

BoS Meeting Minutes of the Programmes offered by the University (2017-22)

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Anite Palie REGISTRAR Centurion University of Technology & Management ODISHA



School of Management

Date: 15.07.2021

MINUTES OF BOARD OF STUDIES MEETING held on 09.07.2021

Venue: Online Zoom Platform

Time: 3.00 pm

The Board of Studies (BoS) meeting of School of Management was held on 01.07.2021 at 3.00 p.m. in the online zoom platform. The following members were participated:

- 1. Dr. Anita Patra, Registrar, CUTM
- 2. Dr. Prasanta Kumar Mohanty, Dean, Academics, CUTM
- 3. Dr. Arup Barman, Professor, Department of Business Administration, Assam University, Silchar
- 4. Mr. Aditya Sapru, Managing Director, Neumck Strategy and Advisory, Bangalore
- 5. Dr. R. Divakar, Center for Agrarian Studies, NIRD&PR, Hyderabad
- 6. Mr. Hemant Pamarthy, Independent Consultant and Former Director Ujjivan MicroFinance
- 7. Dr. Subhendu Mishra, PGP Coordinator, SoM, CUTM
- 8. Dr. Girija Nandini, PGP Coordinator, SoM, CUTM
- 9. Dr. Bibhunandini Das, UGP Coordinator, SoM, CUTM
- 10. Dr. Pramod Kumar Patjoshi, B. Com Program Coordinator, SoM, CUTM
- 11. Dr. Umakanta Nayak, Dean, SoM, CUTM

The Chairperson, CUTM welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dean, SoM presented the achievements and improvements of the School in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 11.07.2020 were confirmed.

Agenda 2: Discussion and approval on revision required in the Curriculum of MBA Program

• The Dean, SoM presented the MBA curriculum based on the feedback and suggestions made by the various stakeholders. Board discussed the curriuculum throughly and approved the existing syllabus without any changes for the academic year 2021-22

Agenda 3: Discussion and approval on revision required in the Curriculum of MBA – RUDM & ABM Program

 MBA – RUDM & ABM curriculum was presented based on the feedback and suggestions made by the various stakeholders. Board discussed the curriculum throughly and approved the existing syllabus without changes for the academic year Year 2021-22.

Agenda 4: Discussion and approval on revision required in the Curriculum of BBA program

• BBA syllabus was presented based on the suggestions made by the various stakeholders. The Board accepted and approved the existing syllabus without changes for the academic year Year 2021-22.

Agenda 5: Discussion and approval on revision required in the Curriculum of B.Com program



- B.Com syllabus revision was presented based on the suggestions made by the various stakeholders. The Board accepted and approved the following changes to curriculum to be implemented from the Academic Year 2020-21 (*Annexure-I*).
 - o New courses were incorporated in baskets after thorough discussion.

Agenda 6: Inclusion of courses on life skills and value addition

Various courses were presented to be offered by the University in the areas of life skills and value addition for the overall improvement and well being of students. The same was agreed upon and approved by the Board members. (Annexure-II)

The Dean, SoM extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean.

Dean School of Management Centurion University, Odisha

Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



Annexure-I

SI. No	Course Title	Type (Skill/Employability/ Entrepreneurship)	Credit
1	Business organization and Management	Employability & Entrepreneurship	4
2	Goods and Services Tax (GST) and Custom Law	Employability & Entrepreneurship	6
3	Banking and Insurance	Employability & Entrepreneurship	6
4	Advance Managerial Accounting	Employability & Entrepreneurship	6
5	Commercial Banking and ALM	Employability	6
6	Security Analysis and Portfolio Management	Employability & Entrepreneurship	6
7	Project Appraisal and Financing	Employability & Entrepreneurship	6
8	Financial Institutions, Markets and Services	Employability & Entrepreneurship	6
9	Investment Banking and Financial Services	Employability	6
10	Environmental Science	Employability and Skill	4
11	Job Readiness	Employability	6

Annexure-II



Skill	Courses	approved	by university
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SI. No.	Course Title	Credit
1	3D Game Art	4
2	Drug Design using Biovia Discovery Studio	4
3	Opthalmic Lens and spectacle manufacturing Techniques	4
4	Medical Diagnostic Techniques_	4
5	Introduction to Aquaponics	4
6	Polyhouse Automation	4
7	Development of Processor (Shakti)	4
8	Spectroscopy	4
9	Extraction Technologies	4
10	Gamified DIY kits using Lasers	4
11	VR Assets Development	4
12	GIS and Remote Sensing: Applications in Participatory Natural Resource Management	4
13	GIS and Remote Sensing: Application Development	4
·14	3D Modelling and Printing	4
15	Brew Master	4

Value Added courses approved by university

	Course Title	Credit
1	Ethical Hacking	30 Hours
2	Clinical Practice	30 Hours
3	Financial Literacy	30 Hours
4	MATLAB	30 Hours
5	MS Excel Basics	30 Hours
6	Pharmaceutical Dry-Lab Techniques	30 Hours
7	Research Methodology and IPR	30 Hours
8	Steps for Career Plan	30 Hours
9	TABLEAU	30 Hours
10	Technical Writing	30 Hours
11	Waste to Wealth	30 Hours
12	Web Development	30 Hours
13	Yoga and Meditation	30 Hours
14	Health and Lifestyle	30 Hours
15	Life Skills and Moral Value Education	30 Hours
16	Ansys	30 Hours
17	Video Making for Youtubers	30 Hours



School of Management

Time: 3.00 p.m.

Date: 09.07.2021

Venue: Online Zoom Platform

Board of Studies Meeting

Attendance Sheet

	L. Cthe Momber	Designation	Signature
<u>Sl.No.</u> 1	Name of the Member Dr. Anita Patra	Registrar, CUTM	Attended Online
2	Dr. Prasanta Kumar Mohanty	Dean, Academics, CUTM	Attended Online
3	Dr. Arup Barman	Professor, Department of Business Administration, Assam University, Silchar	Attended Online
4.	Mr. Aditya Sapru	Managing Director, Neumck Strategy and Advisory, Bangalore	Attended Online
5	Dr. R. Divakar	Center for Agrarian Studies, NIRD&PR, Hyderabad	Attended Online
6	Mr. Hemant Pamarthy	Independent Consultant and Former Director Ujjivan MicroFinance	Attended Online
7	Dr. Subhendu Mishra	PGP Coordinator, SoM, CUTM	Attended Online
8	Dr. Girija Nandini	PGP Coordinator, SoM, CUTM	Attended Online
9	Dr. Bibhunandini Das	UGP Coordinator, SoM, CUTM	Attended Online
10	Dr. Pramod Kumar Patjoshi	B. Com Program Coordinator, SoM, CUTM	Attended Online
-11	Dr. Umakanta Nayak	Dean, SoM, CUTM	Attended Online

Dean, SoM

Dean School of Management Centurion University, Odisha,

Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050



School of Engineering & Technology

Department of Civil Engineering

Date: 11/07/2020

MINUTES OF BOARD OF STUDIES MEETING held on 11/07/2020

Venue:Virtual Mode

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Civil Engineering was held on 11/07/2020, in virtual mode. The following are the members:

1. Dr Vazeer Mahammood, Andhra University College of Engineering, Visakhapatnam, AP, India

2. Dr Debi Prasanna Kanungo, senior professor and scientist CSIR central building research institute

3 Prof. Prafulla Kumar Panda, Internal Expert

4 Prof. Kamal Kumar Barik, Internal Expert

5 Mr Vishal Kumar Singh, Internal Expert

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Civil Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 22/06/2019 were confirmed.

Agenda 2: Credits distributions, courses and baskets layouts, and new inclusions of Smart Basket (Basket-III) Interdisciplinary domains.

The HoD, Civil Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2020-21.

- The Smart stack to be delivered by people from the industry and/or enabling internal faculty members to deliver the industry aligned courses.
- The strategy of keeping at least twenty percent online delivery of courses in the curriculum was appreciated by everyone.
- It was suggested to have more MOUs with academia and industry for effective rollout.
- Everyone appreciated having the "Job Readiness" course of Basket-II as compulsory across branches and also the delivery plan of the course.
- Present final year student welcomed Job readiness component and domain course content.
- The briefing comprised of credits distributions, courses and baskets layouts, and new
- In Basket 4 there are overlaps in construction material testing and concrete technology course
- In Basket 4 mere are overlaps in construction waste materials in construction materials curriculum, also to include recycling of construction waste materials in construction materials testing courses. (Annexure A)



- Rock mechanics and field laboratory test to be included in the geotechnical engineering
- . The domain course should be taught in practice and project mode. .

Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members.(Annexure B).

Agenda 4: Introduced New Course M. Sc Geoinformatics

The committee unanimously decided that, One new course M.Sc Geoinformatics will be introduce under SoAS but the subject should be under Department of Civil Engineering. The syllabus must be CBCS system followed by 96 credits. Aerial Surveying and Remote Sensing Application domain subjects must be inside the syllabus of M.Sc Geoinformatics. The output of the domain must be research papers. This course will float in the next academic year (2021-2022).

The HoD, Department of Civil Engg. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoET

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HoD, Civil Engineering Centurion University of Technology & ManagenCenturion University of Technology & Managemen Dept. of Civil Engineering Bhubaneswar, Khurda, Odisha-752050 HOD Centurion University of Technology & Managuman CoostR

Annexure-A

List of existing courses where syllabus was revised

Centurion UNIVERSITY

Basket/ Semester	Name of Course	No. of Modules/ Fopics revised	Revised Modules/Topics (details)
īv	Geotechnical Engineering	1	One module has been added depending on the industry requirement
īV	Construction Material Testing	2	One module has been added depending on the industry requirement
IV	Structural Detailing and Drawing	2	One module has been added and another module is merged with slight change as per industry requirement
IV	Quantity Estimation & Costing	1	One module has been added depending on the industry requirement
IV	Geometric Modeling	1	One module has been added depending on the industry requirement
IV	Hydrology and Irrigation	1	One module has been added depending on the industry requirement
IV	Surveying Techniques	1	One module has been added depending on the industry requirement
IV	Geospatial Survey	1	One module has been added depending on the industry requirement
IV	Concrete Technology	1	One module has been added depending on the industry requirement
IV	Electrical, Plumbing and Wood	1	One module has been added depending on the industry requirement
IV	Works Design of Structures	1	One module has been added depending on the industry requirement
IV	Road Engineering	1	One module has been added depending on the industry requirement
IV	Construction Materials	1	One module has been added depending on the industry requirement
IV	Water supply and Sanitary	1	One module has been added depending on the industry requirement
IV	Engineering Computer Aided Engineering	2	One module has been added and another module is merged with slight change as per industry requirement
IV	Hydraulic Machinery	2	One module has been added and anothe module is merged with slight change as per industry requirement
IV	Fluid Mechanics with Finite Volume Method	2	One module has been added and anothe module is merged with slight change as per industry requirement
IV	Theories of Failure Using Finite Element Analysis	2	One module has been added depending on the industry requirement
IV	Disaster Preparedness & Plannin Management	g 1	One module has been added depending on the industry requirement

Annexure-B



	Skill courses	Credit	(T+P+P)
Sl. No	Course little	4	0+3+1
	Introduction to Quantum Computing	4	0+3+1
0	Organic Farming	4	0+3+1
	Mushroom Farming	4	0+3+1
	Hydroponics Technology	4	0+3+1
;	Poultry Farming	4	0+3+1
5	Dairy Farming	4	0+3+1
7	Vermicomposting Farming	4	0+3+1
3	Transformer Manufacturing, Repairing	4	
	and Maintenance	4	0+3+1
)	Electrical Installation	4	0+3+1
10	Repair and Maintenance of Home	.	
10	Appliances	4	0+3+1
11	Refrigeration and air conditioning	4	0+3+1
12	Super critical Co2 plant operation	4	0+3+1
13	Business Plan Preparation	4	0+3+1
14	Composite fabrication practice	4	0+3+1
15	Powder coating practice	1 - Contraction of the second	0+3+1
16	Farm appliances operation	4	0+3+1
17	Bio fertilisers preparation	4	0+3+1
18	PCB designing & fabrication	4	0+3+1
19	Introduction to Block Chain Technology	4	0+3+1
20	Introduction to Nutraceuticals	4	0+3+1
21	Introduction to NLP	4	0+3+1
22	Introduction to Computational Biology	4	0+3+1
	Product Life Cycle Management through	4	1+3+1
23	Gate process		0+3+1
24	New material development with Biovia	4	State West and a state of the
25	Spectral image processing using Python	4	0+3+1
26	Satellite data processing	4	0+3+1
20	Working with Graphene and carbon fibr	e 4	0+3+1
17	Adobe Tools and Illustrations	4	0+3+1
28	Digital Painting	4	0+3+1
29 30	Computer Installation and Maintenance	4	0+3+1

List of value added courses

SI.	Course Title	Hrs. of input
No		30
1	Natural Resource Management	30
2	Research Methodology and IPR	
3	Urban Gardens using Hydroponics	30
1	Introduction to Python	30
4		30
5	MATLAB	30
6	Waste to Wealth	- 30
7	Technical Writing	
8	Organic Farming	
9	Disaster Management	
10	Ethical Hacking	30



11	Web Development	30
11		30
12	Food & Nutrition	30
13	Clinical Practice	30
14	Innovation Management	
15	Financial Literacy	30
16	Yoga and Meditation	30
17	Steps for Career Plan	30
	MS Excel Basics	30
18		30
19	Quality Analysis	30
20	Ethical Writing Practice	30
21	Ansys	
22	Video Making for Youtubers	30

List o	f Domain	courses

	offiain courses	Category
51. No.	Name of the Domain	
1	Advance Video Processing, Computer Vision and Machine Learning	A/B/D
2	Aerial Survey and Remote Sensing Applications	A/B
3	Agri Business Management	A/B/D
4	Architectural and Structural Design	A/B
5	Business Analytics	A/B/D
6	Chip Design and Fabrication using VLSI	B
7	Commodity and Food Storage	A/B/D
8	Communication Systems	B
9	Composite Design and Manufacturing	A/B
10	Computational Fluid Dynamics	A/B
11	Cyber Security	В
12	Dairy Processing and Development	A/B
12	Fish Processing Technology	A/B
14	Food Processing	A/B/D
15	· · · · · · · · · · · · · · · · · · ·	A/B/D
16		A
17		A/B/D
18		A/B
19		A
20		В
21		A/C
22		A
23		A/B
24	Renewable Energy Applications	A/B
25	Seed Production using Manual and Molecular	A
26		A/B
27		A/B
28	i dansh Watarshad	A/B



School of Engineering & Technology

Department of Civil Engineering

Time: 11.00 a.m.

Venue: Virtual

Board of Studies Meeting Attendance Sheet

SI. No	Name of the BoS Member (Internal Faculty and External Resource)	Designation	Signature
1	Dr. Vazeer Mahammood	Andhra University College of Engineering, Visakhapatnam, AP, India	Attended Online
2	Dr Debi Prasanna Kanungo	senior professor and scientist CSIR central building research institute	Attended Online
3	Dr Kamal Kumar Barik	Assistant Professor, Civil Engineering, CUTM	Attended Online
4	Dr Prafulla Kumar Panda	Assistant Professor, Civil Engineering, CUTM	Attended Online
5	Mr Vishal Kumar Singh	Professor, Civil Engineering, CUTM	Attended Online

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Dean, SoET

Dean, SOET Centurion University of Technology & Hassement Odisha

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Date: 11/07/2020

Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050



School of Engineering & Technology

Department of Computer Science and Engineering

Date: 11.07.2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Venue: Virtual Mode

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Computer Science and Engineering was held on 11.07.2020 at 11 a.m. in online mode. The following members were present:

- 1. Mr. Pramod Saini, Co-founder of Icalibrator
- 2. Ms. Aruna Saini, Co-founder of Icalibrator
- 3. Prof. Uma Valluri, Ex- Prof., IIIT SriCity
- 4. Dr. Sujata Chakravarty, Associate. Prof., HOD, CSE
- 5. Prof. Sashibhusan Moharana, Asst. Prof., CSE
- 6. Abdul Raheman, Student
- 7. Anshit Ransingh, Alumni(Working as project executive in CUTM)

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Computer Science Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 22/06/2019 were confirmed.

Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Tech, Computer Science Engg.

- The HoD, Computer Science and Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2020-21.
- The syllabus of basket 4, 5 of B. Tech, Computer science and Engg. was considered and approved by the Board. (Annex 1)
- The members of board approved some new domain courses introduced for matching latest industry standard. (Annex 2)



Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annex 3 and Annex 4)

The HoD, Department of Computer Science and Engg. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

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Dean, SoET Dean, Academics HoD, C Dean, SOET Dean Academics Centurion University of Technology & Management Odisha Odisha

HoD, Computer Science & Engineering

HOD CSE Centurion Institute of Technology



Annex 1

SI.	Course Title	Type(Skill/Employability/Entrepreneurship	Credit
No			
1	Data Analysis and Visualisation using Python	Skill and Employability	4
2	Machine Learning using Python	Skill and Employability	4
3	IT Infrastructure Management	Skill and Employability	6
4	Cloud Practitioners	Skill and Employability	2
5	Information Security	Skill and Employability	3
6	OOPs with C ++ Programming	Skill and Employability	4
7	Data Structures using C++	Skill and Employability	4
8	Advanced Web Programming	Skill and Employability	4
9	Java Technologies	Skill and Employability	4
10	Database Creation and Maintenance	Skill and Employability	4
11	Android App Development	Skill and Employability	6
12	Data Science and Machine Learning	Skill and Employability	26
13	Software Technology	Skill and Employability	20
14	Cloud Technology	Skill and Employability	18
15	Wireless Networks	NA	3
16	Database Cluster Administration and Security	NA	4



List of existing	courses	where s	syllabus	was	changed
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Basket/ Semester	Name of Course	No. of Modules/Topics revised
IV	Data Structures using C++	Mod 1: Problem Solving Analysis added
	Operating System Concepts	Mod 1: Concurrent Programming
IV		Mod III The Hierarchical Filesystem, Directory Files and Ordinary Files, The Working Directory, Your Home Directory, Pathnames, Relative Pathnames, Working with Directories, Access Permissions
IV	Android App Development	Mod II



Annex 2

List of Domain Courses offered in 2020-21

Group A : Agriculture/ Agri Engineering/Phyto Pharma/ Dairy Tech/ Fisheries/ Biological Sciences Group B: All other Engineering/Physical and Mathematical Science/Vocational or Skills Group C: Pharmacy and Allied Health

Group D: Management & Media and Communication

S No	Domain Name	Credit	Category
1	Advance Video Processing, Computer Vision and Machine Learning	30	A/B/D
2	Aerial Survey and Remote Sensing Applications	18	A/B
3	Agri Business Management	23	A/B/D
4	Architectural and Structural Design	20	A/B
5	Business Analytics	21	A/B/D
6	Chip Design and Fabrication using VLSI	18	В
7	Commodity and Food Storage	29	A/B/D
8	Communication Systems	18	В
9	Composite Design and Manufacturing	24	A/B
10	Computational Fluid Dynamics	20	A/B
11	Cyber Security	24	В
12	Dairy Processing and Development	28	A/B
13	Fish Processing Technology	29	A/B
14	Food Processing	29	A/B/D



	University	1	
15	Gaming and Immersive Learning (AR & VR)	20	A /D /F
16	Genetic Engineering & Genomics	29	A/B/E A
17	Go-To-Market	22	A/B/D
18	Health Care Assistancy	25	A/B
19	Intensive Aquaculture	29	А
20	Manufacturing Execution System	18	В
21	Nutraceuticals	29	A/C
22	Organic Farming	29	А
23	Protected Horticulture	29	A/B
24	Renewable Energy Applications	22	A/B
25	Seed Production using Manual and Molecular Methods	29	A
26	Smart Agriculture	29	A/B
27	Smart Farm Machinery	28	A/B
28	Soil and Water Conservation through Watershed	28	A/B



Annex 3

List of skill Courses offered in the Year 2020-21

S No	Course Name	Course Code	Credit
1	Introduction to Quantum Computing	CUTM3079	4
2	Organic Farming	CUTM3081	4
3	Mushroom Farming	CUTM3082	4
4	Hydroponics Technology	CUTM3083	4
5	Poultry Farming	CUTM3084	4
6	Dairy Farming	CUTM3085	4
7	Vermicomposting Farming	CUTM3086	4
8	Transformer Manufacturing, Repairing and Maintenance	CUTM3087	4
9	Electrical Installation	CUTM3089	4
10	Repair and Maintenance of Home Appliances	CUTM3090	4
11	Refrigeration and air conditioning	CUTM3091	4
12	Super critical Co2 plant operation	CUTM3092	4
13	Business Plan Preparation	CUTM3095	4
14	Composite fabrication practice	CUTM3098	4
15	Powder coating practice	CUTM3099	4
16	Farm appliances operation	CUTM3100	4
17	Bio fertilisers preparation	CUTM3103	4
18	PCB designing & fabrication	CUTM3104	4
19	Introduction to Block Chain Technology	CUTM3105	4
20	Introduction to Nutraceuticals	CUTM3106	4
21	Introduction to NLP	CUTM3107	4
22	Introduction to Computational Biology	CUTM3108	4
23	Product Life Cycle Management through Gate process	CUTM3109	4
24	New material development with Biovia	CUTM3110	4
25	Spectral image processing using Python	CUTM3111	4
26	Satellite data processing	CUTM3112	4
27	Working with Graphene and carbon fibre	CUTM3113	4
28	Adobe Tools and Illustrations	CUTM3114	4
29	Digital Painting	CUTM3115	. 4
30	Computer Installation and Maintenance	CUTM3120	4



List of Value Added Courses added in 2020-21

	Name of the value added courses (with 30 or more contact hours)offered	Course Code	Duration of course
S No			
1	Natural Resource Management	CUVA0067	30 Hours
2	Research Methodology and IPR	CUVA4009	30 Hours
3	Urban Gardens using Hydroponics	CUVA0044	30 Hours
4	Introduction to Python	CUVA0046	30 Hours
5	MATLAB	CUVA4035	30 Hours
6	Waste to Wealth	CUVA4029	30 Hours
7	Technical Writing	CUVA4023	30 Hours
8	Organic Farming	CUVA0043	30 Hours
9	Disaster Management	CUVA0022	30 Hours
10	Ethical Hacking	CUVA4013	30 Hours
11	Web Development	CUVA4012	30 Hours
12	Food & Nutrition	CUVA0047	30 Hours
13	Clinical Practice	CUVA4002	30 Hours
14	Innovation Management	CUVA0048	30 Hours
15	Financial Literacy	CUVA4038	30 Hours
16	Yoga and Meditation	CUVA4021	30 Hours
17	Steps for Career Plan	CUVA4018	30 Hours
18	MS Excel Basics	CUVA4010	30 Hours



19	Quality Analysis	CUVA4001	30 Hours
20	Ethical Writing Practice	CUVA4031	30 Hours
21	Ansys	CUVA4044	30 Hours
22	Video Making for Youtubers	CUVA4016	30 Hours



School of Engineering & Technology

Department of Computer Science and Engineering

Time: 11.00 a.m.

Date: 11.07.2020

Venue: Online

Board of Studies Meeting

Attendance Sheet

List of Members present

SI. No.	Name	Organization	Signature
1	Mr. Pramod Saini	Co-founder of Icalibrator	Attended online
2	Ms. Aruna Saini	Co-founder of Icalibrator	Attended online
3	Prof. Uma Valluri	Ex- Prof., IIIT SriCity	Attended online
4	Dr. Sujata Chakravarty	HOD, CSE	Attended online
5	Prof. Sashi Bhushan Maharana	Asst. Prof. , CSE	Attended online
6	Abdul Raheman	Student	Attended online
7	Anshit Ransingh	Alumni(Working as project executive in CUTM)	Attended online
8	Dr. Prasant Kumar Mohanty	Dean, SoET	Attended online

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Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Cdisha-752050



School of Engineering & Technology

Department of Electrical & Electronics Engineering

Date: 11.07.2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Venue: Virtual Mode

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of EFE was held on 11.07.2020 at 11 a.m. in the Room No.-104, CUTM Bhubaneswar. The following are the Board members:

- 1. Prof. (Dr.) Radhakant Padhi, Honorary Provost, CUTM
- 2. Prof. (Dr.) Jharna Majumdar, Prof. of Eminence, CUTM
- 3. Prof. Jagannath Padhi, Director, CUTM
- 4. Prof. (Dr.) Prasant Kumar Mohanty, Dean, SoET, CUTM
- 5. Prof. (Dr.) Ashish Ranjan Dash, Associate Dean, CUTM
- 6. Prof. (Dr.) Sudhansu Kumar Samal, HOD, EEE, CUTM
- 7. Prof. (Dr.) P. K. Hota, Professor, EE, VSSUT, Burla
- 8. Mr. P. K. Pradhan, Ex- Director (Commercial), GRIDCO; Ex-CEO, WESCO

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of EEE presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 22.06.2019 were confirmed.

Agenda 2: Discussion and approval on any revision required in the Curriculum of B. Tech, EEE.

The HoD, EEE gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2018-19.

- 1. Renaming of subjects from all the baskets were done as per industry demand
- 2. All the course contents were changed by giving more importance to software simulations which are useful for doing research in higher education
- 3. Faculties were asked to complete various online courses offered from NPTEL, UDEMY, Coursera etc. to enhance their knowledge to teach the new restructured courses.
- 4. The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component. List of new courses added in *(Annexure A.)*
- 5. The Board approved the changes suggested in the Distributed Generation & Microgrid, Power System Protection as per the latest Software and technology being used by the industry. List of existing courses where syllabus was revised in. (*Annexure B*)



Discussion and approval on any revision required in the Curriculum of M.Tech, Power System & Control.

As there was a complete revision of the syllabus of M.Tech program in Power system & control in previous academic session, No change was suggested.

Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure C)

Agenda 4:

Basket 3 syllabus got completely changed as per present industrial requirement. More emphasis was given on practice and project and less importance on theory content. All circuit branch faculties were asked to teach these advanced subjects.

The HoD, Department of EEE extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SOET Dean, SOET Centurion University of Technology & Manager Odisha

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Dean, Academics Dean - Academic ---Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050

Department



Annexure-A

SI. No.	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Electromagnetic Field Theory and Transmission Line	Skill development	3
2	Network Analysis	Employability	3
3	Energy Production & Transmission	Skill development	3
4	Substation Switch gear & Protection	Skill development	4
5	System Modeling and Control	Skill development	4
6	Electrical Machines Operation and Control	Skill development	4
7	Industrial Power Electronics	Skill development	4
8	Digital Measurement and Instrumentation	Skill development	3
9	Basic Electrical Engineering	Skill development	2
10	Introduction to Industrial Automation	Skill development	1
11	Advanced Programming & Control Blocks of PLC	Skill development	3

		Centurion	
12	Control & Signal Wiring of PLC	Skill development	2
13	SCADA based advanced features	Skill development	2
14	SCADA & PLC based sequential control	Skill development	1
15	Human Machine Interface	Skill development	3
16	OPC server base data fetching & control	Skill development	2
17	Project	Skill development	6
18	Internship	Skill development	4
19	Introduction, Power Scenario, Power Quality & Fault clearance	Skill development	2
20	Switchyard & substation Networks	Skill development	3
21	Protection scheme & Switchgear	Skill development	3
22	Cable system & Testing	Skill development	3
23	Power Markets	Employability	1
24	Grid Safety	Skill development	2
25	Transformer Manufacturing	Skill development	6
26	Project	Skill development	4

		Centurion	
27	Materials for Renewable Energy applications	Skill development	2
28	Renewable Energy Technology for Industrial Process	Skill development	3
29	Micro-grid Design & Implementation	Skill development	2
30	Hybrid Renewable Energy Systems	Skill development	3
31	Solar Off-grid Entrepreneur	Skill development	2
32	Project	Skill development	6
33	Internship	Skill development	4
34	Soft Computing Techniques - I	Skill development	2
35	Electrical Circuit Drawing (Using Auto CAD)	Skill development	2
36	Linear Integrated Circuits & Application	Employability	3
37	Micro Controllers for Industrial Application (PIC)	Skill development	4
38	Power Quality and FACTS	Skill development	3
39	Soft Computing Techniques - II	Skill development	3
40	Basic Electrical Maintenance	Skill development	3
41	Automotive Electrician	Skill development	3
42	Advanced Power Electronics	Skill development	5



43	Electrical Drives	Skill development	5
44	Advance Control System	Skill development	5



Annexure-B

List of existing courses where syllabus was changed

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
IV	Network Analysis	*	Practice • Incidence Matrix Formulation • Tie-set Matrix Formulation • Cut-set Matrix Formulation • Analysis of transient characteristics using Matlab • AC and DC transient response analysis for RL,RC and RLC circuits • Design and frequency response analysis of Low Pass filter • Design and frequency response analysis of High Pass filter • Design and frequency response analysis of Band Pass filter • Design and frequency response analysis of Band Pass filter • Design and frequency response analysis of Band Pass filter • Design and frequency response analysis of Band elimination filter • Fourier series expansion of Square wave • Fourier series expansion of Sine wave
	Energy Production & Transmission	7	 Practice: 1. Schematic Layout design Thermal Plant using AutoCac 2. Schematic Layout design Nuclear Plant using AutoCad 3. Schematic Layout design of Hydro Plant using AutoCad 4. Preparation of Load calculator using MATLAB 5. Designing of transmission line parameters using MATLAB 6. Designing of Insulators and calculation of voltages using MATLAB 7. Designing of Cables
	Substation Switch gear & Protection		 Practice: 1. Layout Designof 220KV substation using MATLAB 2. Layout Design of 400KV & 750KV substation using MATLAB as per IEEE standards 3. Maintenance tests of CT & PT of substation as per manufacturers Hand book 4. Maintenance tests of Lightening Arrestor & Circuit Breaker of substation as per manufacturers Hand book 5. Maintenance tests of transformer as per

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		 manufacturers Hand book 6. Design of Protection Scheme using MATLAB 7. Design & simulation of Circuit breaker using 3DS Tools Project: 1. Analysis of critically operating power system using MATLAB/DYMOLA
System Modeling and Control	7	 Practice: Hardware/MATLAB 1. Study of Temperature control system 2. Using MATLAB, find the poles, zeros, gain and draw the pole-zero plot of the transfer function. 3. Using MATLAB, find the transfer function from given block diagram. 4. Standard Test Signals 5. Time response of first order systems to unit step and unit ramp inputs 6. Time Response of Second order systems to unit step input 7. Using MATLAB, determine the steady state error of the given system. 8. Construct the root locus for 2nd&3rd order system and analyze its stability (Gain) 9. Construct the bode plot for 2nd and 3rdorder system and analyze its stability (PM & GM) 10. Design of P,PD, PI and PID Controller for 2ndor 3rdorder system
Electrical Machines Operation and Control	1	 Theory Stepper motor drive, basic principles involved in stepper motor control, stepper motor specification, operation and commercial driver chips and packages, Brushless DC Motors, Reluctance Motor, Hysteresis Motor Application in Medical, Automobile, Civil, Electrical etc Practice: 4) Motor Voltage and Current Measurement. 5) ON-Load Tap changer

1		Centur	ion
	Industrial Power Electronics	7	 Simulation of V-I characteristics of power diode & power transistor. Simulation of V-I characteristics of MOSFET& IGBT. Simulation of V-I characteristics of silicon-controlled rectifier. Simulation of R and RC triggering. Simulation of UJT triggering Simulation of single phase half-wave and full-wave diode rectifier using R & L load. Simulation of single phase fully controlled converter using R & L load. Simulation of 3-phase semi converter using R-L load. Simulation of 3-phase semi converter with R, R-L and dc motor load with/without freewheeling diode. Simulation of boost converter. Simulation of boost converter. Simulation of single-phase inverter&three phase inverter. Simulation of single phase inverter&three phase inverter. Simulation of single phase inverter&three phase inverter. Simulation of converter fed dc drives (Wind Turbines). Simulation of induction motor drives (e-Vehicle). Simulation of railway electrification system using Dymola



500 VA Sine wave Inverter

Industrial Battery Charger using SCR

Precision Illumination control of Lamp

Dual Converter using Thyristors

Digital Measurement and Instrumentation	7	Module I Philosophy of digital measurements Module II Digital frequency measurement techniques Module III

/		100	· ·
		· Centur	ion
	1	UNIVI R	Digitally Programmable Circuits
			Module IV
			Digital to Analog Converters
			Module V
			Digital Voltage Measurement Techniques
			Module VI
			Digital Instrument
			Module VII:
			Signal Generator, Analyzersand Oscilloscopes
,		7	
			 Design and Analysis of Basic electrical circuits using Dymola. Plotting the V-I Characteristics of Incandescentian lamp using Dymola. Verification of KCL and KVL in series and parallel circuit using Dymola.
	Basic Electrical		 Analysis of Thevenin's and Norton's theorem. 3. Verification of Thevenin's and Norton's theorem using Dymola. Solenoids and field coils. Application of solenoids in
- - - -	Engineering		different circuits in Automobiles and in electrical circu Study of Transformers, Linear Transformer Model, Ide Transformer Model, No-load Loss and Load-loss Calculation.
			Calculation. Calculation of current, voltage, power & power factor series RLC circuit excited by 1-Ø A.C Supply using Dymola.
			Measurement of power and power factor in a 3-Ø AC circuit by (one, two and three) wattmeter using Dymo
V		1	SCADA BASED ADVANCED FEATURES 4.1 Alarms
	SCADA based		4.2 Trends, Data base connectivity & Report generat4.3 Recipe management
	advanced features		4.4 Security Practice:
	reactives		P4.1 - Data fetching and representing on graph and excel
			P4.2 - Advanced controlling of industry by using SCA
	SCADA & PLC	1	SCADA & PLC BASED SEQUENTIAL CONTROL
	based		5.1 Script 5.2 Networking
	sequential		



	1	UNIVERSITY
		Practice: P5.1 Script P5.2 Networking P5.3 Device connectivity
OPC server base data fetching & control	1	 OPC SERVER BASE DATA FETCHING & CONTROL 7.1 Study of Open Platform Communications 7.2 OPC to control PLC, SCADA. 7.3 OPC based different protocol concept. 7.4 Data handling using OPC. Practice: P7.1 Installation of OPC P7.2 OPC protocols P7.3 Connectivity of PLC, SCADA & ARDUINO to OPC.
Introduction, Power Scenario, Power Quality & Fault clearance.	7	Generation, Transmission & Distribution scenario in India, Hydro Power Generation [Lab Practice in Own Distribution Network, Modeling], Thermal Power Generation [Field Visit+ Lab Practice in Own Distribution Network], Renewable Energy Sources [Visit to Standard Testing Lab, Workshop Practice, & Maintenance], Energy Conservation, Electricity Costing & Audit, Future of Energy
Switchyard & substation Networks	7	Switchyard system, Switchyard/Substation Types, System Networking, Busbar Electrical System, Layout plan, Safety Norms, & Isolation, Locking & Tagging
Protection scheme & Switchgear	7	System Protection Schemes, IDMT Protection, Distance Protection, Busbar Protection, Switchgears, Safety Norms, & CT-PT, Locking & Tagging
Cable system & Testing	7	General Cable System, 3 Phase cable system, Cable Protection, Cable Testing, Cable Jointing, Safety Norms, & Cable, Cable Layout
Power Markets	7	Market Schemes, Market Framework, Market Operation, Channeling, Power Evacuation, Costing, Modeling
Grid Safety	7	Safety Practice, Safety Framework, Fire Safety Operation, Electrical Safety, Safety Equipments, PPE, Safety Drill
Transformer Manufacturing & Testing	7	About Transformer, Manufacturing Process, Transformer Operation, Electrical Safety in Testing, Testing Equipments, Type Test, Routine Test
Renewable Energy Technology for Industrial Process	5	Module 1 Overview of Renewable Energy technology Module 2 Solar PV technology Module 3 Wind energy technology Module 4 Bio-energy technology Module 5 Solar Thermal Technology
Materials for Sustainable Energy Applications	3	Module 1 Basic fundamentals of different types semiconductors Module 2 Efficiency calculation of solar cell Module 3 Perovskite based solar cell
Microgrid Design and	4	Practice 1: Site survey (1 kW or 1MW) Practice 2: Sizing of micro grid system (1kW/1MW)

/		Ce	nturion
	Implementation		 Practice 3: Single line diagram of micro grid system Practice 4: Identify and specify different components used in a micro grid system Practice 5: Connection practice of solar modules in a micro grid system Practice 6: Designing of micro grid system Practice 7: Analysis of micro grid system Practice 8: Designing of micro grid system with battery storage Practice 9: Performance calculation of micro grid system Practice 10: Connection practice of CCR/Inverter in a micro grid system Practice 11: Test, record and verify the power quality of a micro grid system Practice 12: O & M of micro grid system
	Hybrid Renewable Energy Systems	4	Module 1 Hybrid Power systems Module 2 Solar PV and Thermal (Solar PVT) system Module 3 Photovoltaic and wind system Module 4 Photovoltaic and Hydro system
	Solar Off-Grid Entrepreneur	3	Module 1 Government Scheme and Subsidy Module 2 Costing of Solar components and selection criteria Module 3 Business development for solar energy customers



Annexure-C

List of Skill courses (Basket) approved

SI. No.	Course Title	Credit
1	Introduction to Quantum Computing	
2	Organic Farming	
3	Mushroom Farming	4
4	Hydroponics Technology	
5	Poultry Farming	
6	Dairy Farming	4
7	Vermicomposting Farming	4
8	Transformer Manufacturing, Repairing and Maintenance	
9	Electrical Installation	
10	Repair and Maintenance of Home Appliances	
11	Refrigeration and air conditioning	
12	Super critical Co2 plant operation	4
13	Business Plan Preparation	4
14	Composite fabrication practice	4
15	Powder coating practice	4
16	Farm appliances operation	4
17	Bio fertilisers preparation	
18	PCB designing & fabrication	4
19	Introduction to Block Chain Technology	4
20	Introduction to Nutraceuticals	4
21	Introduction to NLP	+
22	Introduction to Computational Biology	4
23	Product Life Cycle Management through Gate process	4
24	New material development with Biovia	4



25	Spectral image processing using Python	4
26	Satellite data processing	4
27	Working with Graphene and carbon fibre	4
28	Adobe Tools and Illustrations	-4
29	Digital Painting	4
30	Computer Installation and Maintenance	- +

List of Domain courses approved

SI. No	Domain Course Title	Credit	(T+P+P)
1	Industrial Automation	24	5+9+10
2	Operation & Maintenance of Electrical Grid System & Transformers	24	6+14+4
3	Embedded System Design	18	3+9+6
4	Renewable Energy Applications	22	4+8+10

List of value added courses approved

SI. No	Course Title	Hrs. of input
1	Natural Resource Management	30 Hours
2	Research Methodology and IPR	30 Hours
3	Urban Gardens using Hydroponics	30 Hours
4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organic Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	30 Hours
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
15	Financial Literacy	30 Hours
16	Yoga and Meditation	30 Hours
17	Steps for Career Plan	30 Hours
18	MS Excel Basics	30 Hours
19	Quality Analysis	30 Hours
20	Ethical Writing Practice	30 Hours
21	Ansys	30 Hours
22	Video Making for Youtubers	30 Hours



School of Engineering & Technology Department of EEE

Time: 11.00 a.m. Venue: Virtual Mode

Date: 11.07.2020

Board of Studies Meeting

Attendance Sheet

SI. No	Name of the BoS Member(Internal Faculty and External Resource)	Designation	Signature
1.	Prof. (Dr.) Radhakant Padhi	Honorary Provost, Centurion University of Technology and Management	Attended online
2.	Prof. (Dr.) Jharna Majumdar	Prof. of Eminenc, Centurion University of Technology and Management	Attended online
3.	Prof. Jagannath Padhi	Director, Centurion University of Technology and Management	Attended online
4.	Prof. (Dr.) Prasant Kumar Mohanty	Dean, SoET, Centurion University of Technology and Management	Attended online
5.	Prof. (Dr.) Ashish Ranjan Dash	Associate Dean, SoET, Centurion University of Technology and Management	Attended online
6.	Prof. (Dr.) Sudhansu Kumar Samal	HOD, EEE, Centurion University of Technology and Management	Attended online
7.	Prof. (Dr.) P. K. Hota	Department of Electrical, VSSUT, Burla	Attended online
8.	Mr. P. K. Pradhan	Ex- Director (Commercial), GRIDCO; Ex-CEO, WESCO	Attended online

< 0 Sas Dean, Academics Dean - Academic Centurion University of Technology & Management



School of Engineering & Technology

Department of Mechanical Engineering

Date: 11/07/2020

MINUTES OF BOARD OF STUDIES MEETING held on 11/07/2020

Virtual Mode

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Mechanical Engineering was held on 11/07/2020 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the members:

1. Dr. Srinivasa Rao Perla, Global training Head-Cyient

2. Dr. U. Chandrasekhar, WIPRO 3D

3. Prof. S. S. Mohapatra, NIT Rourkela

4. Dr. A.M Mohanty, Pro VC, CUTM

5. Dr. R.C Mohanty, Professor, SoET, Mechanical Engg.

6. Prof. Prajna Paramita Debata, HoD, Mechanical Engg.

7. Mr. Hari Krishna, Final year student (placed in Byjus through campus recruitment)

8. Mr. Saubhagya Ranjan Parida, Alumni (Working in Federal Bank)

9. Mr. Abhisek Chinara, Alumni (Working in Tata Motors)

10. Mr. Rama Mohan, Parent

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Mechanical Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 22/06/2019 were confirmed.

Agenda 2: Credits distributions, courses and baskets layouts, and new inclusions of Smart Basket (Basket-III) Interdisciplinary domains.

The HoD, Mechanical Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2020-21.

- The Smart stack to be delivered by people from the industry and/or enabling internal faculty members to deliver the industry aligned courses.
- The strategy of keeping at least twenty percent online delivery of courses in the curriculum was appreciated by everyone.



- It was suggested to have more MOUs with academia and industry for effective rollout.
- Everyone appreciated having the "Job Readiness" course of Basket-II as compulsory across branches . and also the delivery plan of the course.
- For two courses, syllabus is to be trimmed off. To start Masters Course in Additive manufacturing with help of Industry professionals.
- Present final year student welcomed Job readiness component and domain course content.
- List of new courses added in (Annexure A.)
- The briefing comprised of credits distributions, courses and baskets layouts, and new inclusions such • as the Smart Basket (Basket-III) Interdisciplinary domains etc.
- Discussion on modification of syllabus of Basket- 4,5 •
- The domain course should be taught in practice and project mode. •

Agenda 3: Discussion on modification of syllabus of Basket- 4, 5

The Board approved the changes suggested in the Domain -Manufacturing (Conventional, CNC and Additive), Domain - Welding and Inspection, Domain -Automobile Engineering, Domain -Computational Fluid Dynamics as per the latest Software and technology being used by the industry. List of existing courses where syllabus was changed in (Annexure B)

Agenda 4: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members.(Annexure C)

The HoD, Department of Mechanical Engg. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoET Dean, SOET Odisha

Dear, Academics

Dean - Academic Centurion University of Technology & Management Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050

HoD, Mechanical Engineering



Annexure-A

SI. No	ew courses added Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Computer Aided Drafting	Skill and Employability	3
2	Product Design and Development	Skill and Employability	2
3	Reverse Engineering and Rapid Prototype	Skill and Employability	4
4	Product Life Cycle Management	Skill and Employability	2
5	Manufacturing Process- process planning and Heat Treatment	Skill and Employability	3
6	Material in product design and development	Skill and Employability	2
7	Computer Aided Engineering	Skill and Employability	3
8	Quality Assurance	Skill and Employability	2
9	Applied Ergonomics	Skill and Employability	2
10	Computer Aided Manufacturing	Skill and Employability	2
11	CNC Programming & CNC Machining	Skill and Employability	2
12	Design of Tools, Jigs and Fixtures	Skill and Employability	3
13	Advance Metrology	Skill and Employability	2
14	Thermodynamics	Skill and Employability	3
15	Fluid Mechanics with Finite Volume Method	Skill and Employability	3
16	Hydraulic Machinery	Skill and Employability	2
17	Theory of Machines	Skill and Employability	3
18	Heat Transfer with FDM/FVM	Skill and Employability	3
19	Theories of Failure Using Finite Element Analysis	Skill and Employability	4
20	Optimization Techniques	Skill and Employability	2
21	Programming in Java (Same as Java Technologies)	Skill and Employability	3
22		Skill and Employability	3



Annexure-B

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
1	Domain - Manufacturing (Conventional, CNC and Additive)	1	Course type was changed with little modification in content.
2	Domain - Welding and Inspection	1	Course type was changed with little modification in content.
3	Domain - Automobile Engineering	2	Some practices have been included
4	Domain - Computational Fluid Dynamics	1	Course name was been changed with little modification in content.

List of existing courses where syllabus was changed



Annexure-C

List of Skill courses

SI. No	Course Title	Credit	(T+P+P)
1	Introduction to Quantum Computing	4	0+3+1
2	Organic Farming	4	0+3+1
3	Mushroom Farming	4	0+3+1
4	Hydroponics Technology	4	0+3+1
5	Poultry Farming	4	0+3+1
6	Dairy Farming	4	0+3+1
7	Vermi composting Farming	4	0+3+1
8	Transformer Manufacturing, Repairing and Maintenance	4	0+3+1
9	Electrical Installation	4	0+3+1
10	Repair and Maintenance of Home Appliances	4	0+3+1
11	Refrigeration and air conditioning	4	0+3+1
12	Super critical Co2 plant operation	4	0+3+1
13	Business Plan Preparation	4	0+3+1
14	Composite fabrication practice	4	0+3+1
15	Powder coating practice	4	0+3+1
16	Farm appliances operation	4	0+3+1
17	Bio fertilizers preparation	4	0+3+1
18	PCB designing & fabrication	4	0+3+1
19	Introduction to Block Chain Technology	4	0+3+1
20	Introduction to Nutraceuticals	4	0+3+1
21	Introduction to NLP	4	0+3+1
22	Introduction to Computational Biology	4	0+3+1
23	Product Life Cycle Management through Gate process	4	0+3+1
24	New material development with Biovia	4	0+3+1
25	Spectral image processing using Python	4	0+3+1
26	Satellite data processing	4	0+3+1
27	Working with Graphene and carbon fibre	4	0+3+1
28	Adobe Tools and Illustrations	4	0+3+1
29	Digital Painting	4	0+3+1
30	Computer Installation and Maintenance	4	0+3+1



List of Domain courses

SI. No	Domain Course Title	Credit	(T+P+P)
1	Composite Design and Manufacturing	24	6+12+6

List of value added courses

SI. No	Course Title	Hrs. of input
1	Natural Resource Management	30
2	Research Methodology and IPR	30
3	Urban Gardens using Hydroponics	30
4	Introduction to Python	30
5	MATLAB	30
6	Waste to Wealth	30
7	Technical Writing	30
8	Organic Farming	30
9	Disaster Management	30
10	Ethical Hacking	30
11	Web Development	30
12	Food & Nutrition	30
13	Clinical Practice	30
14	Innovation Management	30
15	Financial Literacy	30
16	Yoga and Meditation	30
17	Steps for Career Plan	30
18	MS Excel Basics	30
19	Quality Analysis	30
20	Ethical Writing Practice	30
21	Ansys	30
22	Video Making for Youtubers	30



School of Engineering & Technology

Department of Mechanical Engineering

Time: 11.00 a.m.

Date: 11/07/2020

Venue: Board Room, CUTM, Bhubaneswar

Sl. No.	Name of the BOS Member(Internal Faculty and External Resource)	Designation	Signature
1	Prof. S.S. Mohapatra	Professor, NIT Rourkela	Attended Online
2	Dr. A.M Mohanty	PRO VC,CUTM	Attended Online
3	Dr. P.K. Mohanty	Dean Academic	Attended Online
4	Dr. R.C Mohanty	Professor,SOET,Mechanical	Attended Online
5	Prof. Prajna Paramita Debata	HOD, Mechanical	Attended Online
6	Mr. Hari Krishna	Final year student (placed in Byjus through campus recruitment)	Attended Online
7	Saubhagya Ranjan Parida	Alumni(Working in Federal Bank)	Attended Online
8	Abhisek Chinara	Alumni(Working in Tata Motors)	Attended Online
9	Mr. Rama Mohan	Parent	Attended Online

Board of Studies Meeting Attendance Sheet

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Dean, SOET Dean, SOET Centurion University of Technology & Management Odisha

Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Coisna-752050



School of Agricultural and Bio-Engineering

Department of Agricultural Engineering

Date: 11/07/2020

MINUTES OF BOARD OF STUDIES MEETING held on 11/07/2020

Virtual Mode

Time: 12.00 p.m.

The Board of Studies (BoS) meeting of Department of Agricultural Engineering was held on 11/07/2020 at 12 p.m. in online mode (due to the continuing Covid-19 Pandemic). The following members are present during the meeting.

- 1. Dr. Prasanta Kumar Mohanty, Dean Academics, CUTM
- 2. Dr. Sivala Kumar, Dean SoABE, CUTM
- 3. Dr. Khalid Khan, Retd Dean, OUAT
- 4. Mr. Bharat Agrawal, CEO, ABS KRISHI UDYOG, Odisha
- 5. Dr. Gitanjali Behera, HOD, Agricultural Engineering, CUTM
- 6. Dr. Prasanta Kumar Choudhury, Head Dairy Technology, SoABE, CUTM
- 7. Dr. Bhisma Narayan Rath, Head Phytopharmaceuticals, SoABE, CUTM
- 8. Dr. S. P. Nanda, Dean Administration, MSSSoA, CUTM
- 9. Dr. Devendra Reddy, Dean Academics, MSSSoA, CUTM

Dean SoABE have given a presentation on course structure of Agriculture Engineering. There was a thoroughly discussion on the syllabus of Agricultural Engineering and **te** following feedback was suggested by the Experts.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 22/06/2019 were confirmed.

Agenda 2: Revision of Curriculum for the programme B. Tech AG

- It was discussed and decided to follow the CBCS structure of 5 Basket systems of Syllabus of School of Engineering & Technology in the B. Tech Agriculture programme.
- Dr. Khalid Khan: A lot of emphasis has been given to Foundation course which will help the foundation knowledge building of Agricultural Engineering students. Now Agricultural engineering is going to play a vital role for post-COVID scenario. The curriculum designed by the Centurion University will surely help students for preparing for the future. The new syllabus contains all of core courses and foundation courses. One core agricultural engineering course is missing in Basket-4.B that is Post-harvest engineering of cereal, pulses and oil seeds which should be a compulsory course for students doing graduation in agricultural Engineering. Other courses like Engg. Properties of Agricultural Produce, Agricultural Structures & Environmental Control which involves so many components will be difficult to complete the course within 1-0-1 credit hour. Or else, the course has



been designed as per academic and industry's needs. Dean SoABE clarified the experts that the Course titled Post-harvest engineering of cereal, pulses and oil seeds is included in the domain course. Also, the courses like Engg. Properties of Agricultural Produce, Agricultural Structures & Environmental Control can be completed in 1-0-1 credit as the session plan has been designed in courseware as per the time allotment and will be justify all components present in the syllabus.

• Industry Expert: The department have taken up everything in the course syllabus to graduate a best student from the University. The student should be exposed to more field visit and industrial visit, so that the outcome will be best. Dean SoABE explained that we have already taking our students to field and industry visit to have a better practical understanding of the subjects.

Agenda 3: Discussion on modification of syllabus of Basket- 4, 5

The Board approved the changes suggested in the core courses. List of new courses is given in Annexure A and existing courses where syllabus was changed in (Annexure B)

Agenda 4: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure C)

The Dean, SoABE, extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

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Dean, SoABE

Jona

Dean', Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Cdisha-752050

Gitanjali

HoD, Agricultural Engineering



Annexure-A

Sl. No	Course Title	Type(Skill/Employab ility/Entrepreneurshi p	Credit
1	Differential Equations and Laplace Transformation	Skill	3
2	Linear Algebra & Vector Calculus	Skill	3
3	Complex Analysis, Numerical Methods	Skill	3
4	Discrete Mathematics	Skill	3
5	Probability & Statistics	Skill	3
6	Mechanics for Engineers	Skill	3
7	Optics and Optical Fibres	Skill	3
8	Applied Analytical Chemistry	Skill	3
9	Applied Engineering Materials	Skill	3
10	Environmental Studies	Entrepreneurship	2
11	Optimisation Techniques	Employability	2
12	Engineering Economics and Costing	Entrepreneurship	3
13	Project Management	Entrepreneurship	3
14	Gender, Human Rights and Ethics	Employability	3
15	Climate Change, Sustainability and Organisation	Employability	3
16	Job readiness	Skill	6
17	Industrial IOT and Automation	Employability	6
18	Data Analysis and Visualisation using Python	Entrepreneurship	4
19	Machine Learning using Python	Entrepreneurship	4
20	Robotic automation with ROS and C++	Employability	4
21	Design Thinking	Employability	2
22	System Integration with DYMOLA	Employability	2
23	Smart Engineering Project (G2M)	Employability	3
24	Theory of failure analysis using FPA	Employability	4
25	Computer Aided Engineering	Employability	3
26	Theory of Machine	Employability	3
27	Heat Transfer with FVM	Entrepreneurship	3
28	Fluid Mechanics with FVM	Skill	3
29	Hydraulic machinery	Skill	2
30	Thermodynamics	Employability and skill development	3
	Electrical Machines Operation and Control	Employability and skill development	4
32	Digital Measurement & Instrumentation	Employability	3



33	Optimisation Techniques	Skill	2
34	Geotechnical Engg.	Employability	3
35	Design of structures	Skill	4
36	Digital Signal & Image Processing	Skill	3
37	Quantity Estimation and Costing	Employability	3
38	Sensor, Actuators and Robot Operating Systems	Skill	4
39	Farm Machinery Design	Employability	3
40	Piloting a Drone	Employability	3
41	PLM using Dassault Tools	Skill	3
42	Testing of Farm Machinery	Employability	3
43	Project and internship	Skill	10
44	Rainwater Harvesting and Artificial Recharge	Employability	3
45	Integrated watershed management	Employability	3
46	Sustainable Watershed	Employability	3
47	R programming in watershed hydrology	Skill	3
48	Modelling and Simulation of Watershed Processes	Employability	3
49	Geo-spatial application in watershed management	Employability	3
50	Project and internship	Employability	10
51	Processing Technology of Cereals and Millets	Employability	3
52	Processing Technology of Legumes and Oilseeds	Skill	3
53	Processing Technology of Fruits, Vegetables, Spices and Condiments	Skill	3
54	Product Development and Packaging Technologies	Skill	3
55	Food Standards and Regulations and HACCP Systems	Employability	3
56	Sensory Evaluation and Nutritional Labelling of Foods	Skill	3
57	AELP Linked Project and Internship	Employability	11



Annexure-B

List of existing courses where syllabus was changed

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
1	Post-Harvest Engineering of Horticultural Crops	1	Credits modified
2	Principles of Agronomy	1	Aligned with Fundamentals of Agronomy
3	Principles of Soil Science	1	Aligned with Fundamentals of Soil Science
4	Principles of Horticultural Crops and Plant Protection	1	Aligned with Fundamentals of Horticulture
5	Soil and Water Conservation Engineering and Water Harvesting and Soil Conservation Structures	2	The both course was merged into Soil- Water Conservation Engineering and Structure, the credit was modified to 4 credits



Annexure-C

List of Skill courses

Sl. No	Course Title	Credit	(T+P+P)
1	Introduction to Quantum Computing	4	0+3+1
2	Organic Farming	4	0+3+1
3	Mushroom Farming	4	0+3+1
4	Hydroponics Technology	4	0+3+1
5	Poultry Farming	4	0+3+1
6	Dairy Farming	4	0+3+1
7	Vermi composting Farming	4	0+3+1
8	Transformer Manufacturing, Repairing and Maintenance	4	0+3+1
9	Electrical Installation	4	0+3+1
10	Repair and Maintenance of Home Appliances	4	0+3+1
11	Refrigeration and air conditioning	4	0+3+1
12	Super critical Co2 plant operation	4	0+3+1
13	Business Plan Preparation	4	0+3+1
14	Composite fabrication practice	4	0+3+1
15	Powder coating practice	4	0+3+1
16	Farm appliances operation	4	0+3+1
17	Bio fertilizers preparation	4	0+3+1
18	PCB designing & fabrication	4	0+3+1
19	Introduction to Block Chain Technology	4	0+3+1
20	Introduction to Nutraceuticals	4	0+3+1
21	Introduction to NLP	4	0+3+1
22	Introduction to Computational Biology	4	0+3+1
23	Product Life Cycle Management through Gate process	4	0+3+1
24	New material development with Biovia	4	0+3+1
25	Spectral image processing using Python	4	0+3+1
26	Satellite data processing	4	0+3+1
27	Working with Graphene and carbon fibre	4	0+3+1
28	Adobe Tools and Illustrations	4	0+3+1
29	Digital Painting	4	0+3+1
30	Computer Installation and Maintenance	4	0+3+1



List of Domain courses

Group A: Agriculture/ Agri Engineering/Phyto pharma/ Dairy tech/ fisheries/ biological sciences

Group B: All other engineering/physical and mathematical science/vocational or skills

Group C: Pharmacy and allied Health

Group D: Management & media and communication

Sl. No.	Name of the Domain	Credit	Category	Year of introduction
1	Advance Video Processing, Computer Vision and Machine Learning	30	A/B/D	2020
2	Aerial Survey and Remote Sensing Applications	18	A/B	2020
3	Agri Business Management	23	A/B/D	2020
4	Architectural and Structural Design	20	A/B	2020
5	Business Analytics	21	A/B/D	2020
6	Chip Design and Fabrication using VLSI	18	В	2020
7	Commodity and Food Storage	29	A/B/D	2020
8	Communication Systems	18	В	2020
9	Composite Design and Manufacturing	24	A/B	2020
10	Computational Fluid Dynamics	20	A/B	2020
11	Cyber Security	24	B	2020
12	Dairy Processing and Development	28	A/B	2020
13	Fish Processing Technology	29	A/B	2020
14	Food Processing	29	A/B/D	2020
15	Gaming and Immersive Learning (AR & VR)	20	A/B/D	2020
16	Go-To-Market	22	A/B/D	2020
17	Health Care Assistancy	25	A/B	2020
18	Manufacturing Execution System	18	В	2020
19	Nutraceuticals	29	A/C	2020
20	Protected Horticulture	29	A/B	2020



21	Renewable Energy Applications	22	A/B	2020
22	Smart Agriculture	29	A/B	2020
23	Smart Farm Machinery	28	A/B	2020
24	Soil and Water Conservation through Watershed	28	A/B	2020

List of value added courses

SI. No	Course Title	Hrs. of input
1	Natural Resource Management	30
2	Research Methodology and IPR	30
3	Urban Gardens using Hydroponics	30
4	Introduction to Python	30
5	MATLAB	30
6	Waste to Wealth	30
7	Technical Writing	30
8	Organic Farming	30
9	Disaster Management	30
10	Ethical Hacking	30
11	Web Development	30
12	Food & Nutrition	30
13	Clinical Practice	30
14	Innovation Management	30
15	Financial Literacy	30
16	Yoga and Meditation	30
17	Steps for Career Plan	30
18	MS Excel Basics	30
19	Quality Analysis	30
20	Ethical Writing Practice	30
21	Ansys	30
22	Video Making for Youtubers	30



School of Agricultural & Bio-Engineering

Department of Agricultural Engineering

Time: 12.00 p.m.

Date: 11/07/2020

Venue: Board Room, CUTM, Bhubaneswar

SI. No.	Name of the BOS Member(Internal Faculty and External Resource)	Organization	Signature
1	Dr. Supriya Pattanaik	CUTM	Attended Online
2	Dr. Anita Patra	CUTM	Attended Online
3	Dr. P.K. Mohanty	Dean, Academics	Attended Online
4	Dr. Sivala Kumar	Dean, SOABE	Attended Online
5	Dr. Khalid Khan	Retd. Dean, CAET, OUAT	Attended Online
6	Mr Bharat Agarwal	CEO, ABS KRISHI UDYOG, Odisha	Attended Online
7	Dr. Gitanjali Behera	CUTM	Attended Online
8	Dr. Prasant Kumar Choudhury	CUTM	Attended Online
9	Dr. SP Nanda	CUTM	Attended Online
10	Dr. Devendra Reddy	CUTM	Attended Online
11	Mr. Bhisma Narayan Rath	CUTM	Attended Online

Board of Studies Meeting Attendance Sheet

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Dean, SoABE

Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050



School of Forensic Sciences

Date: 14.07.2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Venue: Virtual Mode

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of School of Forensic Sciences was held on 11.07.2020 at 11 a.m. in Virtual mode through Zoom. The following members were present:

- 1. Dr. Gurudutta Pattnaik, Principal, SoPLS
- 2. Dr. Amulyaratna Behera, Assosciate Professor, SoFS & SoPLS
- 3. Mr. Mahesh Patnaik, Director, HVET
- 4. Mr. Sisir Panigrahy, Director, HVET
- 5. Dr. Aruna Kumar Swain, Assistant Director, SFSL Rasulgarh
- 6. Mr. Gyanranjan Panigrahy, Assistant Professor, BJB College
- 7. Ms. Shruti Rajwar, Assistant Professor, SoFS
- 8. Ms. Varsha Singh, Assistant Professor, SoFS

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dr. Gurudutta Pattnaik, **Principal, SoPLS and SoFS** presented acheivements and improvements of the department in the areas of academics and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 30-06-2019 were confirmed.

Agenda 2: Discussion and approval on any revision required in the Curriculum of M.Sc. Forensic Science, M.Sc. Cyber Security & Digital Forensics and B.Sc. Forensic Science.

- The Principal, SoFS gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders.
- Syllabus of B.Sc. Forensic Science (Annexure-I), M.Sc. Forensic Science (Annexure-II) and M.Sc. Cyber Security and Digital Forensics (Annexure-III) was revised.
- Board decided to merge Laboratory courses of M.Sc. Forensic Science with their respective Theory Cousrses.
- Board approved the courses to be taught in upcoming semesters.

Agenda 3: Inclusion of courses on life skills and value addition

• It was suggested that students take up various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure-4)



Dr. Gurudutta Pattnaik, Principal, SoFS & SoPLS extended his sincere thanks to all members of the Board. The meeting ended with a vote of thanks to the Chair.

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Principal, SoPLS & SoFS

Hara

Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050



ANNEXURE-I

Revised courses of B.Sc. Forensic Science

SI. No	Course Title	Type(Skill/Employabili ty/Entrepreneurship	Credit
	Semester I		
1.	CUTM1659 - Basics of Forensic	Skill	6
2.	CUTM1660 - Crime and Society	Skill	6
3.	Ability enhancement Course	Skill	2
4.	Generic Elective	Skill	6
	Semester II		
5.	CUTM1661 - Criminal Law	Skill	6
6.	CUTM1662 - Forensic Psychology	Skill	6
7.	Ability enhancement Course	Skill	2
8.	Generic Elective	Skill	6
	Semester III		
9.	CUTM1663 -Forensic Dermatoglyphics	Employability & Skill	6
10.	CUTM1664 - Technological Methods in Forensic	Employability & Skill	6
11.	CUTM1665 - Criminalistics	Employability & Skill	6
12.	Ability Enhancement Elective (Skill Based) course	Skill	2
13.	Generic Elective	Skill	6
	Semester IV		
14.	CUTM1666-Forensic Chemistry	Employability & Skill	6
15.	CUTM1667 - Questioned Documents	Employability,	
16.	CUTM1668 - Forensic Biology	Employability & Skill	6
17.	Ability Enhancement Elective (Skill Based) course	Skill	2
18.	Generic Elective	Skill	6
	Semester V	Loran	
19.	CUTM1669 - Forensics Ballistics	Employability & Skill	6
20.	CUTM1670 - Forensic Toxicology	Employability & Skill	6
21.	Discipline Specific Elective (DSE)	Employability & Skill	6
22.	Discipline Specific Elective (DSE)	Employability & Skill	6
	Semester VI		
23.	CUTM1671 - Forensic Anthropology	Employability & Skill	6
24.	CUTM1672 - Forensic Medicine	Employability & Skill	6
25.	Discipline Specific Elective (DSE)	Employability & Skill	6
26.	Discipline Specific Elective (DSE)	Employability & Skill	6
	ABILITY ENHANCEMENT C	na de la companya de	<u></u>
27.	CUTM1673 - English	Skill	2
28.	CUTM1010 - Environmental Science	Skill	2
2851525072	BILITY ENHANCEMENT ELECTIVE (SKILL BASED) COUF		
29.	CUTM1675 - Introduction to Biometry	Skill	2
30.	CUTM1676 - Handwriting Identification and	Skill	2
	Recognition		F
	DISCIPLINE SPECIFIC ELECTIVE (D	SE COURSES)	
31.	CUFS2410 - Digital Forensics	Employability & Skill	6



32.	CUFS2411 - Economic Offences	Employability & Skill	6
33.	CUFS2412- Forensic Serology	Employability & Skill	6
34.	CUFS2413 - Accident Investigations	Employability & Skill	6
35.	CUFS2414 - DNA Forensics	Employability & Skill	6
36.	CUFS2415 - Audio Recognition and Video Analysis	Employability & Skill	6
37.	CUFS2416 - Explosive Analysis and Post Blast Investigation	Employability & Skill	6
38.	CUFS2417 - Quality control and Quality Assurance	Employability & Skill	6
	GENERIC ELECTIVE (GE Subjects From other Disciplines (One each		



ANNEXURE-II

- SI. No **Course Title** Type (Skill/Employability Credit /Entrepreneurship Semester I CUTM1634 - Introduction to Forensics, Psychology, Skill 6 Law and Statistics CUTM1635 - Instrumental Techniques Skill 6 CUTM 1636 - Crime Scene Management Skill & Employability 6 and Forensic Physics CUTM1637 - Fingerprints and Questioned Skill, Employability & 6 Documents Entrepreneurship CUTM1638 - Business Communication Skill 2 Semester II CUTM1639 - Quality Management, Narcotic Drugs, Skill 6 Explosives, and Forensic Chemistry CUTM1640 - Forensic Biology and Forensic Skill 6 Medicine CUTM1641 - Forensic Serology and DNA Profiling Skill & Employability 6 CUTM1642 - Forensic Toxicology and Skill & Employability 6 Pharmacology CUTM1643 - Forensic Ballistics and Computer Skill & Employability 6 Forensics Semester III Skill CUTM1656 - Assignment 06 CUTM1657 - Seminar Skill 06 SPECIALIZATION IN FORENSIC CHEMISTRY AND TOXICOLOGY CUTM1647 - Pharmacology and Pharmaceutical Employability, Skill 6 Drug Analysis CUTM1648 - Concepts of Toxicology Skill & Employability 6 CUTM1649 - Modern and Applied Analytical Skill & Employability 6 Forensic Chemistry SPECIALIZATION IN FORENSIC BIOLOGY CUTM1644 - Molecular Biology and Genetics Skill & Employability 6 CUTM1645 - Biotechnology in Pharmaceutical Skill & Employability 6 Sciences CUTM1646 - Environmental Biotechnology Skill & Employability 6 SPECIALIZATION IN FORENSIC PHYSICS CUTM1650 - Advances in Physical Techniques Employability 6 CUTM1651 - Concepts of Conventional and Employability 6 Modern Ballistics CUTM1652 - Audio Recognition and Video Analysis Employability 6 SPECIALIZATION IN FINGERPRINTS AND QUESTIONED DOCUMENT
- Revised courses of M.Sc. Forensic Science



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	CUTM1653 - Modern Trends in Fingerprint Sciences	Employability	6
	CUTM1654 - Questioned Document and Forensic Accounting	Skill, Employability & Entrepreneurship	6
	CUTM1655 - Forensic Photography and Biometric Traits	Skill & Employability	6
Semest	er IV		
	CUTM1658 - Project	Skill, Employability & Entrepreneurship	12



ANNEXURE - III

Sl. No	Course Title	Type(Skill/Employability /Entrepreneurship	Credit
	Semester I		
1.	CUTM1618 - Principles of Information Security	Employability	4
2.	CUTM1619- Digital Forensics	Employability	6
3.	CUTM1620- Computer Networks	Employability & Skill	6
4.	CUTM1621- Cyber Crime & Investigations	Employability & Skill	4
5.	CUTM1622- Intellectual Property Rights	Employability	4
	Semester II		
6.	CUTM1623 - Number theory & Cryptography	Employability & Skill	4
7.	CUTM1624- Advanced Information Security	Employability & Skill	4
8.	CUTM1625 - Cyber Forensics	Employability & Skill	6
9.	CUTM1626- System and Network Security	Employability & Skill	6
10.	CUTM1627- Cyber Law	Entrepreneurship	4
	Semester III		
11.	CUTM1628- Mobile Security Analysis	Entrepreneurship	6
12.	CUTM1629- IT Governance, Risk and Compliance	Entrepreneurship	4
13.	CUT1630- Business Continuity Planning (BCP) And Disaster Recovery (Dr)	Skill	4
14.	CUTM1631 - Penetration Testing & Vulnerability Assessment	Employability	6
15.	CUTM1632- Digital Frauds	Employability	4
	Semester IV		
16.	CUTM1633 - Project/Dissertation	Employability	24

• Revised courses of M.Sc. Cyber Security and Digital Forensics



ANNEXURE - IV

• Skill courses approved by BOS and to be offered in 2020-21

SI. No.	Course Title	Credit
1	Introduction to Quantum Computing	4
2	Organic Farming	4
3	Mushroom Farming	4
4	Hydroponics Technology	4
5	Poultry Farming	4
6	Dairy Farming	4
7	Vermicomposting Farming	4
8	Transformer Manufacturing, Repairing and Maintenance	4
9	Electrical Installation	4
10	Repair and Maintenance of Home Appliances	4
11	Refrigeration and air conditioning	4
12	Super critical Co2 plant operation	4
13	Business Plan Preparation	4
14	Composite fabrication practice	4
15	Powder coating practice	4
16	Farm appliances operation	4
17	Bio fertilisers preparation	4
18	PCB designing & fabrication	4

• Value added courses approved by BOS in 2020-21

Sl. No.	Course title	Duration of course
1	Natural Resource Management	30 Hours
2	Research Methodology and IPR	30 Hours
3	Urban Gardens using Hydroponics	30 Hours
4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organic Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	30 Hours
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
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	UNIVERSITY	
16	Yoga and Meditation	30 Hours
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19	Quality Analysis	30 Hours
20	Ethical Writing Practice	30 Hours
21	Ansys	30 Hours
22	Video Making for Youtubers	30 Hours



School of Forensic Sciences

Time: 11.00 a.m.

Venue: Virtual Mode

Board of Studies Meeting

Attendance Sheet

SI. No.	Name of the BOS Member(Internal Faculty and External Resource)	Designation	Signature
1	Dr. Gurudutta Pattnaik	Principal, SoPLS & SoFS, CUTM	Attended Online
2	Mr. Mahesh Patnaik	Director, SoPLS and SoFS, CUTM	Attended Online
3	Mr. Gyanaranjan Panigrahy	Assistant Professor, BJB autonomous college.	Attended Online
4	Dr. Amulyaratna Behera	Assosciate Professor, SoFS & SoPLS	Attended Online
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8	Ms. Varsha Singh	Assistant Professor, School of Forensic Sciences	Attended Online

Principal, SoPLS and SoFS

Housan

DBERn, Academics Centurion University of Technology & Management Bhubaneswar, Khurda. Cdisha-752050

Date: 11/07/2020



School of Forensic Sciences

Date: 14.07.2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

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- Board decided to merge Laboratory courses of M.Sc. Forensic Science with their respective Theory Cousrses.
- Board approved the courses to be taught in upcoming semesters.

Agenda 3: Inclusion of courses on life skills and value addition

• It was suggested that students take up various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure-4)



Dr. Gurudutta Pattnaik, Principal, SoFS & SoPLS extended his sincere thanks to all members of the Board. The meeting ended with a vote of thanks to the Chair.

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Principal, SoPLS & SoFS

Horason

Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050



ANNEXURE-I

• Revised courses of B.Sc. Forensic Science

SI. No	Course Title	Type(Skill/Employabili ty/Entrepreneurship	Credit
	Semester I		
1.	CUTM1659 - Basics of Forensic	Skill	6
2.	CUTM1660 - Crime and Society	Skill	6
3.	Ability enhancement Course	Skill	2
4.	Generic Elective	Skill	6
	Semester II		1.92
5.	CUTM1661 - Criminal Law	Skill	6
6.	CUTM1662 - Forensic Psychology	Skill	6
7.	Ability enhancement Course	Skill	2
8.	Generic Elective	Skill	6
	Semester III		e el serier sur
9.	CUTM1663 -Forensic Dermatoglyphics	Employability & Skill	6
10.	CUTM1664 - Technological Methods in Forensic	Employability & Skill	6
11.	CUTM1665 - Criminalistics	Employability & Skill	6
12.	Ability Enhancement Elective (Skill Based) course	Skill	2
13.	Generic Elective	Skill	6
	Semester IV		
14.	CUTM1666-Forensic Chemistry	Employability & Skill	6
15.	CUTM1667 - Questioned Documents	Employability,	
16.	CUTM1668 - Forensic Biology	Employability & Skill	6
17.	Ability Enhancement Elective (Skill Based) course	Skill	2
18.	Generic Elective	Skill	6
	Semester V	- I	
19.	CUTM1669 - Forensics Ballistics	Employability & Skill	6
20.	CUTM1670 - Forensic Toxicology	Employability & Skill	6
21.	Discipline Specific Elective (DSE)	Employability & Skill	6
22.	Discipline Specific Elective (DSE)	Employability & Skill	6
	Semester VI		
23.	CUTM1671 - Forensic Anthropology	Employability & Skill	6
24.	CUTM1672 - Forensic Medicine	Employability & Skill	6
25.	Discipline Specific Elective (DSE)	Employability & Skill	6
26.	Discipline Specific Elective (DSE)	Employability & Skill	6
	ABILITY ENHANCEMENT C		~
27.	CUTM1673 - English	Skill	2
28.	CUTM1010 - Environmental Science	Skill	2
25525075	BILITY ENHANCEMENT ELECTIVE (SKILL BASED) COUF		
29.	CUTM1675 - Introduction to Biometry	Skill	2
30.	CUTM1676 - Handwriting Identification and	Skill	2
	Recognition	2010	4
	DISCIPLINE SPECIFIC ELECTIVE (D	SE COURSES)	
31.	CUFS2410 - Digital Forensics	Employability & Skill	6



32.	CUFS2411 - Economic Offences	Employability & Skill	6
33.	CUFS2412- Forensic Serology	Employability & Skill	6
34.	CUFS2413 - Accident Investigations	Employability & Skill	6
35.	CUFS2414 - DNA Forensics	Employability & Skill	6
36.	CUFS2415 - Audio Recognition and Video Analysis	Employability & Skill	6
37.	CUFS2416 - Explosive Analysis and Post Blast Investigation	Employability & Skill	6
38.	CUFS2417 - Quality control and Quality Assurance	Employability & Skill	6
	GENERIC ELECTIVE (GE Subjects From other Disciplines (One each		



ANNEXURE-II

• Revised courses of M.Sc. Forensic Science

SI. No	Course Title	Type (Skill/Employability /Entrepreneurship	Credit
Semeste	er I		
	CUTM1634 – Introduction to Forensics, Psychology,	Skill	6
	Law and Statistics		
	CUTM1635 - Instrumental Techniques	Skill	6
	CUTM 1636 - Crime Scene Management	Skill & Employability	6
	and Forensic Physics		
	CUTM1637 - Fingerprints and Questioned	Skill, Employability &	6
	Documents	Entrepreneurship	
	CUTM1638 - Business Communication	Skill	2
Semeste			14
	CUTM1639 - Quality Management, Narcotic Drugs,	Skill	6
	Explosives, and Forensic Chemistry	Skiii	0
	CUTM1640 - Forensic Biology and Forensic	Skill	6
	Medicine	JAN	0
	CUTM1641 - Forensic Serology and DNA Profiling	Skill & Employability	6
	CUTM1642 - Forensic Toxicology and	Skill & Employability	6
	Pharmacology	Skin & Employability	0
	CUTM1643 - Forensic Ballistics and Computer	Skill & Employability	6
	Forensics	Skin & Employability	U
Semeste			4.
	CUTM1656 - Assignment	Skill	06
			-
SPECIAL	CUTM1657 - Seminar	Skill	06
		Constant the state	1.0
	CUTM1647 - Pharmacology and Pharmaceutical	Employability, Skill	6
	Drug Analysis		
	CUTM1648 - Concepts of Toxicology	Skill & Employability	6
	CUTM1649 - Modern and Applied Analytical	Skill & Employability	6
	Forensic Chemistry		0
SPECIALI	ZATION IN FORENSIC BIOLOGY		
	CUTM1644 - Molecular Biology and Genetics	Skill & Employability	6
	Sector and sectory and sectors		0
	CUTM1645 - Biotechnology in Pharmaceutical	Skill & Employability	6
	Sciences		Ŭ
	CUTM1646 - Environmental Biotechnology	Skill & Employability	6
SPECIALI	ZATION IN FORENSIC PHYSICS		
	CUTM1650 - Advances in Physical Techniques	Employability	6
	CUTM1651 - Concepts of Conventional and	Employability	6
	Modern Ballistics		0
	CUTM1652 - Audio Recognition and Video Analysis	Employability	6
		1	



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	CUTM1653 - Modern Trends in Fingerprint Sciences	Employability	6
	CUTM1654 - Questioned Document and Forensic Accounting	Skill, Employability & Entrepreneurship	6
	CUTM1655 - Forensic Photography and Biometric Traits	Skill & Employability	6
Semest	er IV		
	CUTM1658 - Project	Skill, Employability & Entrepreneurship	12



ANNEXURE - III

Sl. No	Course Title	Type(Skill/Employability /Entrepreneurship	Credit
	Semester I		
1.	CUTM1618 - Principles of Information Security	Employability	4
2.	CUTM1619- Digital Forensics	Employability	6
3.	CUTM1620- Computer Networks	Employability & Skill	6
4.	CUTM1621- Cyber Crime & Investigations	Employability & Skill	4
5.	CUTM1622- Intellectual Property Rights	Employability	4
	Semester II		
6.	CUTM1623 - Number theory & Cryptography	Employability & Skill	4
7.	CUTM1624- Advanced Information Security	Employability & Skill	4
8.	CUTM1625 - Cyber Forensics	Employability & Skill	6
9.	CUTM1626- System and Network Security	Employability & Skill	6
10.	CUTM1627- Cyber Law	Entrepreneurship	4
	Semester III		
11.	CUTM1628- Mobile Security Analysis	Entrepreneurship	6
12.	CUTM1629- IT Governance, Risk and Compliance	Entrepreneurship	4
13.	CUT1630- Business Continuity Planning (BCP) And Disaster Recovery (Dr)	Skill	4
14.	CUTM1631 - Penetration Testing & Vulnerability Assessment	Employability	6
15.	CUTM1632- Digital Frauds	Employability	4
	Semester IV		
16.	CUTM1633 - Project/Dissertation	Employability	24

• Revised courses of M.Sc. Cyber Security and Digital Forensics



ANNEXURE - IV

• Skill courses approved by BOS and to be offered in 2020-21

SI. No.	Course Title	Credit
1	Introduction to Quantum Computing	4
2	Organic Farming	4
3	Mushroom Farming	4
4	Hydroponics Technology	4
5	Poultry Farming	4
6	Dairy Farming	4
7	Vermicomposting Farming	4
8	Transformer Manufacturing, Repairing and Maintenance	4
9	Electrical Installation	4
10	Repair and Maintenance of Home Appliances	4
11	Refrigeration and air conditioning	4
12	Super critical Co2 plant operation	4
13	Business Plan Preparation	4
14	Composite fabrication practice	4
15	Powder coating practice	4
16	Farm appliances operation	4
17	Bio fertilisers preparation	4
18	PCB designing & fabrication	4

• Value added courses approved by BOS in 2020-21

Sl. No.	Course title	Duration of course
1	Natural Resource Management	30 Hours
2	Research Methodology and IPR	30 Hours
3	Urban Gardens using Hydroponics	30 Hours
4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organic Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	30 Hours
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
15	Financial Literacy	30 Hours



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16	Yoga and Meditation	30 Hours
17	Steps for Career Plan	30 Hours
18	MS Excel Basics	30 Hours
19	Quality Analysis	30 Hours
20	Ethical Writing Practice	30 Hours
21	Ansys	30 Hours
22	Video Making for Youtubers	30 Hours



School of Forensic Sciences

Time: 11.00 a.m.

Venue: Virtual Mode

Board of Studies Meeting

Attendance Sheet

SI. No.	Name of the BOS Member(Internal Faculty and External Resource)	Designation	Signature
1	Dr. Gurudutta Pattnaik	Principal, SoPLS & SoFS, CUTM	Attended Online
2	Mr. Mahesh Patnaik	Director, SoPLS and SoFS, CUTM	Attended Online
3	Mr. Gyanaranjan Panigrahy	Assistant Professor, BJB autonomous college.	Attended Online
4	Dr. Amulyaratna Behera	Assosciate Professor, SoFS & SoPLS	Attended Online
5	Dr. Aruna Kumar Swain	Assistant Director, SFSL Rasulgarh	Attended Online
6	Mr. Sisir Panigrahy,	Director, HVET	Attended Online
7	Ms. Shruti Rajwar	Assistant Professor, School of Forensic Sciences	Attended Online
8	Ms. Varsha Singh	Assistant Professor, School of Forensic Sciences	Attended Online

Principal, SoPLS and SoFS

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DBERn, Academics Centurion University of Technology & Management Bhubaneswar, Khurda. Cdisha-752050

Date: 11/07/2020



School of Forensic Sciences

Date: 14.07.2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Venue: Virtual Mode

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of School of Forensic Sciences was held on 11.07.2020 at 11 a.m. in Virtual mode through Zoom. The following members were present:

- 1. Dr. Gurudutta Pattnaik, Principal, SoPLS
- 2. Dr. Amulyaratna Behera, Assosciate Professor, SoFS & SoPLS
- 3. Mr. Mahesh Patnaik, Director, HVET
- 4. Mr. Sisir Panigrahy, Director, HVET
- 5. Dr. Aruna Kumar Swain, Assistant Director, SFSL Rasulgarh
- 6. Mr. Gyanranjan Panigrahy, Assistant Professor, BJB College
- 7. Ms. Shruti Rajwar, Assistant Professor, SoFS
- 8. Ms. Varsha Singh, Assistant Professor, SoFS

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dr. Gurudutta Pattnaik, **Principal, SoPLS and SoFS** presented acheivements and improvements of the department in the areas of academics and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 30-06-2019 were confirmed.

Agenda 2: Discussion and approval on any revision required in the Curriculum o</mark>f M.Sc. Forensic Science, <mark>M.Sc.</mark> Cyber Security & Digital Forensics and B.Sc. Forensic Science.

- The Principal, SoFS gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders.
- Syllabus of B.Sc. Forensic Science (Annexure-I), M.Sc. Forensic Science (Annexure-II) and M.Sc. Cyber Security and Digital Forensics (Annexure-III) was revised.
- Board decided to merge Laboratory courses of M.Sc. Forensic Science with their respective Theory Cousrses.
- Board approved the courses to be taught in upcoming semesters.

Agenda 3: Inclusion of courses on life skills and value addition

• It was suggested that students take up various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure-4)



Dr. Gurudutta Pattnaik, Principal, SoFS & SoPLS extended his sincere thanks to all members of the Board. The meeting ended with a vote of thanks to the Chair.

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Principal, SoPLS & SoFS

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Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050



ANNEXURE-I

• Revised courses of B.Sc. Forensic Science

SI. No	Course Title	Type(Skill/Employabili ty/Entrepreneurship	Credit	
	Semester I			
1.	CUTM1659 - Basics of Forensic	Skill	6	
2.	CUTM1660 - Crime and Society	Skill	6	
3.	Ability enhancement Course	Skill	2	
4.	Generic Elective	Skill	6	
	Semester II			
5.	CUTM1661 - Criminal Law	Skill	6	
6.	CUTM1662 - Forensic Psychology	Skill	6	
7.	Ability enhancement Course	Skill	2	
8.	Generic Elective	Skill	6	
	Semester III			
9.	CUTM1663 -Forensic Dermatoglyphics	Employability & Skill	6	
10.	CUTM1664 - Technological Methods in Forensic	Employability & Skill	6	
11.	CUTM1665 - Criminalistics	Employability & Skill	6	
12.	Ability Enhancement Elective (Skill Based) course	Skill	2	
13.	Generic Elective	Skill	6	
	Semester IV			
14.	CUTM1666-Forensic Chemistry	Employability & Skill	6	
15.	CUTM1667 - Questioned Documents	Employability,		
16.	CUTM1668 - Forensic Biology	Employability & Skill	6	
17.	Ability Enhancement Elective (Skill Based) course	Skill	2	
18.	Generic Elective	Skill	6	
	Semester V	- I source the second s		
19.	CUTM1669 - Forensics Ballistics	Employability & Skill	6	
20.	CUTM1670 - Forensic Toxicology	Employability & Skill	6	
21.	Discipline Specific Elective (DSE)	Employability & Skill	6	
22.	Discipline Specific Elective (DSE)	Employability & Skill	6	
	Semester VI		1.	
23.	CUTM1671 - Forensic Anthropology	Employability & Skill	6	
24.	CUTM1672 - Forensic Medicine	Employability & Skill	6	
25.	Discipline Specific Elective (DSE)	Employability & Skill	6	
26.	Discipline Specific Elective (DSE)	Employability & Skill	6	
	ABILITY ENHANCEMENT C			
27.	CUTM1673 - English	Skill	2	
28.	CUTM1010 - Environmental Science	Skill	2	
25525075	BILITY ENHANCEMENT ELECTIVE (SKILL BASED) COUF			
29.	CUTM1675 - Introduction to Biometry	Skill	2	
30.	CUTM1676 - Handwriting Identification and	Skill	2	
	Recognition	2000	4	
	DISCIPLINE SPECIFIC ELECTIVE (D	SE COURSES)		
31.	CUFS2410 - Digital Forensics	Employability & Skill	6	



32.	CUFS2411 - Economic Offences	Employability & Skill	6
33.	CUFS2412- Forensic Serology	Employability & Skill	6
34.	CUFS2413 - Accident Investigations	Employability & Skill	6
35.	CUFS2414 - DNA Forensics	Employability & Skill	6
36.	CUFS2415 - Audio Recognition and Video Analysis	Employability & Skill	6
37.	CUFS2416 - Explosive Analysis and Post Blast Investigation	Employability & Skill	6
38.	CUFS2417 - Quality control and Quality Assurance	Employability & Skill	6
	GENERIC ELECTIVE (GE Subjects From other Disciplines (One each		



ANNEXURE-II

- SI. No **Course Title** Type (Skill/Employability Credit /Entrepreneurship Semester I CUTM1634 - Introduction to Forensics, Psychology, Skill 6 Law and Statistics CUTM1635 - Instrumental Techniques Skill 6 CUTM 1636 - Crime Scene Management Skill & Employability 6 and Forensic Physics CUTM1637 - Fingerprints and Questioned Skill, Employability & 6 Documents Entrepreneurship CUTM1638 - Business Communication Skill 2 Semester II CUTM1639 - Quality Management, Narcotic Drugs, Skill 6 Explosives, and Forensic Chemistry CUTM1640 - Forensic Biology and Forensic Skill 6 Medicine CUTM1641 - Forensic Serology and DNA Profiling Skill & Employability 6 CUTM1642 - Forensic Toxicology and Skill & Employability 6 Pharmacology CUTM1643 - Forensic Ballistics and Computer Skill & Employability 6 Forensics Semester III Skill CUTM1656 - Assignment 06 CUTM1657 - Seminar Skill 06 SPECIALIZATION IN FORENSIC CHEMISTRY AND TOXICOLOGY CUTM1647 - Pharmacology and Pharmaceutical Employability, Skill 6 Drug Analysis CUTM1648 - Concepts of Toxicology Skill & Employability 6 CUTM1649 - Modern and Applied Analytical Skill & Employability 6 Forensic Chemistry SPECIALIZATION IN FORENSIC BIOLOGY CUTM1644 - Molecular Biology and Genetics Skill & Employability 6 CUTM1645 - Biotechnology in Pharmaceutical Skill & Employability 6 Sciences CUTM1646 - Environmental Biotechnology Skill & Employability 6 SPECIALIZATION IN FORENSIC PHYSICS CUTM1650 - Advances in Physical Techniques Employability 6 CUTM1651 - Concepts of Conventional and Employability 6 Modern Ballistics CUTM1652 - Audio Recognition and Video Analysis Employability 6 SPECIALIZATION IN FINGERPRINTS AND QUESTIONED DOCUMENT
- Revised courses of M.Sc. Forensic Science



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	CUTM1653 - Modern Trends in Fingerprint Sciences	Employability	6
	CUTM1654 - Questioned Document and Forensic Accounting	Skill, Employability & Entrepreneurship	6
	CUTM1655 - Forensic Photography and Biometric Traits	Skill & Employability	6
Semest	er IV		
	CUTM1658 - Project	Skill, Employability & Entrepreneurship	12



ANNEXURE - III

Revised courses of M.Sc. Cyber Security and Digital Forensics

SI. No	Course Title	Type(Skill/Employability /Entrepreneurship	Credit
	Semester I		
1.	CUTM1618 - Principles of Information Security	Employability	4
2.	CUTM1619- Digital Forensics	Employability	6
3.	CUTM1620- Computer Networks	Employability & Skill	6
4.	CUTM1621- Cyber Crime & Investigations	Employability & Skill	4
5.	CUTM1622- Intellectual Property Rights	Employability	4
	Semester II		
6.	CUTM1623 - Number theory & Cryptography	Employability & Skill	4
7.	CUTM1624- Advanced Information Security	Employability & Skill	4
8.	CUTM1625 - Cyber Forensics	Employability & Skill	6
9.	CUTM1626- System and Network Security	Employability & Skill	6
10.	CUTM1627- Cyber Law	Entrepreneurship	4
	Semester III		
11.	CUTM1628- Mobile Security Analysis	Entrepreneurship	6
12.	CUTM1629- IT Governance, Risk and Compliance	Entrepreneurship	4
13.	CUT1630- Business Continuity Planning (BCP) And Disaster Recovery (Dr)	Skill	4
14.	CUTM1631 - Penetration Testing & Vulnerability Assessment	Employability	6
15.	CUTM1632- Digital Frauds	Employability	4
	Semester IV		
16.	CUTM1633 - Project/Dissertation	Employability	24



ANNEXURE - IV

• Skill courses approved by BOS and to be offered in 2020-21

SI. No.	Course Title	Credit
1	Introduction to Quantum Computing	4
2	Organic Farming	4
3	Mushroom Farming	4
4	Hydroponics Technology	4
5	Poultry Farming	4
6	Dairy Farming	4
7	Vermicomposting Farming	4
8	Transformer Manufacturing, Repairing and Maintenance	4
9	Electrical Installation	4
10	Repair and Maintenance of Home Appliances	
11	Refrigeration and air conditioning	
12	Super critical Co2 plant operation	4
13	Business Plan Preparation	4
14	Composite fabrication practice	4
15	Powder coating practice	4
16	Farm appliances operation	4
17	Bio fertilisers preparation	4
18	PCB designing & fabrication	4

• Value added courses approved by BOS in 2020-21

Sl. No.	Course title	Duration of course
1	Natural Resource Management	30 Hours
2	Research Methodology and IPR	30 Hours
3	Urban Gardens using Hydroponics	30 Hours
4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organic Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	30 Hours
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
15	Financial Literacy	30 Hours



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16	Yoga and Meditation	30 Hours
17	Steps for Career Plan	30 Hours
18	MS Excel Basics	30 Hours
19	Quality Analysis	30 Hours
20	Ethical Writing Practice	30 Hours
21	Ansys	30 Hours
22	Video Making for Youtubers	30 Hours



School of Forensic Sciences

Time: 11.00 a.m.

Venue: Virtual Mode

Board of Studies Meeting

Attendance Sheet

SI. No.	Name of the BOS Member(Internal Faculty and External Resource)	Designation	Signature
1	Dr. Gurudutta Pattnaik	Principal, SoPLS & SoFS, CUTM	Attended Online
2	Mr. Mahesh Patnaik	Director, SoPLS and SoFS, CUTM	Attended Online
3	Mr. Gyanaranjan Panigrahy	Assistant Professor, BJB autonomous college.	Attended Online
4	Dr. Amulyaratna Behera	Assosciate Professor, SoFS & SoPLS	Attended Online
5	Dr. Aruna Kumar Swain	Assistant Director, SFSL Rasulgarh	Attended Online
6	Mr. Sisir Panigrahy,	Director, HVET	Attended Online
7	Ms. Shruti Rajwar	Assistant Professor, School of Forensic Sciences	Attended Online
8	Ms. Varsha Singh	Assistant Professor, School of Forensic Sciences	Attended Online

Principal, SoPLS and SoFS

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DBERn, Academics Centurion University of Technology & Management Bhubaneswar, Khurda. Cdisha-752050

Date: 11/07/2020



School of Agricultural and Bio-Engineering

Department of Phytopharmaceuticals

Date: 11/07/2020

MINUTES OF BOARD OF STUDIES MEETING held on 11/07/2020

Virtual Mode

Time: 12.00 p.m.

The Board of Studies (BoS) meeting of Department of Phytopharmaceuticals was held on 11/07/2020 at 12 p.m. in online mode (due to the continuing Covid-19 Pandemic). The following members are present during the meeting.

- 1. Dr. Prasanta Kumar Mohanty, Dean Academics, CUTM
- 2. Dr. Sivala Kumar, Dean SoABE, CUTM
- 3. Dr. U V Babu, Head R&D, Himalaya Wellness, Bangalore, India.
- 4. Dr. R Kannan, Principal Scientist, Himalaya Wellness, Bangalore, India.
- 5. Mr. Amitesh Roy Choudhury, Corporate Advisor.
- 6. Dr. Gitanjali Behera, HOD, Agricultural Engineering, CUTM
- 7. Dr. Prasanta Kumar Choudhury, Head Dairy Technology, SoABE, CUTM
- 8. Dr. Bhisma Narayan Rath, Head Phytopharmaceuticals, SoABE, CUTM
- 9. Dr. S. P. Nanda, Dean Administration, MSSSoA, CUTM
- 10. Dr. Devendra Reddy, Dean Academics, MSSSoA, CUTM
- 11. Prince K Jha, 3rd Year B.Tech Phyto Student, CUTM

Dean SoABE have given a presentation on course structure of B.Tech Ag, Dairy Technology and Phyto-pharmaceutical department. There was a thorough discussion on the syllabus of B. Tech Phytopharmaceuticals and the following feedback was suggested by the Experts. The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 22/06/2019 were confirmed.

Agenda 2: Revision of Curriculum for the programme B. Tech Phyto

- It was discussed and decided to follow the CBCS structure of 5 Basket systems of Syllabus of School of Engineering & Technology in the B.Tech Phytopharmaceuticals programme.
- Dr. U. V. Babu & Dr. R. Kannan (Himalaya Wellness: Congratulations CUTM for Phytopharma. Basket 4 is very suitable for industry & students will have all desired expertise. Pharmacognosy need addition for bioactive components. Need addition of phytochemistry and natural products analysis by NMR. Regulatory course changes to focus



on GMP. Ensure students visit industry of students (To engage students in academic/industry interface.)

- Mr. Amitesh Roy Choudhary: CUTM is bridge between industry and academics. Don't give idea only for jobs, encourage entrepreneurship for students.
- Mr. Prince K Jha, Ms. Pragyan Paramita Puti: Agreed that majority of subjects are well planned and delivered. However, they are having biology background and were not comfortable in engineering subjects like (thermodynamics, mathematics).
- Industry Expert: The department have taken up everything in the course syllabus to graduate a best student from the University. The student should be exposed to more field visit and industrial visit, so that the outcome will be best. Dean SoABE explained that we have already taking our students to field and industry visit to have a better practical understanding of the subjects.
- The list of new courses added is given in Annexure A.

Agenda 3: Discussion on modification of syllabus of Basket- 4, 5

The Board approved the changes suggested in the core courses. List of existing courses where syllabus was changed in (*Annexure B*)

Agenda 4: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure C).

The Dean, SoABE, extended sincere thanks to all members of the Board. The meeting ended with a vote of thanks to the Chair.



Dean, SoABE

Susan

Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050

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HoD, Phytopharmacutical



Annexure-A

List of new courses added

SI. No	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Computer Aided Drafting	Skill and Employability	3
2	Product Design and Development	Skill and Employability	2
3	Reverse Engineering and Rapid Prototype	Skill and Employability	4
4	Product Life Cycle Management	Skill and Employability	2
5	Manufacturing Process- process planning and Heat Treatment	Skill and Employability	2
6	Material in product design and development	Skill and Employability	3
7	Computer Aided Engineering	Skill and Employability	2
8	Quality Assurance	Skill and Employability	2
9	Applied Ergonomics	Skill and Employability	2
10	Computer Aided Manufacturing	Skill and Employability	2
11	CNC Programming & CNC Machining	Skill and Employability	
12	Design of Tools, Jigs and Fixtures	Skill and Employability	3
13	Advance Metrology	Skill and Employability	2
14	Thermodynamics	Skill and Employability	3
15	Fluid Mechanics with Finite Volume Method	Skill and Employability	3
16	Hydraulic Machinery	Skill and Employability	2
17	Theory of Machines	Skill and Employability	3
18	Heat Transfer with FDM/FVM	Skill and Employability	3
19	Theories of Failure Using Finite Element Analysis	Skill and Employability	
20	Optimization Techniques	Skill and Employability	2
20	Programming in Java (Same as Java Technologies)	Skill and Employability	3
22	Database Management Systems	Skill and Employability	3



Annexure-B

List of existing courses where syllabus was changed

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
1	Post-Harvest Engineering of Horticultural Crops	1	Credits modified
2	Principles of Agronomy	1	Aligned with Fundamentals of Agronomy
3	Principles of Soil Science	1	Aligned with Fundamentals of Soil Science
4	Principles of Horticultural Crops and Plant Protection	1	Aligned with Fundamentals of Horticulture
5	Soil and Water Conservation Engineering and Water Harvesting and Soil Conservation Structures	2	The both course was merged into Soil- Water Conservation Engineering and Structure, the credit was modified to 4 credits



Annexure-C

List of Skill courses

SI. No	Course Title	Credit	(T+P+P)
1	Introduction to Quantum Computing	4	0+3+1
2	Organic Farming	4	0+3+1
3	Mushroom Farming	4	0+3+1
4	Hydroponics Technology	4	0+3+1
5	Poultry Farming	4	0+3+1
6	Dairy Farming	4	0+3+1
7	Vermi composting Farming	4	0+3+1
8	Transformer Manufacturing, Repairing and Maintenance	4	0+3+1
9	Electrical Installation	4	0+3+1
10	Repair and Maintenance of Home Appliances	4	0+3+1
11	Refrigeration and air conditioning	4	0+3+1
12	Super critical Co2 plant operation	4	0+3+1
13	Business Plan Preparation	4	0+3+1
14	Composite fabrication practice	4	0+3+1
15	Powder coating practice	4	0+3+1
16	Farm appliances operation	4	0+3+1
17	Bio fertilizers preparation	4	0+3+1
18	PCB designing & fabrication	4	0+3+1
19	Introduction to Block Chain Technology	4	0+3+1
20	Introduction to Nutraceuticals	4	0+3+1
21	Introduction to NLP	4	0+3+1
22	Introduction to Computational Biology	4	0+3+1
23	Product Life Cycle Management through Gate process	4	0+3+1
24	New material development with Biovia	4	0+3+1
25	Spectral image processing using Python	4	0+3+1
26	Satellite data processing	4	0+3+1
27	Working with Graphene and carbon fibre	4	0+3+1
28	Adobe Tools and Illustrations	4	0+3+1
29	Digital Painting	4	0+3+1
30	Computer Installation and Maintenance	4	0+3+1



List of Domain courses

Group A: Agriculture/ Agri Engineering/Phyto pharma/ Dairy tech/ fisheries/ biological sciences

Group B: All other engineering/physical and mathematical science/vocational or skills

Group C: Pharmacy and allied Health

Group D: Management & media and communication

SI. No.	Name of the Domain	Credit	Category	Year of introduction
1	Advance Video Processing, Computer Vision and Machine Learning	30	A/B/D	2020
2	Aerial Survey and Remote Sensing Applications	18	A/B	2020
3	Agri Business Management	23	A/B/D	2020
4	Architectural and Structural Design	20	A/B	2020
5	Business Analytics	21	A/B/D	2020
6	Chip Design and Fabrication using VLSI	18	В	2020
7	Commodity and Food Storage	29	A/B/D	2020
8	Communication Systems	18	В	2020
9	Composite Design and Manufacturing	24	A/B	2020
10	Computational Fluid Dynamics	20	A/B	2020
11	Cyber Security	24	В	2020
12	Dairy Processing and Development	28	A/B	2020
13	Fish Processing Technology	29	A/B	2020
14	Food Processing	29	A/B/D	2020
15	Gaming and Immersive Learning (AR & VR)	20	A/B/D	2020
16	Go-To-Market	22	A/B/D	2020
17	Health Care Assistancy	25	A/B	2020
18	Manufacturing Execution System	18	В	2020
19	Nutraceuticals	29	A/C	2020
20	Protected Horticulture	29	A/B	2020



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21	Renewable Energy Applications	22	A/B	2020
22	Smart Agriculture	29	A/B	2020
23	Smart Farm Machinery	28	A/B	2020
24	Soil and Water Conservation through Watershed	28	A/B	2020

List of value added courses

Sl. No	Course Title	Hrs. of input
1	Natural Resource Management	30
2	Research Methodology and IPR	30
3	Urban Gardens using Hydroponics	30
4	Introduction to Python	30
5	MATLAB	30
6	Waste to Wealth	30
	Technical Writing	30
8	Organic Farming	30
9	Disaster Management	30
10	Ethical Hacking	30
11	Web Development	30
12	Food & Nutrition	30
13	Clinical Practice	30
14	Innovation Management	30
15	Financial Literacy	30
16	Yoga and Meditation	30
17	Steps for Career Plan	30
18	MS Excel Basics	30
19	Quality Analysis	30
20	Ethical Writing Practice	30
21	Ansys	30
22	Video Making for Youtubers	30



School of Agricultural & Bio-Engineering

Department of Agricultural Engineering

Time: 12.00 p.m.

Date: 11/07/2020

Venue: Board Room, CUTM, Bhubaneswar

SI. No.	Name of the BOS Member(Internal Faculty and External Resource)	Organization	Signature
1	Dr. Supriya Pattanaik	CUTM	Attended Online
2	Dr. Anita Patra	CUTM	Attended Online
3	Dr. P.K. Mohanty	Dean, Academics	Attended Online
4	Dr. Sivala Kumar	Dean, SOABE	Attended Online
5	Dr. U V Babu	Himalaya Drug Company	Attended Online
6	Dr. R Kannan	Himalaya Drug Company	Attended Online
7	Mr. Amitesh Roy Choudhary	Corporate Advisor	Attended Online
8	Dr. Gitanjali Behera	CUTM	Attended Online
9	Dr. Prasant Kumar Choudhury	CUTM	Attended Online
10	Dr. SP Nanda	CUTM	Attended Online
11	Dr. Devendra Reddy	CUTM	Attended Online
12	Mr. Bhisma Narayan Rath	CUTM	Attended Online
13	Prince K Jha	Student, CUTM	Attended Online

Board of Studies Meeting Attendance Sheet



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Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050

Dean, SoABE



School of Agricultural and Bio-Engineering

Department of Dairy Technology

Date: 11/07/2020

MINUTES OF BOARD OF STUDIES MEETING held on 11/07/2020

Virtual Mode

Time: 12.00 PM

The Board of Studies (BoS) meeting of Department of Dairy Technology was held on 11/07/2020 at 12 PM. in online mode (due to the continuing Covid-19 Pandemic). The following members are present during the meeting.

- 1. Dr. Prasanta Kumar Mohanty, Dean Academics, CUTM
- 2. Dr. Sivala Kumar, Dean SoABE, CUTM
- 3. Dr. Anil Kumar Puniya PS and Head, Dairy Microbiology, ICAR-NDRI, Karnal
- 4. Mr. Harinder Singh Grewal, Ex. General Manager (Retd.), Milkfed Punjab.
- 5. Dr. Gitanjali Behera, HOD, Agricultural Engineering, CUTM
- 6. Dr. Prasanta Kumar Choudhury, Head Dairy Technology, SoABE, CUTM
- 7. Dr. Bhisma Narayan Rath, Head Phytopharmaceuticals, SoABE, CUTM
- 8. Dr. S. P. Nanda, Dean Administration, MSSSoA, CUTM
- 9. Dr. Devendra Reddy, Dean Academics, MSSSoA, CUTM

Dean, SoABE have given a presentation on course structure of Dairy Technology. There was a thoroughly discussion on the syllabus of Dairy Technology and the following feedback was suggested by the Experts.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 22/06/2019 were confirmed.

Agenda 2: Revision of Curriculum for the programme B. Tech Dairy Technology

- It was discussed and decided to follow the CBCS structure of 5 Basket systems of Syllabus of School of Engineering & Technology in the B. Tech Dairy Technology programme.
- To the comments of Dr. Anil Kumar Puniya (Academic Expert) Dean, SoABE suggested that, most of the course and course contents have been referred from Dairy Technology course syllabus of ICAR-Fifth Dean's Committee recommendations. Few courses related to economics, extension and management have been removed and in place we have added some advance courses of humanities and management in Basket-II. The food technology courses have been included in food Processing domain course, which can be opted by students. In addition to that, to make students enable to smart technologies few more courses have been added in the form of Smart Stack in Basket-III. Hope this will not affect the passing students for higher studies.



- To the comments to Mr. Harinder Singh Grewal (Industry Expert), Dean SoABE explained that we have cattle yard facilities inside campus and students have opportunities to conduct practices related to cattle feeding and management. In the practice session all the farm practices are already included.
- In Summer training-I students have the exposure on milk production and procurement to be taken up in State Dairy Federations/Dairy Development Departments/Private Dairies/Animal Husbandry Department/Cattle farm/Progressive dairy farmers, where they have field exposure to these activities (Included in summer training-I).
- Chapters regarding Dairy economics, product balancing and preparation of daily balance sheet are added in the syllabus of Dairy Plant Management.
- We will work on the research and development activities. Also, we have included students major project to provide research exposure to students with the involvement of faculties and available institutional facilities.

Agenda 3: Discussion on modification of syllabus of Basket- 4, 5

The Board approved the changes suggested in the core courses. List of new courses is given in Annexure A and existing courses where syllabus was changed in (Annexure B)

Agenda 4: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure C)

The Dean, SoABE, extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoABE

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Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050

HoD, Dairy Technology



Annexure-A

List of new courses added

SI. No	Course Title	Type (Skill/ Employability/ Entrepreneurship	Credit
1	Differential Equations and Linear Algebra	Skill	3
2	Laplace and Fourier Transforms	Skill	3
3	Complex Analysis, Numerical Methods	Skill	3
4	Discrete Mathematics	Skill	3
5	Probability & Statistics	Skill	3
6	Mechanics for Engineers	Skill	3
7	Optics and Optical Fibres	Skill	3
8	Applied Analytical Chemistry	Skill	3
9	Applied Engineering Materials	Skill	3
10	Environmental Studies	Entrepreneurship	2
11	Optimization Techniques	Employability	2
12	Engineering Economics and Costing	Entrepreneurship	3
13	Project Management	Entrepreneurship	3
14	Gender, Human Rights and Ethics	Employability	3
15	Climate Change, Sustainability and Organization	Employability	3
16	Job readiness	Skill	6
17	Industrial IOT and Automation	Employability	6
18	Data Analysis and Visualization using Python	Entrepreneurship	4
19	Machine Learning using Python	Entrepreneurship	4
20	Robotic automation with ROS and C++	Employability	4
21	Design Thinking	Employability	2
22	System Integration with DYMOLA	Employability	2
23	Smart Engineering Project (G2M)	Employability	3
24	Design of structures	Skill	4
25	Dairy and Food Engineering	Entrepreneurship	3
26	Milk Processing in Dairy Industry	Skill and Employability	3
27	Dairy Starters in Fermented Milk Products	Skill and Employability	3
28	Quality Assurance in Dairy Industry	Skill and Employability	3
29	Dairy Products Development	Skill and Employability	3
30	Synbiotic Dairy Foods	Skill and Employability	3
31	Quality Analysis of Milk and Milk Products	Skill and Employability	3
32	AELP Linked Project and Internship	Employability	10



Annexure-B

List of existing courses where syllabus was changed

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
1	Fundamentals of Microbiology/General Microbiology	2	Aligned with CMB General Microbiology course
2	Biochemistry/Fundamentals of Plant Biochemistry		Aligned with B. Sc. Agriculture courses
3	Thermodynamics	2	Credits modified
4	Heat and Mass Transfer	1	Credits modified
5	Basic Electrical Engineering	2	Credits modified
6	Fluid Mechanics with FVM	3	Credits modified and FVM added
7	Dairy and Food Engineering	2	Dairy engineering and Food engineering merged



Annexure-C

List of Skill courses

SI. No	Course Title	Credit	(T+P+P)
1	Introduction to Quantum Computing	4	0+3+1
2	Organic Farming	4	0+3+1
3	Mushroom Farming	4	0+3+1
4	Hydroponics Technology	4	0+3+1
5	Poultry Farming	4	0+3+1
6	Dairy Farming	4	0+3+1
7	Vermi composting Farming	4	0+3+1
8	Transformer Manufacturing, Repairing and Maintenance	4	0+3+1
9	Electrical Installation	4	0+3+1
10	Repair and Maintenance of Home Appliances	4	0+3+1
11	Refrigeration and air conditioning	4	0+3+1
12	Super critical Co2 plant operation	4	0+3+1
13	Business Plan Preparation	4	0+3+1
14	Composite fabrication practice	4	0+3+1
15	Powder coating practice	4	0+3+1
16	Farm appliances operation	4	0+3+1
17	Bio fertilizers preparation	4	0+3+1
18	PCB designing & fabrication	4	0+3+1
19	Introduction to Block Chain Technology	4	0+3+1
20	Introduction to Nutraceuticals	4	0+3+1
21	Introduction to NLP	4	0+3+1
22	Introduction to Computational Biology	4	0+3+1
23	Product Life Cycle Management through Gate process	4	0+3+1
24	New material development with Biovia	4	0+3+1
25	Spectral image processing using Python	4	0+3+1
26	Satellite data processing	4	0+3+1
27	Working with Graphene and carbon fibre	4	0+3+1
28	Adobe Tools and Illustrations	4	0+3+1
29	Digital Painting	4	0+3+1
30	Computer Installation and Maintenance	4	0+3+1



List of Domain courses

Group B:	All other engineering/physical and mathe	matical sc	eience/vocational	or skills
Group C:	Pharmacy and allied Health			
Group D:	Management & media and communication	n		
Sl. No.	Name of the Domain	Credit	Category	Year of introduction
1	Advance Video Processing, Computer Vision and Machine Learning	30	A/B/D	2020
2	Aerial Survey and Remote Sensing Applications	18	A/B	2020
3	Agri Business Management	23	A/B/D	2020
4	Architectural and Structural Design	20	A/B	2020
5	Business Analytics	21	A/B/D	2020
6	Chip Design and Fabrication using VLSI	18	В	2020
7	Commodity and Food Storage	29	A/B/D	2020
8	Communication Systems	18	В	2020
9	Composite Design and Manufacturing	24	A/B	2020
10	Computational Fluid Dynamics	20	A/B	2020
11	Cyber Security	24	В	2020
12	Dairy Processing and Development	28	A/B	2020
13	Fish Processing Technology	29	A/B	2020
14	Food Processing	29	A/B/D	2020
15	Gaming and Immersive Learning (AR & VR)	20	A/B/D	2020
16	Go-To-Market	22	A/B/D	2020
17	Health Care Assistancy	25	A/B	2020
18	Manufacturing Execution System	18	В	2020



19	Nutraceuticals	29	A/C	2020
20	Protected Horticulture	29	A/B	2020
21	Renewable Energy Applications	22	A/B	2020
22	Smart Agriculture	29	A/B	2020
23	Smart Farm Machinery	28	A/B	2020
24	Soil and Water Conservation through Watershed	28	A/B	2020

List of value added courses

SI. No	Course Title	Hrs. of input
1	Natural Resource Management	30
2	Research Methodology and IPR	30
3	Urban Gardens using Hydroponics	30
4	Introduction to Python	30
5	MATLAB	30
6	Waste to Wealth	30
7	Technical Writing	30
8	Organic Farming	30
9	Disaster Management	30
10	Ethical Hacking	30
11	Web Development	30
12	Food & Nutrition	30
13	Clinical Practice	30
14	Innovation Management	30
15	Financial Literacy	30
16	Yoga and Meditation	30
17	Steps for Career Plan	30
18	MS Excel Basics	30
19	Quality Analysis	30
20	Ethical Writing Practice	30
21	Ansys	30
22	Video Making for Youtubers	30



School of Agricultural & Bio-Engineering

Department of Dairy Technology

Time: 12.00 PM

Date: 11/07/2020

Venue: Board Room, CUTM, Bhubaneswar

Board of Studies Meeting Attendance Sheet

SI. No.	Name of the BOSOrganizationMember(Internal Faculty and External Resource)		Member(Internal Faculty		Signature
1	Dr. Supriya Pattanaik	CUTM	Attended Online		
2	Dr. Anita Patra	CUTM	Attended Online		
3	Dr. P.K. Mohanty	Dean, Academics	Attended Online		
4	Dr. Sivala Kumar	Dean, SOABE	Attended Online		
5	Dr. Anil Kumar Puniya	PS and Head, Dairy Microbiology, ICAR-NDRI, Karnal	Attended online		
6	Mr. Harinder Singh Grewal	Ex. General Manager (Retd.), Milkfed Punjab.	Attended online		
7	Dr. Gitanjali Behera	CUTM	Attended Online		
8	Dr. Prasant Kumar Choudhury	CUTM	Attended Online		
9	Dr. SP Nanda	CUTM	Attended Online		
10	Dr. Devendra Reddy	CUTM	Attended Online		
11	Mr. Bhisma Narayan Rath	CUTM	Attended Online		

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Dean, SoABE

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Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050



School of Management

Date: 17.07.2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Venue: Online Zoom Platform

Time: 3.00 pm

The Board of Studies (BoS) meeting of School of Management was held on 11.07.2020 at 3.00 p.m. on the online zoom platform. The following members were participated:

- 1. Dr. Anita Patra, Registrar, CUTM
- 2. Dr. Prasanta Kumar Mohanty, Dean, Academics, CUTM
- 3. Dr. Ranjan Kumar Bal, Retd. Professor, Utkal University
- 4. Mr. Aditya Sapru, Managing Director, Neumck Strategy and Advisory, Bangalore
- Mr. N M Prusty, President Humanitarian Aid International, Chief Mentor and Director at Centre for Development and Disaster Managemenet Support Services (CDDMASS), Chairperson-Sphere India
- 6. Dr. Sunil Chaturvedi, Director-Pharma Network at SVKM's Pharma Schools Mumbai, Shirpur, Dhule, Hyd & NMIMS's SPPSPTM & SBM's MBA Pharma Management
- 7. Dr. Subhendu Mishra, PGP Coordinator, SoM, CUTM
- 8. Dr. Girija Nandini, PGP Coordinator, SoM, CUTM
- 9. Dr. Bibhunandini Das, UGP Coordinator, SoM, CUTM
- 10. Dr. Pramod Kumar Patjoshi, B. Com Program Coordinator, SoM, CUTM
- 11. Dr. Umakanta Nayak, Dean, SoM, CUTM

The Chairperson, CUTM welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dean, SoM presented the achievements and improvements of the School in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 22.06.2019 were confirmed.

Agenda 2: Discussion and approval on revision required in the Curriculum of MBA Program

- The Dean, SoM presented the MBA curriculum based on the feedback and suggestions made by the various stakeholders. Board discussed the curriculum throughly and approved the following suggestions for course revision to be implemented from the Academic Year 2020-21 (Annexure-I).
 - o A basket structure was developed for students to acquire credits as per their choices
 - New courses were incorporated in baskets

Agenda 3: Discussion and approval on revision required in the Curriculum of MBA – RUDM & ABM Program

 MBA – RUDM & ABM curriculum was presented based on the feedback and suggestions made by the various stakeholders. Board discussed the curriuculum throughly and approved the



following suggestions for course revision to be implemented from the Academic Year 2020-21 (Annexure-II).

- The nomenclature of the program was changed to MBA- Rural and Urban Development Management & Agri-Business Management
- New courses were incorporated in the sullabus

Agenda 4: Discussion and approval on revision required in the Curriculum of BBA program

- BBA syllabus revision was presented based on the suggestions made by the various stakeholders. The Board accepted and approved the following changes to curriculum to be implemented from the Academic Year 2020-21 (Annexure-III).
 - A basket structure was introduced for students to acquire credits as per their choices
 - New courses were incorporated in baskets
 - o Generic Elective Basket covered courses from Skill Basket of the University

Agenda 5: Discussion and approval on revision required in the Curriculum of B.Com program

- B.Com syllabus revision was presented based on the suggestions made by the various stakeholders. The Board accepted and approved the following changes to curriculum to be implemented from the Academic Year 2020-21 (Annexure-IV).
 - o A basket structure was introduced for students to acquire credits as per their choices
 - New courses were incorporated in baskets

Agenda 6: Inclusion of courses on life skills and value addition

Various courses were presented to be offered by the University in the areas of life skills and value addition for the overall improvement and well being of students. The same was agreed upon and approved by the Board members. (Annexure-V)

The Dean, SoM extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

School of Management Centurion University, Odisha

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Centurion University of Technology & Management Bhubaneswar, Khurda. Cdisha-752050



Annexure-I

MBA Programme				
Basket	Basket Category	Minimum Credits to be acquired	Scope	
T	Foundation	30	Core	
<u>I</u>	Digital Technologies	06	Choice	
III	Management Potential Development	36	Core	
IV	Sustainability	06	Core	
V	Electives/ Domain Courses	24	Choice	
VI	Summer Internship	04	Choice	
	Total Credits	106		

MBA Course Structure with different baskets

List of new courses added in MBA

SI. No	Course Title	Type (Skill/ Employability/ Entrepreneurship	Credit
Basket-I	Foundation Courses		
1	Job Readiness	Employability	3
2	Quantitative Techniques	Employability	5
3	Micro Economics	Employability & Entrepreneurship	4
4	Economic Environment of Business	Employability	4
5	Principles of Management	Employability	2
6	Basics of Design Thinking	Employability & Entrepreneurship	2
7	Data Analysis and Visualization Using Python	Skill Development	4
	I Digital Technologies		_
8	Introduction to AI/ML	Employability	1
9	Introduction Data Analytics	Employability	1
10	Introduction Additive Manufacturing/3D Printing	Employability	1
11	Introduction to AR/VR	Employability	1
12	Introduction to Emerging Mobility Solutions	Employability	1
13	Introduction to Blockchain	Employability	1
14	Introduction to Robotics	Employability	1
	III Management Potential Development		
15	Introduction to PLM (Platforms such as 3DS)	Employability, Entrepreneurship	2
16	Designing User/Customer Experience (UX/CX)	Skill Development	2
	IV Sustainability		
17	Gender, Human Rights and Ethics	Employability	3
18	Climate Change, Sustainability and Organisation	Employability	3
	V Electives/Domain		



19	Financial Analysis and Visualization	Employability	4
20	Robotics Process Automation (RPA) in Finance	Employability & Entrepreneurship	4
21	Services & Financial Services Marketing	Employability	4
22	Retail & Etail Management	Employability & Entrepreneurship	4
23	Business Analytics	Skill development	4



Annexure-II

List of new courses added in MBA DM & ABM

SI. No	Course Title	Type (Skill/Employability/ Entrepreneurship)	Credit
Semeste	r-I		
1	Micro Economics	Employability & Entrepreneurship	4
2	Contemporary Development Communication	Employability	4
3	Data Analysis using Excel and Python	Skill Development	4
4	Indian Society and Culture	Employability	2
5	Gender, Human Rights and Ethics	Employability	3
Semeste	r-II		
6	Development Theory and Practice	Employability and Skill Development	4
7	Economic Environment for Business	Employability	4
8	Rural Marketing	Employability & Entrepreneurship	4
9	Climate change and Sustainable Development	Employability	3
10	Job Readiness: Employability	Employability	0
Semeste	er-III		
11	Strategic Management	Employability	4
12	Community Organization and Development	Employability	2
13	Food Security and Right to Food	Employability	2
14	Organization Behaviour	Employability	4
Semeste	er-IV		
15	Human Resource Management and Organisation Development	Employability, Entrepreneurship	4
16	Public Policy: Design, Analysis and Implementation	Employability and Skill Development	4
17	Social Entrepreneurship and CSR	Entrepreneurship	2
18	Digital and Social Media Marketing	Employability, Entrepreneurship	2
19	Local Governance systems	Employability	2



20	Community Owned and Managed Businesses	Employability	2
21	Management of Rural Health	Employability	2
22	Management of Rural Education	Employability	2
23	Sustainable Rural Livelihoods	Employability	2
24	Managing Watersheds	Employability & Skill	2
25	M&E of Development Projects	Employability & Entrepreneurship	2
26	Poverty reduction strategies	Employability	2
27	Issues in Tribal Development	Employability	2
28	Extension strategies for development	Employability	2
29	Fund Raising for Social Cause	Employability & Entrepreneurship	2



Annexure-III

Basket	Basket Category	Minimum Credits to be acquired	Scope
I	Core Discipline	84	Core
11	Discipline Specific Elective	24	Choice
	Generic/ Interdisciplinary Elective	24	Choice
IV	Skill Enhancement courses	06	Core
V	Ability Enhancement Courses (AECC)	10	Core
	Total Credits	148	

BBA Course Structure

List of new courses added in BBA:

Sl. No	Course Title	Type (Skill/Employability/ Entrepreneurship)	Credit
Basket-I			1
1	Fundamentals of Management	Employability and entrepreneurship	4
2	Quantitative Techniques for Management	Employability	6
3	Business Policy and Strategy	Employability & Entrepreneurship	6
Basket-l	II		
4	Advanced Managerial Accounting	Employability & Entrepreneurship	6
5	Financial Institutions, Markets & Services	Employability	6
6	Commercial Banking and ALM	Employability	6
7	Current Asset Management	Employability & Entrepreneurship	6
8	Financial Analysis and Visualization	Employability & Skill Development	6
9	Robotics Process Automation (RPA) in Finance	Employability & Skill Development	6
10	Rural Marketing	Employability & Skill Development	6
11	Sales and Distribution Management	Employability	6
12	Services & Financial Services Marketing	Employability	6



13	Digital Marketing & Marketing Communications	Employability	6
14	Retail & Etail Management	Employability & Entrepreneurship	6
15	B2B Marketing	Employability	6
Basket	-111		
16	University Skill Basket	Skill Development	Each course of 4 credits
Basket			
17	Job Readiness	Employability	6
18	Environmental Science	Employability	4
		Total	98



Annexure-IV

Basket	Basket Category	Minimum Credits to be acquired	Scope
I	Core Discipline	84	Core
II	Discipline Specific Elective	24	Choice
III	Generic/ Interdisciplinary Elective	24	Choice
IV	Skill Enhancement courses	06	Core
V	Ability Enhancement Courses (AECC)	08	Core
	Total Credits	146	

B.Com Course Structure

List of new courses added in B.Com:

SI. No	Course Title	Type (Skill/Employability/ Entrepreneurship)	Credit
1	Human Resource Management	Employability & Entrepreneurship	6
2	Principles of Marketing	Employability & Entrepreneurship	6
		Total	12



Annexure-V

Sl. No.	Course Title	Credit
1	Introduction to Quantum Computing	4
2	Organic Farming	4
3	Mushroom Farming	4
4	Hydroponics Technology	4
5	Poultry Farming	4
6	Dairy Farming	4
7	Vermicomposting Farming	4
8	Transformer Manufacturing, Repairing and Maintenance	4
9	Electrical Installation	4
10	Repair and Maintenance of Home Appliances	4
11	Refrigeration and air conditioning	4
12	Super critical Co2 plant operation	4
13	Business Plan Preparation	4
14	Composite fabrication practice	4
15	Powder coating practice	4
16	Farm appliances operation	4
17	Bio fertilisers preparation	4
18	PCB designing & fabrication	4
19	Introduction to Block Chain Technology	4
20	Introduction to Nutraceuticals	4
21	Introduction to NLP	4
22	Introduction to Computational Biology	4
23	Product Life Cycle Management through Gate process	4
24	New material development with Biovia	4
25	Spectral image processing using Python	4
26	Satellite data processing	4
27	Working with Graphene and carbon fibre	4
28	Adobe Tools and Illustrations	4
29	Digital Painting	4
30	Computer Installation and Maintenance	4

Value Added courses approved by university

	Course Title	Credit
1	Natural Resource Management	30 Hours
		30 Hours
2	Research Methodology and IPR	



3	Urban Gardens using Hydroponics	30 Hours
4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organic Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	30 Hours
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
15	Financial Literacy	30 Hours
16	Yoga and Meditation	30 Hours
17	Steps for Career Plan	30 Hours
18	MS Excel Basics	30 Hours
19	Quality Analysis	30 Hours
20	Ethical Writing Practice	30 Hours
21	Ansys	30 Hours
22	Video Making for Youtubers	30 Hours
23	Natural Resource Management	30 Hours

University-wide Domains for School of Management

1	DACU2200	Data Analytics- Visualisation	20
2	BACU2210	Business Analytics	18
3	MLCU2000	Data Science and Machine Learning	26
4	ARCU2060	Gaming and Immersive Learning (AR & VR)	20
5	GMCU2140	GO-TO-MARKET(3D Experience)	22
6	FPCU2310	Food Processing	29
7	ABCU2320	Agri Business Management	23
8	FSCU2330	Commodity and Food Storage	29



School of Management

Time: 3.00 pm

Date: 11.07.2020

Venue: Online Zoom Platform

Board of Studies Meeting

Attendance Sheet

SI.No.	Name of the Member	Designation	Signature
1	Dr. Prasanta Kumar Mohanty	Dean Academics, CUTM	Joined Online
2	Dr. Ranjan Kumar Bal	Retd. Professor, Utkal University	Joined Online
3	Mr. Aditya Sapru	Managing Director, Neumck Strategy and Advisory, Bangalore	Joined Online
4	Mr. N M Prusty	President Humanitarian Aid International, Chief Mentor and Director at Centre for Development and Disaster Managemenet Support Services (CDDMASS), Chairperson-Sphere India	Joined Online
5	Dr. Sunil Chaturvedi	Director-Pharma Network at SVKM's Pharma Schools Mumbai, Shirpur, Dhule, Hyd & NMIMS's SPPSPTM & SBM's MBA Pharma Management	Joined Online
6	Dr. Subhendu Mishra	PGP Coordinator, SoM, CUTM	Joined Online
7	Dr. Girija Nandini	PGP Coordinator, SoM, CUTM	Joined Online
8	Dr. Bibhunandini Das	UGP Coordinator, SoM, CUTM	Joined Online
9	Dr. Pramod Kumar Patjoshi	B. Com Program Coordinator, SoM, CUTM	Joined Online
10	Dr. Umakanta Nayak	Dean, SoM, CUTM	Joined Online

Dean, SoM

Dean School of Management Centurion University, Odisha

Ascher

Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



School of Management

Date: 17.07.2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Venue: Online Zoom Platform

Time: 3.00 pm

The Board of Studies (BoS) meeting of School of Management was held on 11.07.2020 at 3.00 p.m. on the online zoom platform. The following members were participated:

- 1. Dr. Anita Patra, Registrar, CUTM
- 2. Dr. Prasanta Kumar Mohanty, Dean, Academics, CUTM
- 3. Dr. Ranjan Kumar Bal, Retd. Professor, Utkal University
- 4. Mr. Aditya Sapru, Managing Director, Neumck Strategy and Advisory, Bangalore
- Mr. N M Prusty, President Humanitarian Aid International, Chief Mentor and Director at Centre for Development and Disaster Managemenet Support Services (CDDMASS), Chairperson-Sphere India
- 6. Dr. Sunil Chaturvedi, Director-Pharma Network at SVKM's Pharma Schools Mumbai, Shirpur, Dhule, Hyd & NMIMS's SPPSPTM & SBM's MBA Pharma Management
- 7. Dr. Subhendu Mishra, PGP Coordinator, SoM, CUTM
- 8. Dr. Girija Nandini, PGP Coordinator, SoM, CUTM
- 9. Dr. Bibhunandini Das, UGP Coordinator, SoM, CUTM
- 10. Dr. Pramod Kumar Patjoshi, B. Com Program Coordinator, SoM, CUTM
- 11. Dr. Umakanta Nayak, Dean, SoM, CUTM

The Chairperson, CUTM welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dean, SoM presented the achievements and improvements of the School in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 22.06.2019 were confirmed.

Agenda 2: Discussion and approval on revision required in the Curriculum of MBA Program

- The Dean, SoM presented the MBA curriculum based on the feedback and suggestions made by the various stakeholders. Board discussed the curriculum throughly and approved the following suggestions for course revision to be implemented from the Academic Year 2020-21 (Annexure-I).
 - o A basket structure was developed for students to acquire credits as per their choices
 - New courses were incorporated in baskets

Agenda 3: Discussion and approval on revision required in the Curriculum of MBA – RUDM & ABM Program

 MBA – RUDM & ABM curriculum was presented based on the feedback and suggestions made by the various stakeholders. Board discussed the curriuculum throughly and approved the



following suggestions for course revision to be implemented from the Academic Year 2020-21 (Annexure-II).

- The nomenclature of the program was changed to MBA- Rural and Urban Development Management & Agri-Business Management
- New courses were incorporated in the sullabus

Agenda 4: Discussion and approval on revision required in the Curriculum of BBA program

- BBA syllabus revision was presented based on the suggestions made by the various stakeholders. The Board accepted and approved the following changes to curriculum to be implemented from the Academic Year 2020-21 (Annexure-III).
 - A basket structure was introduced for students to acquire credits as per their choices
 - New courses were incorporated in baskets
 - o Generic Elective Basket covered courses from Skill Basket of the University

Agenda 5: Discussion and approval on revision required in the Curriculum of B.Com program

- B.Com syllabus revision was presented based on the suggestions made by the various stakeholders. The Board accepted and approved the following changes to curriculum to be implemented from the Academic Year 2020-21 (Annexure-IV).
 - o A basket structure was introduced for students to acquire credits as per their choices
 - New courses were incorporated in baskets

Agenda 6: Inclusion of courses on life skills and value addition

Various courses were presented to be offered by the University in the areas of life skills and value addition for the overall improvement and well being of students. The same was agreed upon and approved by the Board members. (Annexure-V)

The Dean, SoM extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

School of Management Centurion University, Odisha

Porsar

Centurion University of Technology & Management Bhubaneswar, Khurda. Cdisha-752050



Annexure-I

	MBA Programme				
Basket	Basket Category	Minimum Credits to be acquired	Scope		
I	Foundation	30	Core		
<u>I</u>	Digital Technologies	06	Choice		
III	Management Potential Development	36	Core		
IV	Sustainability	06	Core		
V	Electives/ Domain Courses	24	Choice		
VI	Summer Internship	04	Choice		
Contraction of the second	Total Credits	106			

MBA Course Structure with different baskets

List of new courses added in MBA

SI. No	Course Title	Type (Skill/ Employability/ Entrepreneurship	Credit
Basket-I	Foundation Courses		-
1	Job Readiness	Employability	3
2	Quantitative Techniques	Employability	5
3	Micro Economics	Employability & Entrepreneurship	4
4	Economic Environment of Business	Employability	4
5	Principles of Management	Employability	2
6	Basics of Design Thinking	Employability & Entrepreneurship	2
7	Data Analysis and Visualization Using Python	Skill Development	4
	I Digital Technologies		
8	Introduction to AI/ML	Employability	1
9	Introduction Data Analytics	Employability	1
10	Introduction Additive Manufacturing/3D Printing	Employability	1
11	Introduction to AR/VR	Employability	1
12	Introduction to Emerging Mobility Solutions	Employability	1
13	Introduction to Blockchain	Employability	1
14	Introduction to Robotics	Employability	1
	III Management Potential Development		
15	Introduction to PLM (Platforms such as 3DS)	Employability, Entrepreneurship	2
16	Designing User/Customer Experience (UX/CX)	Skill Development	2
	IV Sustainability		
17	Gender, Human Rights and Ethics	Employability	3
18	Climate Change, Sustainability and Organisation	Employability	3



19	Financial Analysis and Visualization	Employability	4
20	Robotics Process Automation (RPA) in Finance	Employability & Entrepreneurship	4
21	Services & Financial Services Marketing	Employability	4
22	Retail & Etail Management	Employability & Entrepreneurship	4
23	Business Analytics	Skill development	4



Annexure-II

List of new courses added in MBA DM & ABM

SI. No	Course Title	Type (Skill/Employability/ Entrepreneurship)	Credit
Semeste	r-I		
1	Micro Economics	Employability & Entrepreneurship	4
2	Contemporary Development Communication	Employability	4
3	Data Analysis using Excel and Python	Skill Development	4
4	Indian Society and Culture	Employability	2
5	Gender, Human Rights and Ethics	Employability	3
Semeste	r-II		
6	Development Theory and Practice	Employability and Skill Development	4
7	Economic Environment for Business	Employability	4
8	Rural Marketing	Employability & Entrepreneurship	4
9	Climate change and Sustainable Development	Employability	3
10	Job Readiness: Employability	Employability	0
Semeste	er-III		
11	Strategic Management	Employability	4
12	Community Organization and Development	Employability	2
13	Food Security and Right to Food	Employability	2
14	Organization Behaviour	Employability	4
Semeste	er-IV		
15	Human Resource Management and Organisation Development	Employability, Entrepreneurship	4
16	Public Policy: Design, Analysis and Implementation	Employability and Skill Development	4
17	Social Entrepreneurship and CSR	Entrepreneurship	2
18	Digital and Social Media Marketing	Employability, Entrepreneurship	2
19	Local Governance systems	Employability	2



20	Community Owned and Managed Businesses	Employability	2
21	Management of Rural Health	Employability	2
22	Management of Rural Education	Employability	2
23	Sustainable Rural Livelihoods	Employability	2
24	Managing Watersheds	Employability & Skill	2
25	M&E of Development Projects	Employability & Entrepreneurship	2
26	Poverty reduction strategies	Employability	2
27	Issues in Tribal Development	Employability	2
28	Extension strategies for development	Employability	2
29	Fund Raising for Social Cause	Employability & Entrepreneurship	2



Annexure-III

Basket	Basket Category	Minimum Credits to be acquired	Scope
1	Core Discipline	84	Core
11	Discipline Specific Elective	24	Choice
III	Generic/ Interdisciplinary Elective	24	Choice
IV	Skill Enhancement courses	06	Core
V	Ability Enhancement Courses (AECC)	10	Core
	Total Credits	148	

BBA Course Structure

List of new courses added in BBA:

Sl. No	Course Title	Type (Skill/Employability/ Entrepreneurship)	Credit
Basket-I			
1	Fundamentals of Management	Employability and entrepreneurship	4
2	Quantitative Techniques for Management	Employability	6
3	Business Policy and Strategy	Employability & Entrepreneurship	6
Basket-l	I		
4	Advanced Managerial Accounting	Employability & Entrepreneurship	6
5	Financial Institutions, Markets & Services	Employability	6
6	Commercial Banking and ALM	Employability	6
7	Current Asset Management	Employability & Entrepreneurship	6
8	Financial Analysis and Visualization	Employability & Skill Development	6
9	Robotics Process Automation (RPA)	Employability & Skill Development	6
10	Rural Marketing	Employability & Skill Development	6
11	Sales and Distribution Management	Employability	6
12	Services & Financial Services Marketing	Employability	6



13	Digital Marketing & Marketing Communications	Employability	6
14	Retail & Etail Management	Employability & Entrepreneurship	6
15	B2B Marketing	Employability	6
Basket	-111		
16	University Skill Basket	Skill Development	Each course of 4 credits
Basket	-V		
17	Job Readiness	Employability	6
18	Environmental Science	Employability	4
		Total	98



Annexure-IV

Basket	Basket Category	Minimum Credits to be acquired	Scope
I	Core Discipline	84	Core
II	Discipline Specific Elective	24	Choice
III	Generic/ Interdisciplinary Elective	24	Choice
IV	Skill Enhancement courses	06	Core
V	Ability Enhancement Courses (AECC)	08	Core
	Total Credits	146	

B.Com Course Structure

List of new courses added in B.Com:

SI. No	Course Title	Type (Skill/Employability/ Entrepreneurship)	Credit
1	Human Resource Management	Employability & Entrepreneurship	6
2	Principles of Marketing	Employability & Entrepreneurship	6
		Total	12



Annexure-V

Sl. No.	Course Title	Credit
1	Introduction to Quantum Computing	4
2	Organic Farming	4
3	Mushroom Farming	4
4	Hydroponics Technology	4
5	Poultry Farming	4
6	Dairy Farming	4
7	Vermicomposting Farming	4
8	Transformer Manufacturing, Repairing and Maintenance	4
9	Electrical Installation	4
10	Repair and Maintenance of Home Appliances	4
11	Refrigeration and air conditioning	4
12	Super critical Co2 plant operation	4
13	Business Plan Preparation	4
14	Composite fabrication practice	4
15	Powder coating practice	4
16	Farm appliances operation	4
17	Bio fertilisers preparation	4
18	PCB designing & fabrication	4
19	Introduction to Block Chain Technology	4
20	Introduction to Nutraceuticals	4
21	Introduction to NLP	4
22	Introduction to Computational Biology	4
23	Product Life Cycle Management through Gate process	4
24	New material development with Biovia	4
25	Spectral image processing using Python	4
26	Satellite data processing	4
27	Working with Graphene and carbon fibre	4
28	Adobe Tools and Illustrations	4
29	Digital Painting	4
30	Computer Installation and Maintenance	4

Value Added courses approved by university

	Course Title	Credit
1	Natural Resource Management	30 Hours
		30 Hours
2	Research Methodology and IPR	



3	Urban Gardens using Hydroponics	30 Hours
4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organic Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	30 Hours
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
15	Financial Literacy	30 Hours
16	Yoga and Meditation	30 Hours
17	Steps for Career Plan	30 Hours
18	MS Excel Basics	30 Hours
19	Quality Analysis	30 Hours
20	Ethical Writing Practice	30 Hours
21	Ansys	30 Hours
22	Video Making for Youtubers	30 Hours
23	Natural Resource Management	30 Hours

University-wide Domains for School of Management

1	DACU2200	Data Analytics- Visualisation	20
2	BACU2210	Business Analytics	18
3	MLCU2000	Data Science and Machine Learning	26
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5	GMCU2140	GO-TO-MARKET(3D Experience)	22
6	FPCU2310	Food Processing	29
7	ABCU2320	Agri Business Management	23
8	FSCU2330	Commodity and Food Storage	29



School of Management

Time: 3.00 pm

Date: 11.07.2020

Venue: Online Zoom Platform

Board of Studies Meeting

Attendance Sheet

SI.No.	Name of the Member	Designation	Signature
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8	Dr. Bibhunandini Das	UGP Coordinator, SoM, CUTM	Joined Online
9	Dr. Pramod Kumar Patjoshi	B. Com Program Coordinator, SoM, CUTM	Joined Online
10	Dr. Umakanta Nayak	Dean, SoM, CUTM	Joined Online

Dean, SoM

Dean School of Management Centurion University, Odisha

Ascher

Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



School of Management

Date: 17.07.2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Venue: Online Zoom Platform

Time: 3.00 pm

The Board of Studies (BoS) meeting of School of Management was held on 11.07.2020 at 3.00 p.m. on the online zoom platform. The following members were participated:

- 1. Dr. Anita Patra, Registrar, CUTM
- 2. Dr. Prasanta Kumar Mohanty, Dean, Academics, CUTM
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- 7. Dr. Subhendu Mishra, PGP Coordinator, SoM, CUTM
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- 9. Dr. Bibhunandini Das, UGP Coordinator, SoM, CUTM
- 10. Dr. Pramod Kumar Patjoshi, B. Com Program Coordinator, SoM, CUTM
- 11. Dr. Umakanta Nayak, Dean, SoM, CUTM

The Chairperson, CUTM welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dean, SoM presented the achievements and improvements of the School in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 22.06.2019 were confirmed.

Agenda 2: Discussion and approval on revision required in the Curriculum of MBA Program

- The Dean, SoM presented the MBA curriculum based on the feedback and suggestions made by the various stakeholders. Board discussed the curriculum throughly and approved the following suggestions for course revision to be implemented from the Academic Year 2020-21 (Annexure-I).
 - o A basket structure was developed for students to acquire credits as per their choices
 - New courses were incorporated in baskets

Agenda 3: Discussion and approval on revision required in the Curriculum of MBA – RUDM & ABM Program

 MBA – RUDM & ABM curriculum was presented based on the feedback and suggestions made by the various stakeholders. Board discussed the curriuculum throughly and approved the



following suggestions for course revision to be implemented from the Academic Year 2020-21 (Annexure-II).

- The nomenclature of the program was changed to MBA- Rural and Urban Development Management & Agri-Business Management
- New courses were incorporated in the sullabus

Agenda 4: Discussion and approval on revision required in the Curriculum of BBA program

- BBA syllabus revision was presented based on the suggestions made by the various stakeholders. The Board accepted and approved the following changes to curriculum to be implemented from the Academic Year 2020-21 (Annexure-III).
 - A basket structure was introduced for students to acquire credits as per their choices
 - New courses were incorporated in baskets
 - o Generic Elective Basket covered courses from Skill Basket of the University

Agenda 5: Discussion and approval on revision required in the Curriculum of B.Com program

- B.Com syllabus revision was presented based on the suggestions made by the various stakeholders. The Board accepted and approved the following changes to curriculum to be implemented from the Academic Year 2020-21 (Annexure-IV).
 - o A basket structure was introduced for students to acquire credits as per their choices
 - New courses were incorporated in baskets

Agenda 6: Inclusion of courses on life skills and value addition

Various courses were presented to be offered by the University in the areas of life skills and value addition for the overall improvement and well being of students. The same was agreed upon and approved by the Board members. (Annexure-V)

The Dean, SoM extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

School of Management Centurion University, Odisha

Porsar

Centurion University of Technology & Management Bhubaneswar, Khurda. Cdisha-752050



Annexure-I

	MBA Programme				
Basket	Basket Category	Minimum Credits to be acquired	Scope		
T	Foundation	30	Core		
<u>I</u>	Digital Technologies	06	Choice		
III	Management Potential Development	36	Core		
IV	Sustainability	06	Core		
V	Electives/ Domain Courses	24	Choice		
VI	Summer Internship	04	Choice		
	Total Credits	106			

MBA Course Structure with different baskets

List of new courses added in MBA

SI. No	Course Title	Type (Skill/ Employability/ Entrepreneurship	Credit
Basket-I	Foundation Courses		
1	Job Readiness	Employability	3
2	Quantitative Techniques	Employability	5
3	Micro Economics	Employability & Entrepreneurship	4
4	Economic Environment of Business	Employability	4
5	Principles of Management	Employability	2
6	Basics of Design Thinking	Employability & Entrepreneurship	2
7	Data Analysis and Visualization Using Python	Skill Development	4
	I Digital Technologies		_
8	Introduction to AI/ML	Employability	1
9	Introduction Data Analytics	Employability	1
10	Introduction Additive Manufacturing/3D Printing	Employability	1
11	Introduction to AR/VR	Employability	1
12	Introduction to Emerging Mobility Solutions	Employability	1
13	Introduction to Blockchain	Employability	1
14	Introduction to Robotics	Employability	1
	III Management Potential Development		
15	Introduction to PLM (Platforms such as 3DS)	Employability, Entrepreneurship	2
16	Designing User/Customer Experience (UX/CX)	Skill Development	2
	IV Sustainability		
17	Gender, Human Rights and Ethics	Employability	3
18	Climate Change, Sustainability and Organisation	Employability	3
	V Electives/Domain		



19	Financial Analysis and Visualization	Employability	4
20	Robotics Process Automation (RPA) in Finance	Employability & Entrepreneurship	4
21	Services & Financial Services Marketing	Employability	4
22	Retail & Etail Management	Employability & Entrepreneurship	4
23	Business Analytics	Skill development	4



Annexure-II

List of new courses added in MBA DM & ABM

SI. No	Course Title	Type (Skill/Employability/ Entrepreneurship)	Credit
Semeste	r-I		
1	Micro Economics	Employability & Entrepreneurship	4
2	Contemporary Development Communication	Employability	4
3	Data Analysis using Excel and Python	Skill Development	4
4	Indian Society and Culture	Employability	2
5	Gender, Human Rights and Ethics	Employability	3
Semeste	r-II		
6	Development Theory and Practice	Employability and Skill Development	4
7	Economic Environment for Business	Employability	4
8	Rural Marketing	Employability & Entrepreneurship	4
9	Climate change and Sustainable Development	Employability	3
10	Job Readiness: Employability	Employability	0
Semeste	er-III		
11	Strategic Management	Employability	4
12	Community Organization and Development	Employability	2
13	Food Security and Right to Food	Employability	2
14	Organization Behaviour	Employability	4
Semeste	er-IV		
15	Human Resource Management and Organisation Development	Employability, Entrepreneurship	4
16	Public Policy: Design, Analysis and Implementation	Employability and Skill Development	4
17	Social Entrepreneurship and CSR	Entrepreneurship	2
18	Digital and Social Media Marketing	Employability, Entrepreneurship	2
19	Local Governance systems	Employability	2



20	Community Owned and Managed Businesses	Employability	2
21	Management of Rural Health	Employability	2
22	Management of Rural Education	Employability	2
23	Sustainable Rural Livelihoods	Employability	2
24	Managing Watersheds	Employability & Skill	2
25	M&E of Development Projects	Employability & Entrepreneurship	2
26	Poverty reduction strategies	Employability	2
27	Issues in Tribal Development	Employability	2
28	Extension strategies for development	Employability	2
29	Fund Raising for Social Cause	Employability & Entrepreneurship	2



Annexure-III

Basket	Basket Category	Minimum Credits to be acquired	Scope
1	Core Discipline	84	Core
11	Discipline Specific Elective	24	Choice
III	Generic/ Interdisciplinary Elective	24	Choice
IV	Skill Enhancement courses	06	Core
V	Ability Enhancement Courses (AECC)	10	Core
	Total Credits	148	

BBA Course Structure

List of new courses added in BBA:

Sl. No	Course Title	Type (Skill/Employability/ Entrepreneurship)	Credit
Basket-I			
1	Fundamentals of Management	Employability and entrepreneurship	4
2	Quantitative Techniques for Management	Employability	6
3	Business Policy and Strategy	Employability & Entrepreneurship	6
Basket-l	I		
4	Advanced Managerial Accounting	Employability & Entrepreneurship	6
5	Financial Institutions, Markets & Services	Employability	6
6	Commercial Banking and ALM	Employability	6
7	Current Asset Management	Employability & Entrepreneurship	6
8	Financial Analysis and Visualization	Employability & Skill Development	6
9	Robotics Process Automation (RPA)	Employability & Skill Development	6
10	Rural Marketing	Employability & Skill Development	6
11	Sales and Distribution Management	Employability	6
12	Services & Financial Services Marketing	Employability	6



13	Digital Marketing & Marketing Communications	Employability	6
14	Retail & Etail Management	Employability & Entrepreneurship	6
15	B2B Marketing	Employability	6
Basket	-111		
16	University Skill Basket	Skill Development	Each course of 4 credits
Basket	-V		
17	Job Readiness	Employability	6
18	Environmental Science	Employability	4
		Total	98



Annexure-IV

Basket	Basket Category	Minimum Credits to be acquired	Scope
I	Core Discipline	84	Core
II	Discipline Specific Elective	24	Choice
III	Generic/ Interdisciplinary Elective	24	Choice
IV	Skill Enhancement courses	06	Core
V	Ability Enhancement Courses (AECC)	08	Core
	Total Credits	146	

B.Com Course Structure

List of new courses added in B.Com:

SI. No	Course Title	Type (Skill/Employability/ Entrepreneurship)	Credit
1	Human Resource Management	Employability & Entrepreneurship	6
2	Principles of Marketing	Employability & Entrepreneurship	6
		Total	12



Annexure-V

Sl. No.	Course Title	Credit
1	Introduction to Quantum Computing	4
2	Organic Farming	4
3	Mushroom Farming	4
4	Hydroponics Technology	4
5	Poultry Farming	4
6	Dairy Farming	4
7	Vermicomposting Farming	4
8	Transformer Manufacturing, Repairing and Maintenance	4
9	Electrical Installation	4
10	Repair and Maintenance of Home Appliances	4
11	Refrigeration and air conditioning	4
12	Super critical Co2 plant operation	4
13	Business Plan Preparation	4
14	Composite fabrication practice	4
15	Powder coating practice	4
16	Farm appliances operation	4
17	Bio fertilisers preparation	4
18	PCB designing & fabrication	4
19	Introduction to Block Chain Technology	4
20	Introduction to Nutraceuticals	4
21	Introduction to NLP	4
22	Introduction to Computational Biology	4
23	Product Life Cycle Management through Gate process	4
24	New material development with Biovia	4
25	Spectral image processing using Python	4
26	Satellite data processing	4
27	Working with Graphene and carbon fibre	4
28	Adobe Tools and Illustrations	4
29	Digital Painting	4
30	Computer Installation and Maintenance	4

Value Added courses approved by university

	Course Title	Credit
1	Natural Resource Management	30 Hours
		30 Hours
2	Research Methodology and IPR	



3	Urban Gardens using Hydroponics	30 Hours
4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organic Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	30 Hours
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
15	Financial Literacy	30 Hours
16	Yoga and Meditation	30 Hours
17	Steps for Career Plan	30 Hours
18	MS Excel Basics	30 Hours
19	Quality Analysis	30 Hours
20	Ethical Writing Practice	30 Hours
21	Ansys	30 Hours
22	Video Making for Youtubers	30 Hours
23	Natural Resource Management	30 Hours

University-wide Domains for School of Management

1	DACU2200	Data Analytics- Visualisation	20
2	BACU2210	Business Analytics	18
3	MLCU2000	Data Science and Machine Learning	26
4	ARCU2060	Gaming and Immersive Learning (AR & VR)	20
5	GMCU2140	GO-TO-MARKET(3D Experience)	22
6	FPCU2310	Food Processing	29
7	ABCU2320	Agri Business Management	23
8	FSCU2330	Commodity and Food Storage	29



School of Management

Time: 3.00 pm

Date: 11.07.2020

Venue: Online Zoom Platform

Board of Studies Meeting

Attendance Sheet

SI.No.	Name of the Member	Designation	Signature Joined Online	
1	Dr. Prasanta Kumar Mohanty	Dean Academics, CUTM		
2	Dr. Ranjan Kumar Bal	Retd. Professor, Utkal University	Joined Online	
3	Mr. Aditya Sapru	Managing Director, Neumck Strategy and Advisory, Bangalore	Joined Online	
4	Mr. N M Prusty	President Humanitarian Aid International, Chief Mentor and Director at Centre for Development and Disaster Managemenet Support Services (CDDMASS), Chairperson-Sphere India	Joined Online	
5	Dr. Sunil Chaturvedi	Director-Pharma Network at SVKM's Pharma Schools Mumbai, Shirpur, Dhule, Hyd & NMIMS's SPPSPTM & SBM's MBA Pharma Management	Joined Online	
6	Dr. Subhendu Mishra	PGP Coordinator, SoM, CUTM	Joined Online	
7	Dr. Girija Nandini	PGP Coordinator, SoM, CUTM	Joined Online	
8	Dr. Bibhunandini Das	UGP Coordinator, SoM, CUTM	Joined Online	
9	Dr. Pramod Kumar Patjoshi	B. Com Program Coordinator, SoM, CUTM	Joined Online	
10	Dr. Umakanta Nayak	Dean, SoM, CUTM	Joined Online	

Dean, SoM

Dean School of Management Centurion University, Odisha

Ascher

Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



MS Swaminathan School of Agriculture

Date: 11.07.2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020(Online mode)

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of MS Swaminathan School of Agriculture was held on 11.07.2020 in online mode. The following members were present:

- 1. Prof.P.K.Mahapatro
- 2. Prof.B K Mishra
- 3. Dr R N Sahoo
- 4. Dr K K Singh
- 5. K. Satya Krishna Prasad
- 6. Mr. Morup Namgail,
- 7. Prof. M.Devender Reddy
- 8. Prof. Satya Prasad Nanda
- 9. HOD Agronomy
- 10. HOD Plant Pathology
- 11. HOD Entomology
- 12. HOD Soil Science
- 13. HOD Extension
- 14. HOD GBP
- 15. HOD Biotechnology
- 16. HOD Plant Physiology
- 17. HOD Horticulture
- 18. Alumni

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dean of the MS Swaminathan School of Agriculture presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 22.06.2019 were confirmed.

Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Sc Agriculture

All the external BoS members appreciated the structure and course outline of different courses and domains. They mentioned that the courses are well structured, organized and application oriented as per academics and industry is concerned. They also appreciated the on-line class delivery initiative of the University.



Dr. K. K. Singh suggested that the course should emphasize on modern technological intervention such as AI Technology, Digital Mapping, Soil Analysis replaced by dry method. Students should be able to adjust themselves for new innovations in the field of Agriculture.

K. Satya Krishna Prasad, Vice President, Crop Operations and Sustainability, ITC Limited suggested the need of industry experiences and support which will lead CUTM to compete with other such university offering BSc Agriculture Course. In addition to it, the course should promote future entrepreneurs.

Mr. Morup Namgail, Head Agri-Tech, IFFCO provided the outlook of current industry hiring and suggested to give emphasis on Digital Marketing Skills and Promoting personality development of the students. He also suggested that the domain courses should be a team work with specific target to achieve.

Prof. P K Mahapatro, Retd. Dean, OUAT, appreciated and lauded the faculty and management for developing the core courses and domains. He suggested to introduce Artificial intelligence in curriculum which has a great importance in Agriculture.

Prof. R. N. Sahu, Principal Scientist, IARI, New Delhi suggested to prepare a curriculum through which we can compete with the real world class universities around us. He emphasized to minimize the content and orient students towards entrepreneurship and start ups. He suggested to introduce data analytics, IOT & sensors in Agriculture and allied courses.

Prof. Anita Patra, Registrar, CUTM clarified the members that the students will be exposed to digital marketing when they register for domain

Discussion and Resolutions taken (Syllabus/Evaluation systems etc.);

Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members.

Discussion and Resolutions taken (Syllabus/Evaluation systems etc.);

1. Focus should be given to modern technologies like AI, IOT, Sensors, digital mapping etc.

2. Students should be more and more exposed towards industries and gain industrial experience, entrepreneurship skills and start ups.

- 3. Students should be trained in Digital Marketing Skills and in improving the personality
- Type of curriculum; CBCS/Elective/NEP:
- Percentage of courses added to new curriculum:
- List of existing courses where syllabus was changed



The Dean, MS Swaminathan School of Agriculture. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

nend Convenor of BoS & Dean, MSSSoA

Dean Administration



M S Swaminathan School of Agriculture

Time: 11.00 a.m.

Date: 11.07 2020

Venue: Online

Board of Studies Meeting

Attendance Sheet

SI.No.	Name of the Member	Designation	Signature
1	Dr.K.K.Singh	Zuari Agro Chemicals Limited	attended online
2	Prof. K. Satya Krishna Prasad	Vice President, Crop Operations and Sustainability, ITC Limited	attended online
3	Mr. Morup Namgail	Head Agri-Tech, IFFCO	attended online
4	Prof.P.K.Mahapatro	Retd. Dean, OUAT	attended online
5	Prof.R.N.Sahu	Principal Scientist, IARI, New Delhi	attended online
6	Dr.K.V.Ramana Rao	Scientist-G, Science & Engineering Research Board DST, New Delhi	attended online
7	Prof. M.Devender Reddy	Dean (Academics), MSSSoA, CUTM,Paralakhemundi Campus	attended online
	Prof. Satya Prasad Nanda	Dean (Admin.) MSSSoA, CUTM, Paralakhemundi Campus	attended online
)	Prof.K. Satya Krishna Prasad	Dean, School of Fisheries, CUTM, Paralakhemundi Campus	attended online

10	Prof. Sambid Swain	Head, School of Fisheries, CUTM, Paralakhemundi	attended online
11	Mr.D.Sarath Kumar	Campus 2 nd Year M.Sc.Ag	otton la la v
12	Ms. G. Nalini Naidu	1 st Year M.Sc.Ag	attended online
13	Mr.Bikash Kumar Agarwala	4 th Year B.Sc.Ag	attended online
15	Mr. Alok Behera	Alumni	attended online attended online
16	Mr. L.Sagar	Alumni	
17	Mr. Ashish Mishra	Alumni	attended online
18	Ms.G.Prameela	Alumni	attended online
19	M Suresh	Alumni	attended online attended online
20	HOD Agronomy	Dr. Sagar Maitra	attended online
21	HOD Plant Pathology	Dr. B Praveen	attended online
2	HOD Entomology	V Lipsa Dash	attended online
3	HOD Soil Science	Dr. Rahul Adhikary	attended online
4	HOD Extension	Dr. C. Padhy	attended online
5	HOD GBP	Dr. Pravin Kumar	attended online
	HOD Biotechnology	Dr Pushpalata G	attended online
	HOD Plant Physiology	Dr Raghu G	attended online
	HOD Horticulture	Dr. Anant Tamang	attended online

Dean Administration

J-Dewender In Dean Academics



School of Paramedics and Allied Health Sciences

Date: 11/07/2020

MINUTES OF BOARD OF STUDIES MEETING held on 11/07/2020

Venue: Hybrid mode (Board Room, CUTM, Bhubaneswar and online)

Time: 11.00 AM

The Board of Studies (BoS) meeting of School of Paramedics and Allied Health Sciences was held on 11/07/2020 at 11 AM in hybrid mode.

The following members were present:

Dr. Bhargavram (MD, Professor of Opthalmology)

Dr. Ajay Kumar Singh (MD, Professor of Ophthalmology)

Dr. Santosh Kumar Behera (Senior Scientist)

Dr. Debasish Sahoo (MD, Professor in Microbiology)

Dr. Debi Prasad Rath (MD, Professor in Pathology)

Dr. Ardhendu Praharaj (Ph. D. in Microbiology)

Dr. Harihar Praharaj (MD, Professor of Medicine)

Dr.Chandra Mouli (MD, Professor of Radiology)

Dr.Teja, Anesthesian

Prof. Sourav Karmakar (Asst. Prof. SoPAHS)

Ms. SNS Neelima (Asst. Prof. SoPAHS)

Mr. M.Vinay Dinakaran (Asst. Prof. SoPAHS)

Ms. N.Anuhya (Asst. Prof. SoPAHS)

Dr.M.L.N.Acharyulu (Associate Dean, SoPAHS)

Dr.CH.Nooka Raju (Associate Prof., SoPAHS)

Mr. Rajesh Sukkala (Asst. Prof. SoPAHS)

Dr. Ashish Kumar Sen (Adjunct Faculty, SoPAHS)

Dr. Monali P. Mishra (Assistant Prof., SoPAHS)

Ms. Sonali Dash (Assistant Prof., SoPAHS)

Ms. Susmita Chakrabarty (Lecturer, SoPAHS)



Prof. Sunil Kumar Jha (Dean, SoPAHS)

Dr. Soumya Jal (HoD, SoPAHS)

Dr. P.K. Mohanty, Dean (Acad) CUTM

All the members were welcomed to the online session by the Chairperson and were briefed regarding the purpose of the meeting. Thereafter, the Dean of SoPAHS presented on the achievements, improvements of the department in terms of academics and infrastructure.

Following are the programs offered by SoPAHS:

MSc Medical Laboratory Technology (MSc MLT) MSc Applied and Clinical Microbiology (MSc CMB) BSc Medical Laboratory Technology (BSc MLT) BSc Clinical Microbiology (BSc CMB) BSc Medical Radiation Technology (BSc MRT) BSc Optometry (BSc Optom)

Agenda of the meeting:

Agenda 1: The minutes of the last meeting of the BoS held on 22.06.2019 were confirmed.

Agenda 2: Discussion and approval on the content of syllabus for various courses of SoPAHS. Implementation of CBCS pattern.

At first, the Dean of the school presented the feedback received from several stakeholders, on the curriculum of its various departments. With respect to the feedback received from the stakeholders, the committee discussed and approved for incorporation/ modifications in the curriculum for the Academic session 2020-21.

- The committee approved to introduce the following programmes in SoPAHS: BSc Anaesthesia Technology; BSc Operation Theatre Technology; BSc Emergency Medicine Technology
- The curriculum was framed adopting the CBCS pattern.
- Based on the feedback from stakeholders, the curriculum was framed in a manner to incorporate Project/ Practical based learning. The Project and Practical components of relevant subjects were embedded along with their theory component. Much of practical exposure/ hands on training/ research and project exposure is emphasized.
- The curriculum developed is available on http://courseware.cutm.ac.in/ (links/ notes/ videos for relevant notes are also available). It was adapted in a way to ease flip class technique and enhance Virtual learning along with real time learning, which was highly appreciated by the board members.
- New courses added into the curriculum are provided in Annexure A.

Agenda 3: Inclusion of courses on life skills and value addition

For their overall development and wellbeing of the students, it was advised that students enroll in the various life skills and value-adding courses that are offered by the university. The Board members agreed and gave their approval to the same.

Details of the life skill and value added courses introduced are mentioned in Annexure B.



The Dean, SoPAHS extended sincere thanks to all the members of the Board.

The meeting ended with a vote of thanks to the Chair.

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Prof. Suni Kumar Jha DEAN School of Paramedics & Allied Health Sciences Centurion University of Technology & Management Bhubaneswar, Odisha-752050

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Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050

11/7/20

HÓD, SoPAHS Dr. Sounya Jal Ascociota Protessor & 1900 Bohool of Peremedics & Aulied Hooth Sciences Centurioa University of Technology & Ranagement Remechandropur, Bhubaneswar - 752050



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Annexure A ·

List o	of new courses added		Cuadit
SI. No	Course Title	Type (Skill/ Employability/ Entrepreneurship)	Credit
	MSc MLT		
1.	Human Anatomy and Physiology	Employability	3
2.	Analytical Techniques	Entrepreneurship	4
3.	Biological Chemistry	Employability	3
4.	Clinical Hematology	Entrepreneurship	4
5.	Clinical Pathology	Entrepreneurship	4
5. 6.	Cell and Molecular Biology	Employability	3
7.	Clinical Biochemistry	Employability	3
8.	Histology	Employability	4
9.	Medical Laboratory Technology	Entrepreneurship	5
10.	Blood Banking	Entrepreneurship	4
11.	Health Programme in India	Entrepreneurship	3
12.	Medical Microbiology	Employability	4
13.	Immunology & Parasitology	Employability	5
14.	Advanced Hematology	Entrepreneurship	4
15.	Research Methodology	Employability	3
16.	Mini Project	Employability	2
17.	Internship	Employability	12
18.	Project	Employability	12
19.	Environmental Studies	Employability	2
20.	Job Readiness	Employability	3
21.	Proficiency in English	Employability	2
	MSc CMB		
1.	Human Anatomy and Physiology	Employability	3
2.	Analytical Techniques	Entrepreneurship	4
3.	Biological Chemistry	Employability	3
4.	Clinical Hematology	Entrepreneurship	4
5.	Clinical Pathology	Entrepreneurship	4
6.	Cell and Molecular Biology	Employability	3
7.	Clinical Biochemistry	Employability	3
8.	Histology	Employability	4
9.	General Microbiology	Employability	4
10.		Employability	4
11.	Applied microbiology	Employability	3
12.	Medical Parasitology and Mycology	Employability	5
13.		Employability	5
14.		Employability	4
15		Employability	3



16.	Mini Project	Employability	2
17.	Internship	Employability	12
18.	Project .	Employability	12
19.	Environmental Studies	Employability	2
20.	Job Readiness	Employability	3
21.	Proficiency in English	Employability	2
	BSc MLT		
1.	Human Anatomy and Physiology	Employability	3
2.	Cell Biology	Employability	4
3.	Medical Instrumentation and Technique	Entrepreneurship	4
4.	Biochemistry	Employability	4
5.	Clinical Pathology	Entrepreneurship	4
6.	Immunology	Employability	5
7.	Molecular Biology	Entrepreneurship	4
8.	Haematology	Entrepreneurship	5
9.	Microbiology	Employability	5
10.	Medical Law and Ethics	Employability	3
11.	Histology	Employability	4
12.	Advanced Hematology	Entrépreneurship	4
13.	Research Methodology	Employability	3
14.	Analytical Biochemistry	Employability	5
15.	Applied Haematology	Entrepreneurship	5
16.	Immunopathology	Employability	4
17.	Parasitology	Employability	5
18.	Basic Computer and Information Science	Employability	2
19.	Blood Banking	Entrepreneurship	4
20.	Medical Laboratory Management	Entrepreneurship	5
21.	Introduction to Quality and Patient Safety	Employability	5
22.	Mycology & Virology	Employability	5
23.	Mini Project	Employability	2
24.	Internship	Employability	12
25.	Project	Employability	12
26.	Environmental Studies	Employability	2
27.	Job Readiness	Employability	3
28.	Proficiency in English	Employability	2
	BSc CMB		
1.	Human Anatomy and Physiology	Employability	3
2.	Cell Biology	Employability	4
3.	Medical Instrumentation and Technique	Entrepreneurship	4
4.	Biochemistry	Employability	4
5.	Clinical Pathology	Entrepreneurship	4
6.	Immunology	Employability	5
7.	Molecular Biology	Entrepreneurship	4



8.	Haematology	Entrepreneurship	5
9.	Microbiology	Employability	5
10.	Medical Law and Ethics	Employability	3
11.	Systemic Bacteriology	Employability	4
12.	Systemic Virology & Mycology	Employability	5
13.	Research Methodology	Employability	3
14.	Analytical Biochemistry	Employability	5
15.	Public Heath Microbiology	Employability	4
16.	Pharmaceutical Microbiology	Employability	4
17.	Industrial Microbiology	Employability	4
18.	Basic Computer and Information Science	Employability	2
19.	Epidemiology	Employability	3
20.	Diagnostic Bacteriology	Entrepreneurship	5
21.	Diagnostic Mycology	Entrepreneurship	4
22.	Diagnostic Virology	Entrepreneurship	4
23.	Diagnostic Parasitology	Entrepreneurship	4
24.	Mini Project	Employability	2
25.	Internship	Employability	12
26.	Project	Employability	12
27.	Environmental Studies	Employability	2
28.	Job Readiness	Employability	3
29.	Proficiency in English	Employability	2
	BSc MRT		
1.	General Anatomy	Employability	5
2.	General Physiology	Employability	5
3.	Basic Biochemistry	Employability	5
4.	Biology	Employability	5
5.	Cell Biology	Employability	5
6.	Mathematics	Employability	5
7.	Basic Radiation Physics	Employability	4
8.	Fundamental Medical Imaging	Entrepreneurship	6
9.	Principles of Radiation Therapy	Employability	4
10.	Basic Medical Instrumentation & Technique	Entrepreneurship	4
11.	Applied Radiation Physics & Radiation Protection	Employability	4
12.	Radiographic Technique - 1	Employability	5
13.	Basic Equipment in Radiotherapy	Employability	4
14.	Mammography and Ultrasound	Entrepreneurship	4
15.	Applied Equipment of Radio Diagnosis	Employability	4
16.	Radiotherapy and Brachy Therapy in Malignant & Non-malignant Disease		4
17.	Radiographic Technique - 2	Employability	5
18.		Employability	4
19.		Employability	5



1	Drug Diagnostic Radiology		
20.	Computerized Tomography (CT Scanning) Method & Procedure	Employability	4
21.	Basic of Magnetic Resonance	Employability	4
22.	Imaging Image Interpretation of X-Ray	Entrepreneurship	5
	Mammography, CT & MRI	Employability	3
23.	Medical Law and Ethics		4
24.	Orientation in Clinical Sciences Course contents	Employability	
25.	Basic Computer and Information Science	Employability	2
26.	Project	Employability	18
27.	Internship	Employability	18
28.	Environmental Studies	Employability	2
29.	Job Readiness	Employability	3
30.	Proficiency in English	Employability	2
50.	BSc Optometry		
1.	Biology	Employability	4
2.	Maths	Employability	4
2. 3.	Cell Biology	Employability	4
<u>3.</u> 4.	General Anatomy	Employability	5
5.	General Physiology	Employability	5
5. 6.	Basic Biochemistry	Employability	5
2010	GEOMETRIC OPTICS	Employability	5
7.	BASIC COMPUTER AND	Employability	2
8.	INFORMATION SCIENCE		
9.	OCULAR ANATOMY	Employability	4
10.	OCULAR PHYSIOLOGY	Employability	4
11.	INTRODUCTION TO OPTOMETRY	Employability	2
12.	PHYSICAL OPTICS	Entrepreneurship	4
13.	VISUAL OPTICS –I	Entrepreneurship	5
14.	OPTOMETRIC OPTICSI	Entrepreneurship	5
15.	OCULAR DISEASES –I	Entrepreneurship	4
16.	and a second a second a second a	Employability	4
17.	THE PROPERTY AND A DECIDE	Entrepreneurship	2
18.		Entrepreneurship	5
19.		Employability	5
20.		Employability	4
20.		Entrepreneurship	5
22.		Entrepreneurship	5
23.		Entrepreneurship	5
24.		Entrepreneurship	4
25.		Employability	4
26.		Entrepreneurship	5
27		Employability	4



UNIVERSI	18	
OPTOMETRY		
SYSTEMIC DISEASES & EYE	Employability	4
OCCUPATIONAL OPTOMETRY	Entrepreneurship	3
LAW & OPTOMETRY	Employability	3
PUBLIC HEALTH& COMMUNITY	Employability	3
OPTOMETRY		
OPTOMETRIC INSTRUMENTS	Entrepreneurship	4
PROJECT	Employability	18
INTERNSHIP	Employability	20
Environmental Studies	Employability	2
	Employability	3
	Employability	2
	OPTOMETRY SYSTEMIC DISEASES & EYE OCCUPATIONAL OPTOMETRY LAW & OPTOMETRY PUBLIC HEALTH& COMMUNITY OPTOMETRY OPTOMETRIC INSTRUMENTS PROJECT	SYSTEMIC DISEASES & EYEEmployabilityOCCUPATIONAL OPTOMETRYEntrepreneurshipLAW & OPTOMETRYEmployabilityPUBLIC HEALTH& COMMUNITYEmployabilityOPTOMETRYEmployabilityOPTOMETRYEntrepreneurshipPROJECTEmployabilityINTERNSHIPEmployabilityEnvironmental StudiesEmployabilityJob ReadinessEmployability



Annexure B

List of Skill courses (Basket) approved

SI.	Course Title	Credit	(T+P+P)
No	Refraction Technology (CUTM3057)	4	0+3+1
1. 2.	Emergency Medical Technology (CUTM3058)	4	0+3+1
3.	Medical Lab Technology (CUTM3059)	4	0+3+1
4.	Operation Theatre Technology (CUTM3060)	4	0+3+1
5.	Radiology Technology (CUTM3061)	4	0+3+1
<u>5.</u> 6.	Phlebotomy Technology (CUTM3062)	4	0+3+1
7.	First Aid Service (CUTM3063)	4	0+3+1
8.	General Duty Assistance Service (CUTM3064)	4	0+3+1
9.	X- ray Technology (CUTM3065)	4	0+3+1
1254 C 1254			

List of value-added courses approved

SI. Course Title Hrs. of		Hrs. of input
No		20 bro
1.	Gender, Human Rights and Ethics (CUVA4040)	30 hrs



School of Paramedics and Allied Health Sciences

Time: 11.00 AM

Date: 11.07.2020

Venue: Hybrid mode (Board Room, CUTM, Bhubaneswar and online)

Board of Studies Meeting

Attendance Sheet

Sl. No.	Name of the BOS Member (Internal Faculty and External Resource)	Designation	Signature
1	Dr. Santosh Kumar Behera	Regional Medical Research Center	Attended online
2	Dr. Debasish Sahoo	SOA University	Attended online
3	Dr. Debi Prasad Rath	CARE Hospital	Attended online
4	Dr. Ardhendu Praharaj	District Microbiology Lab, Nabarangpur	Attended online
5	Dr. Harihar Praharaj	Directorate of Medical Education and Training, Odisha	Attended online
6	Dr. Bhargavram	MD, Professor of Opthalmology, Sandhya Eye Hospital, Andhra Pradesh	Attended online
7	Dr. Ajay Kumar Singh	MD, Professor of Ophthalmology, DHC Khordha	Attended online
8	Dr.Chandra Mouli	Radiology Dept., GVP Institute of Health Care and Medical Technology,Marika valasa, Visakhapatnam,A.P	Attended online
9	Dr.M.Bhargava Ram	Opthamologist, Sandhya Eye Hospital, Maddilapale, Visakhapatnam	Attended online
10	Dr.Teja	Anesthesian	Attended online
11	Dr. Monali P. Mishra	Assistant Prof., SoPAHS (CUTM)	Attended online
12	Ms. Sonali Dash	Assistant Prof., SoPAHS (CUTM)	Attended online
13	Ms. Susmita Chakrabarty	Lecturer, SoPAHS (CUTM)	Attended online
14	Prof. Sourav Karmakar	Asst. Prof. & HoD, SoPAHS (CUTM)	Attended online
15	Ms. SNS Neelima	Asst. Prof. SoPAHS (CUTM)	Attended online
16	Dr.CH.Nooka Raju	Associate Prof., SoPAHS (CUTM)	Attended online
17	Mr. M.Vinay Dinakaran	Asst. Prof. SoPAHS (CUTM)	Attended online



	UNIVERSITY	
Ms. N.Anuhya	Asst. Prof. SoPAHS (CUTM)	Attended online
Dr.M.L.N.Acharyulu	Associate Dean, SoPAHS (CUTM)	Attended online
		Mis. N.Anunya Assertion Solution (Clutter)

Dear, SoPAHS

Prof. Sunil Humar Jha DEAN School of Paramedics & Allied Health Sciences Centurion University of Technology & Management Bhubaneswar, Odisha-752050

Dean, Academics

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School of Asternatics & Ailled Health Sciences Centurion University of Technology & ManagementCenturion University & ManagementCenturion University & ManagementCenturion University & ManagementCenturion University



School of Paramedics and Allied Health Sciences

Date: 11/07/2020

MINUTES OF BOARD OF STUDIES MEETING held on 11/07/2020

Venue: Hybrid mode (Board Room, CUTM, Bhubaneswar and online)

Time: 11.00 AM

The Board of Studies (BoS) meeting of School of Paramedics and Allied Health Sciences was held on 11/07/2020 at 11 AM in hybrid mode.

The following members were present:

- Dr. Bhargavram (MD, Professor of Opthalmology)
- Dr. Ajay Kumar Singh (MD, Professor of Ophthalmology)
- Dr. Santosh Kumar Behera (Senior Scientist)

Dr. Debasish Sahoo (MD, Professor in Microbiology)

Dr. Debi Prasad Rath (MD, Professor in Pathology)

Dr. Ardhendu Praharaj (Ph. D. in Microbiology)

Dr. Harihar Praharaj (MD, Professor of Medicine)

Dr.Chandra Mouli (MD, Professor of Radiology)

Dr.Teja, Anesthesian

Prof. Sourav Karmakar (Asst. Prof. SoPAHS)

Ms. SNS Neelima (Asst. Prof. SoPAHS)

Mr. M.Vinay Dinakaran (Asst. Prof. SoPAHS)

Ms. N.Anuhya (Asst. Prof. SoPAHS)

Dr.M.L.N.Acharyulu (Associate Dean, SoPAHS)

Dr.CH.Nooka Raju (Associate Prof., SoPAHS)

Mr. Rajesh Sukkala (Asst. Prof. SoPAHS)

Dr. Ashish Kumar Sen (Adjunct Faculty, SoPAHS)

Dr. Monali P. Mishra (Assistant Prof., SoPAHS)

Ms. Sonali Dash (Assistant Prof., SoPAHS)

Ms. Susmita Chakrabarty (Lecturer, SoPAHS)



Prof. Sunil Kumar Jha (Dean, SoPAHS)

Dr. Soumya Jal (HoD, SoPAHS)

Dr. P.K. Mohanty, Dean (Acad) CUTM

All the members were welcomed to the online session by the Chairperson and were briefed regarding the purpose of the meeting. Thereafter, the Dean of SoPAHS presented on the achievements, improvements of the department in terms of academics and infrastructure.

Following are the programs offered by SoPAHS:

MSc Medical Laboratory Technology (MSc MLT) MSc Applied and Clinical Microbiology (MSc CMB) BSc Medical Laboratory Technology (BSc MLT) BSc Clinical Microbiology (BSc CMB) BSc Medical Radiation Technology (BSc MRT) BSc Optometry (BSc Optom)

Agenda of the meeting:

Agenda 1: The minutes of the last meeting of the BoS held on 22.06.2019 were confirmed.

Agenda 2: Discussion and approval on the content of syllabus for various courses of SoPAHS. Implementation of CBCS pattern.

At first, the Dean of the school presented the feedback received from several stakeholders, on the curriculum of its various departments. With respect to the feedback received from the stakeholders, the committee discussed and approved for incorporation/ modifications in the curriculum for the Academic session 2020-21.

- The committee approved to introduce the following programmes in SoPAHS: BSc Anaesthesia Technology; BSc Operation Theatre Technology; BSc Emergency Medicine Technology
- The curriculum was framed adopting the CBCS pattern.
- Based on the feedback from stakeholders, the curriculum was framed in a manner to incorporate Project/ Practical based learning. The Project and Practical components of relevant subjects were embedded along with their theory component. Much of practical exposure/ hands on training/ research and project exposure is emphasized.
- The curriculum developed is available on http://courseware.cutm.ac.in/ (links/ notes/ videos for relevant notes are also available). It was adapted in a way to ease flip class technique and enhance Virtual learning along with real time learning, which was highly appreciated by the board members.
- New courses added into the curriculum are provided in Annexure A.

Agenda 3: Inclusion of courses on life skills and value addition

For their overall development and wellbeing of the students, it was advised that students enroll in the various life skills and value-adding courses that are offered by the university. The Board members agreed and gave their approval to the same.

Details of the life skill and value added courses introduced are mentioned in Annexure B.



The Dean, SoPAHS extended sincere thanks to all the members of the Board.

The meeting ended with a vote of thanks to the Chair.

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Prof. Suni Kumar Jha DEAN School of Paramedics & Allied Health Sciences Centurion University of Technology & Management Bhubaneswar, Odisha-752050

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Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050

11/7/20

HÓD, SoPAHS Dr. Sounya Jal Ascociota Protessor & 1900 Bohool of Peremedics & Aulied Hooth Sciences Centurioa University of Technology & Ranagement Remechandropur, Bhubaneswar - 752050



Annexure A ·

	of new courses added	T	Credit
SI. No	Course Title	Type (Skill/ Employability/ Entrepreneurship)	Crean
	MSc MLT		
1.	Human Anatomy and Physiology	Employability	3
2.	Analytical Techniques	Entrepreneurship	4
3.	Biological Chemistry	Employability	3
4.	Clinical Hematology	Entrepreneurship	4
		Entrepreneurship	4
5.	Clinical Pathology Cell and Molecular Biology	Employability	3
6.	Clinical Biochemistry	Employability	3
7.		Employability	4
8.	Histology Medical Laboratory Technology	Entrepreneurship	5
9. 10.	Blood Banking	Entrepreneurship	4
10.	Health Programme in India	Entrepreneurship	3
12.	Medical Microbiology	Employability	4
12.	Immunology & Parasitology	Employability	5
15.	Advanced Hematology	Entrepreneurship	4
14.	Research Methodology	Employability	3
16.	Mini Project	Employability	2
17.	Internship	Employability	12
18.	Project	Employability	12
19.	Environmental Studies	Employability	2
20.	Job Readiness	Employability	3
21.	Proficiency in English	Employability	2
44.	MSc CMB		
1.	Human Anatomy and Physiology	Employability	3
2.	Analytical Techniques	Entrepreneurship	4
3.	Biological Chemistry	Employability	3
4.	Clinical Hematology	Entrepreneurship	4
5.	Clinical Pathology	Entrepreneurship	4
6.	Cell and Molecular Biology	Employability	3
7.	Clinical Biochemistry	Employability	3
8.	Histology	Employability	4
9.	General Microbiology	Employability	4
10.		Employability	4
11.		Employability	3
12.		Employability	5
13.		Employability	5
14.		Employability	4
14.		Employability	3

List of new courses added



16.	Mini Project	Employability	2
17.	Internship	Employability	12
18.	Project	Employability	12
19.	Environmental Studies	Employability	2
20.	Job Readiness	Employability	3
21.	Proficiency in English	Employability	2
	BSc MLT		
1.	Human Anatomy and Physiology	Employability	3
2.	Cell Biology	Employability	4
3.	Medical Instrumentation and Technique	Entrepreneurship	4
4.	Biochemistry	Employability	4
5.	Clinical Pathology	Entrepreneurship	4
6.	Immunology	Employability	5
7.	Molecular Biology	Entrepreneurship	4
8.	Haematology	Entrepreneurship	5
9.	Microbiology	Employability	5
10.	Medical Law and Ethics	Employability	3
11.	Histology	Employability	4
12.	Advanced Hematology	Entrépreneurship	4
13.	Research Methodology	Employability	3
14.	Analytical Biochemistry	Employability	5
15.	Applied Haematology	Entrepreneurship	5
16.	Immunopathology	Employability	4
17.	Parasitology	Employability	5
18.	Basic Computer and Information Science	Employability	2
19.	Blood Banking	Entrepreneurship	4
20.	Medical Laboratory Management	Entrepreneurship	5
21.	Introduction to Quality and Patient Safety	Employability	5
22.	Mycology & Virology	Employability	5
23.	Mini Project	Employability	2
24.	Internship	Employability	12
25.	Project	Employability	12
26.	Environmental Studies	Employability	2
27.	Job Readiness	Employability	3
28.	Proficiency in English	Employability	2
	BSc CMB		
1.	Human Anatomy and Physiology	Employability	3
2.	Cell Biology	Employability	4
3.	Medical Instrumentation and Technique	Entrepreneurship	4
4.	Biochemistry	Employability	4
5.	Clinical Pathology	Entrepreneurship	4
6.	Immunology	Employability	5
7.	Molecular Biology	Entrepreneurship	4



8.	Haematology	Entrepreneurship	5
9.	Microbiology	Employability	5
10.	Medical Law and Ethics	Employability	3
11.	Systemic Bacteriology	Employability	4
12.	Systemic Virology & Mycology	Employability	5
13.	Research Methodology	Employability	3
14.	Analytical Biochemistry	Employability	5
15.	Public Heath Microbiology	Employability	4
16.	Pharmaceutical Microbiology	Employability	4
17.	Industrial Microbiology	Employability	4
18.	Basic Computer and Information Science	Employability	2
19.	Epidemiology	Employability	3
20.	Diagnostic Bacteriology	Entrepreneurship	5
21.	Diagnostic Mycology	Entrepreneurship	4
22.	Diagnostic Virology	Entrepreneurship	4
23.	Diagnostic Parasitology	Entrepreneurship	4
24.	Mini Project	Employability	2
25.	Internship	Employability	12
26.	Project	Employability	12
27.	Environmental Studies	Employability	2
28.	Job Readiness	Employability	3
29.	Proficiency in English	Employability	2
	BSc MRT		
1.	General Anatomy	Employability	5
2.	General Physiology	Employability	5
3.	Basic Biochemistry	Employability	5
4.	Biology	Employability	5
5.	Cell Biology	Employability	5
6.	Mathematics	Employability	5
7.	Basic Radiation Physics	Employability	4
8.	Fundamental Medical Imaging	Entrepreneurship	6
9.	Principles of Radiation Therapy	Employability	4
10.	Basic Medical Instrumentation & Technique	Entrepreneurship	4
11.	Applied Radiation Physics & Radiation Protection	Employability	4
12.	Radiographic Technique - 1	Employability	5
13.	Basic Equipment in Radiotherapy	Employability	4
14.	Mammography and Ultrasound	Entrepreneurship	4
15.	Applied Equipment of Radio Diagnosis	Employability	4
16.	Radiotherapy and Brachy Therapy in Malignant & Non-malignant Disease		4
17.	Radiographic Technique - 2	Employability	5
18.		Employability	4
19.		Employability	5



1	Drug Diagnostic Radiology		
20.	Computerized Tomography (CT Scanning) Method & Procedure	Employability	4
21.	Basic of Magnetic Resonance	Employability	4
22.	Imaging Image Interpretation of X-Ray	Entrepreneurship	5
	Mammography, CT & MRI	Employability	3
23.	Medical Law and Ethics		4
24.	Orientation in Clinical Sciences Course contents	Employability	
25.	Basic Computer and Information Science	Employability	2
26.	Project	Employability	18
27.	Internship	Employability	18
28.	Environmental Studies	Employability	2
29.	Job Readiness	Employability	3
30.	Proficiency in English	Employability	2
50.	BSc Optometry		
1.	Biology	Employability	4
2.	Maths	Employability	4
2. 3.	Cell Biology	Employability	4
<u>3.</u> 4.	General Anatomy	Employability	5
5.	General Physiology	Employability	5
5. 6.	Basic Biochemistry	Employability	5
2010	GEOMETRIC OPTICS	Employability	5
7.	BASIC COMPUTER AND	Employability	2
8.	INFORMATION SCIENCE		
9.	OCULAR ANATOMY	Employability	4
10.	OCULAR PHYSIOLOGY	Employability	4
11.	INTRODUCTION TO OPTOMETRY	Employability	2
12.	PHYSICAL OPTICS	Entrepreneurship	4
13.	VISUAL OPTICS –I	Entrepreneurship	5
14.	OPTOMETRIC OPTICSI	Entrepreneurship	5
15.	OCULAR DISEASES –I	Entrepreneurship	4
16.	and a second a second a second a	Employability	4
17.	THE PROPERTY AND A DECIDE	Entrepreneurship	2
18.		Entrepreneurship	5
19.		Employability	5
20.		Employability	4
20.		Entrepreneurship	5
22.		Entrepreneurship	5
23.		Entrepreneurship	5
24.		Entrepreneurship	4
25.		Employability	4
26.		Entrepreneurship	5
27		Employability	4



UNIVERSI	18	
OPTOMETRY		
SYSTEMIC DISEASES & EYE	Employability	4
OCCUPATIONAL OPTOMETRY	Entrepreneurship	3
LAW & OPTOMETRY	Employability	3
PUBLIC HEALTH& COMMUNITY	Employability	3
OPTOMETRY		
OPTOMETRIC INSTRUMENTS	Entrepreneurship	4
PROJECT	Employability	18
INTERNSHIP	Employability	20
Environmental Studies	Employability	2
	Employability	3
	Employability	2
	OPTOMETRY SYSTEMIC DISEASES & EYE OCCUPATIONAL OPTOMETRY LAW & OPTOMETRY PUBLIC HEALTH& COMMUNITY OPTOMETRY OPTOMETRIC INSTRUMENTS PROJECT	SYSTEMIC DISEASES & EYEEmployabilityOCCUPATIONAL OPTOMETRYEntrepreneurshipLAW & OPTOMETRYEmployabilityPUBLIC HEALTH& COMMUNITYEmployabilityOPTOMETRYEmployabilityOPTOMETRYEntrepreneurshipPROJECTEmployabilityINTERNSHIPEmployabilityEnvironmental StudiesEmployabilityJob ReadinessEmployability



Annexure B

List of Skill courses (Basket) approved

SI.	Course Title	Credit	(T+P+P)
No	Refraction Technology (CUTM3057)	4	0+3+1
1. 2.	Emergency Medical Technology (CUTM3058)	4	0+3+1
3.	Medical Lab Technology (CUTM3059)	4	0+3+1
4.	Operation Theatre Technology (CUTM3060)	4	0+3+1
5.	Radiology Technology (CUTM3061)	4	0+3+1
<u>5.</u> 6.	Phlebotomy Technology (CUTM3062)	4	0+3+1
7.	First Aid Service (CUTM3063)	4	0+3+1
8.	General Duty Assistance Service (CUTM3064)	4	0+3+1
9.	X- ray Technology (CUTM3065)	4	0+3+1
1254 C 1254			

List of value-added courses approved

SI. Course Title		Hrs. of input
No		20 bro
1.	Gender, Human Rights and Ethics (CUVA4040)	30 hrs



School of Paramedics and Allied Health Sciences

Time: 11.00 AM

Date: 11.07.2020

Venue: Hybrid mode (Board Room, CUTM, Bhubaneswar and online)

Board of Studies Meeting

Attendance Sheet

Sl. No.	Name of the BOS Member (Internal Faculty and External Resource)	Designation	Signature
1	Dr. Santosh Kumar Behera	Regional Medical Research Center	Attended online
2	Dr. Debasish Sahoo	SOA University	Attended online
3	Dr. Debi Prasad Rath	CARE Hospital	Attended online
4	Dr. Ardhendu Praharaj	District Microbiology Lab, Nabarangpur	Attended online
5	Dr. Harihar Praharaj	Directorate of Medical Education and Training, Odisha	Attended online
6	Dr. Bhargavram	MD, Professor of Opthalmology, Sandhya Eye Hospital, Andhra Pradesh	Attended online
7	Dr. Ajay Kumar Singh	MD, Professor of Ophthalmology, DHC Khordha	Attended online
8	Dr.Chandra Mouli	Radiology Dept., GVP Institute of Health Care and Medical Technology,Marika valasa, Visakhapatnam,A.P	Attended online
9	Dr.M.Bhargava Ram	Opthamologist, Sandhya Eye Hospital, Maddilapale, Visakhapatnam	Attended online
10	Dr.Teja	Anesthesian	Attended online
11	Dr. Monali P. Mishra	Assistant Prof., SoPAHS (CUTM)	Attended online
12	Ms. Sonali Dash	Assistant Prof., SoPAHS (CUTM)	Attended online
13	Ms. Susmita Chakrabarty	Lecturer, SoPAHS (CUTM)	Attended online
14	Prof. Sourav Karmakar	Asst. Prof. & HoD, SoPAHS (CUTM)	Attended online
15	Ms. SNS Neelima	Asst. Prof. SoPAHS (CUTM)	Attended online
16	Dr.CH.Nooka Raju	Associate Prof., SoPAHS (CUTM)	Attended online
17	Mr. M.Vinay Dinakaran	Asst. Prof. SoPAHS (CUTM)	Attended online



	UNIVERSITY	
Ms. N.Anuhya	Asst. Prof. SoPAHS (CUTM)	Attended online
Dr.M.L.N.Acharyulu	Associate Dean, SoPAHS (CUTM)	Attended online
		Mis. N.Anunya Assertion Solution (Clutter)

Dear, SoPAHS

Prof. Sunil Humar Jha DEAN School of Paramedics & Allied Health Sciences Centurion University of Technology & Management Bhubaneswar, Odisha-752050

Dean, Academics

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School of Paramedics and Allied Health Sciences

Date: 11/07/2020

MINUTES OF BOARD OF STUDIES MEETING held on 11/07/2020

Venue: Hybrid mode (Board Room, CUTM, Bhubaneswar and online)

Time: 11.00 AM

The Board of Studies (BoS) meeting of School of Paramedics and Allied Health Sciences was held on 11/07/2020 at 11 AM in hybrid mode.

The following members were present:

- Dr. Bhargavram (MD, Professor of Opthalmology)
- Dr. Ajay Kumar Singh (MD, Professor of Ophthalmology)
- Dr. Santosh Kumar Behera (Senior Scientist)

Dr. Debasish Sahoo (MD, Professor in Microbiology)

Dr. Debi Prasad Rath (MD, Professor in Pathology)

Dr. Ardhendu Praharaj (Ph. D. in Microbiology)

Dr. Harihar Praharaj (MD, Professor of Medicine)

Dr.Chandra Mouli (MD, Professor of Radiology)

Dr.Teja, Anesthesian

Prof. Sourav Karmakar (Asst. Prof. SoPAHS)

Ms. SNS Neelima (Asst. Prof. SoPAHS)

Mr. M.Vinay Dinakaran (Asst. Prof. SoPAHS)

Ms. N.Anuhya (Asst. Prof. SoPAHS)

Dr.M.L.N.Acharyulu (Associate Dean, SoPAHS)

Dr.CH.Nooka Raju (Associate Prof., SoPAHS)

Mr. Rajesh Sukkala (Asst. Prof. SoPAHS)

Dr. Ashish Kumar Sen (Adjunct Faculty, SoPAHS)

Dr. Monali P. Mishra (Assistant Prof., SoPAHS)

Ms. Sonali Dash (Assistant Prof., SoPAHS)

Ms. Susmita Chakrabarty (Lecturer, SoPAHS)



Prof. Sunil Kumar Jha (Dean, SoPAHS)

Dr. Soumya Jal (HoD, SoPAHS)

Dr. P.K. Mohanty, Dean (Acad) CUTM

All the members were welcomed to the online session by the Chairperson and were briefed regarding the purpose of the meeting. Thereafter, the Dean of SoPAHS presented on the achievements, improvements of the department in terms of academics and infrastructure.

Following are the programs offered by SoPAHS:

MSc Medical Laboratory Technology (MSc MLT) MSc Applied and Clinical Microbiology (MSc CMB) BSc Medical Laboratory Technology (BSc MLT) BSc Clinical Microbiology (BSc CMB) BSc Medical Radiation Technology (BSc MRT) BSc Optometry (BSc Optom)

Agenda of the meeting:

Agenda 1: The minutes of the last meeting of the BoS held on 22.06.2019 were confirmed.

Agenda 2: Discussion and approval on the content of syllabus for various courses of SoPAHS. Implementation of CBCS pattern.

At first, the Dean of the school presented the feedback received from several stakeholders, on the curriculum of its various departments. With respect to the feedback received from the stakeholders, the committee discussed and approved for incorporation/ modifications in the curriculum for the Academic session 2020-21.

- The committee approved to introduce the following programmes in SoPAHS: BSc Anaesthesia Technology; BSc Operation Theatre Technology; BSc Emergency Medicine Technology
- The curriculum was framed adopting the CBCS pattern.
- Based on the feedback from stakeholders, the curriculum was framed in a manner to incorporate Project/ Practical based learning. The Project and Practical components of relevant subjects were embedded along with their theory component. Much of practical exposure/ hands on training/ research and project exposure is emphasized.
- The curriculum developed is available on http://courseware.cutm.ac.in/ (links/ notes/ videos for relevant notes are also available). It was adapted in a way to ease flip class technique and enhance Virtual learning along with real time learning, which was highly appreciated by the board members.
- New courses added into the curriculum are provided in Annexure A.

Agenda 3: Inclusion of courses on life skills and value addition

For their overall development and wellbeing of the students, it was advised that students enroll in the various life skills and value-adding courses that are offered by the university. The Board members agreed and gave their approval to the same.

Details of the life skill and value added courses introduced are mentioned in Annexure B.



The Dean, SoPAHS extended sincere thanks to all the members of the Board.

The meeting ended with a vote of thanks to the Chair.

lean.

Prof. Suni Kumar Jha DEAN School of Paramedics & Allied Health Sciences Centurion University of Technology & Management Bhubaneswar, Odisha-752050

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Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050

11/7/20

HÓD, SoPAHS Dr. Sounya Jal Ascociota Protessor & 1900 Bohool of Peremedics & Aulied Hooth Sciences Centurioa University of Technology & Ranagement Remechandropur, Bhubaneswar - 752050



Annexure A ·

	f new courses added	Type (Skill/	Credit
SI. No	Course Title	Employability/ Entrepreneurship)	crear
	MSc MLT		
1.	Human Anatomy and Physiology	Employability	3
2.	Analytical Techniques	Entrepreneurship	4
3.	Biological Chemistry	Employability	3
4.	Clinical Hematology	Entrepreneurship	4
5.	Clinical Pathology	Entrepreneurship	4
5. 6.	Cell and Molecular Biology	Employability	3
7.	Clinical Biochemistry	Employability	3
8.	Histology	Employability	4
9.	Medical Laboratory Technology	Entrepreneurship	5
10.	Blood Banking	Entrepreneurship	4
11.	Health Programme in India	Entrepreneurship	3
12.	Medical Microbiology	Employability	4
13.	Immunology & Parasitology	Employability	5
14.	Advanced Hematology	Entrepreneurship	4
15.	Research Methodology	Employability	3
16.	Mini Project	Employability	2
17.	Internship	Employability	12
18.	Project	Employability	12
19.	Environmental Studies	Employability	2
20.	Job Readiness	Employability	3
21.	Proficiency in English	Employability	2
44.	MSc CMB		
1.	Human Anatomy and Physiology	Employability	3
2.	Analytical Techniques	Entrepreneurship	4
3.	Biological Chemistry	Employability	3
4.	Clinical Hematology	Entrepreneurship	4
5.	Clinical Pathology	Entrepreneurship	4
6.	Cell and Molecular Biology	Employability	3
7.	Clinical Biochemistry	Employability	3
8.	Histology	Employability	4
9.	General Microbiology	Employability	4
10.	Systematic Bacteriology	Employability	4
11.	Applied microbiology	Employability	3
12.	Medical Parasitology and	Employability	5
	Mycology		
13.	Immunology & Virology	Employability	5
14.	Clinical Bacteriology	Employability	4
15.	Research Methodology	Employability	3



16.	Mini Project	Employability	2
17.	Internship	Employability	12
18.	Project ,	Employability	12
19.	Environmental Studies	Employability	2
20.	Job Readiness	Employability	3
21.	Proficiency in English	Employability	2
	BSc MLT		
1.	Human Anatomy and Physiology	Employability	3
2.	Cell Biology	Employability	4
3.	Medical Instrumentation and Technique	Entrepreneurship	4
4.	Biochemistry	Employability	4
5.	Clinical Pathology	Entrepreneurship	4
6.	Immunology	Employability	5
7.	Molecular Biology	Entrepreneurship	4
8.	Haematology	Entrepreneurship	5
9.	Microbiology	Employability	5
10.	Medical Law and Ethics	Employability	3
11.	Histology	Employability	4
12.	Advanced Hematology	Entrépreneurship	4
13.	Research Methodology	Employability	3
14.	Analytical Biochemistry	Employability	5
15.	Applied Haematology	Entrepreneurship	5
16.	Immunopathology	Employability	4
17.	Parasitology	Employability	5
18.	Basic Computer and Information Science	Employability	2
19.	Blood Banking	Entrepreneurship	4
20.	Medical Laboratory Management	Entrepreneurship	5
21.	Introduction to Quality and Patient Safety	Employability	5
22.	Mycology & Virology	Employability	5
23.	Mini Project	Employability	2
24.	Internship	Employability	12
25.	Project	Employability	12
26.	Environmental Studies	Employability	2
27.	Job Readiness	Employability	3
28.	Proficiency in English	Employability	2
	BSc CMB		
1.	Human Anatomy and Physiology	Employability	3
2.	Cell Biology	Employability	4
3.	Medical Instrumentation and Technique	Entrepreneurship	4
4.	Biochemistry	Employability	4
5.	Clinical Pathology	Entrepreneurship	4
6.	Immunology	Employability	5
7.	Molecular Biology	Entrepreneurship	4



8.	Haematology	Entrepreneurship	5
9.	Microbiology	Employability	5
10.	Medical Law and Ethics	Employability	3
11.	Systemic Bacteriology	Employability	4
12.	Systemic Virology & Mycology	Employability	5
13.	Research Methodology	Employability	3
14.	Analytical Biochemistry	Employability	5
15.	Public Heath Microbiology	Employability	4
16.	Pharmaceutical Microbiology	Employability	4
17.	Industrial Microbiology	Employability	4
18.	Basic Computer and Information Science	Employability	2
19.	Epidemiology	Employability	3
20.	Diagnostic Bacteriology	Entrepreneurship	5
21.	Diagnostic Mycology	Entrepreneurship	4
22.	Diagnostic Virology	Entrepreneurship	4
23.	Diagnostic Parasitology	Entrepreneurship	4
24.	Mini Project	Employability	2
25.	Internship	Employability	12
26.	Project	Employability	12
27.	Environmental Studies	Employability	2
28.	Job Readiness	Employability	3
29.	Proficiency in English	Employability	2
	BSc MRT		
1.	General Anatomy	Employability	5
2.	General Physiology	Employability	5
3.	Basic Biochemistry	Employability	5
4.	Biology	Employability	5
5.	Cell Biology	Employability	5
6.	Mathematics	Employability	5
7.	Basic Radiation Physics	Employability	4
8.	Fundamental Medical Imaging	Entrepreneurship	6
9.	Principles of Radiation Therapy	Employability	4
10.	Basic Medical Instrumentation & Technique	Entrepreneurship	4
11.	Applied Radiation Physics & Radiation Protection	Employability	4
12.	Radiographic Technique - 1	Employability	5
13.	Basic Equipment in Radiotherapy	Employability	4
14.	Mammography and Ultrasound	Entrepreneurship	4
15.	Applied Equipment of Radio Diagnosis	Employability	4
16.	Radiotherapy and Brachy Therapy in Malignant & Non-malignant Disease		4
17.	Radiographic Technique - 2	Employability	5
18.		Employability	4
19.		Employability	5



1	Drug Diagnostic Radiology		
20.	Computerized Tomography (CT Scanning) Method & Procedure	Employability	4
21.	Basic of Magnetic Resonance	Employability	4
22.	Imaging Image Interpretation of X-Ray	Entrepreneurship	5
	Mammography, CT & MRI	Employability	3
23.	Medical Law and Ethics		4
24.	Orientation in Clinical Sciences Course contents	Employability	
25.	Basic Computer and Information Science	Employability	2
26.	Project	Employability	18
27.	Internship	Employability	18
28.	Environmental Studies	Employability	2
29.	Job Readiness	Employability	3
30.	Proficiency in English	Employability	2
50.	BSc Optometry		
1.	Biology	Employability	4
2.	Maths	Employability	4
2. 3.	Cell Biology	Employability	4
<u>3.</u> 4.	General Anatomy	Employability	5
5.	General Physiology	Employability	5
5. 6.	Basic Biochemistry	Employability	5
2010	GEOMETRIC OPTICS	Employability	5
7.	BASIC COMPUTER AND	Employability	2
8.	INFORMATION SCIENCE		
9.	OCULAR ANATOMY	Employability	4
10.	OCULAR PHYSIOLOGY	Employability	4
11.	INTRODUCTION TO OPTOMETRY	Employability	2
12.	PHYSICAL OPTICS	Entrepreneurship	4
13.	VISUAL OPTICS –I	Entrepreneurship	5
14.	OPTOMETRIC OPTICSI	Entrepreneurship	5
15.	OCULAR DISEASES –I	Entrepreneurship	4
16.	and a second a second a second a	Employability	4
17.	THE REPORT OF THE PROPERTY OF	Entrepreneurship	2
18.		Entrepreneurship	5
19.		Employability	5
20.		Employability	4
20.		Entrepreneurship	5
22.		Entrepreneurship	5
23.		Entrepreneurship	5
24.		Entrepreneurship	4
25.		Employability	4
26.		Entrepreneurship	5
27		Employability	4



UNIVERSI	18	
OPTOMETRY		
SYSTEMIC DISEASES & EYE	Employability	4
OCCUPATIONAL OPTOMETRY	Entrepreneurship	3
LAW & OPTOMETRY	Employability	3
PUBLIC HEALTH& COMMUNITY	Employability	3
OPTOMETRY		
OPTOMETRIC INSTRUMENTS	Entrepreneurship	4
PROJECT	Employability	18
INTERNSHIP	Employability	20
Environmental Studies	Employability	2
	Employability	3
	Employability	2
	OPTOMETRY SYSTEMIC DISEASES & EYE OCCUPATIONAL OPTOMETRY LAW & OPTOMETRY PUBLIC HEALTH& COMMUNITY OPTOMETRY OPTOMETRIC INSTRUMENTS PROJECT	SYSTEMIC DISEASES & EYEEmployabilityOCCUPATIONAL OPTOMETRYEntrepreneurshipLAW & OPTOMETRYEmployabilityPUBLIC HEALTH& COMMUNITYEmployabilityOPTOMETRYEmployabilityOPTOMETRYEntrepreneurshipPROJECTEmployabilityINTERNSHIPEmployabilityEnvironmental StudiesEmployabilityJob ReadinessEmployability



Annexure B

List of Skill courses (Basket) approved

SI.	Course Title	Credit	(T+P+P)
No	Refraction Technology (CUTM3057)	4	0+3+1
1. 2.	Emergency Medical Technology (CUTM3058)	4	0+3+1
3.	Medical Lab Technology (CUTM3059)	4	0+3+1
4.	Operation Theatre Technology (CUTM3060)	4	0+3+1
5.	Radiology Technology (CUTM3061)	4	0+3+1
<u>5.</u> 6.	Phlebotomy Technology (CUTM3062)	4	0+3+1
7.	First Aid Service (CUTM3063)	4	0+3+1
8.	General Duty Assistance Service (CUTM3064)	4	0+3+1
9.	X- ray Technology (CUTM3065)	4	0+3+1
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List of value-added courses approved

SI.	Course Title	Hrs. of input
No		20 brc
1.	Gender, Human Rights and Ethics (CUVA4040)	30 hrs



School of Paramedics and Allied Health Sciences

Time: 11.00 AM

Date: 11.07.2020

Venue: Hybrid mode (Board Room, CUTM, Bhubaneswar and online)

Board of Studies Meeting

Attendance Sheet

Sl. No.	Name of the BOS Member (Internal Faculty and External Resource)	Designation	Signature
1	Dr. Santosh Kumar Behera	Regional Medical Research Center	Attended online
2	Dr. Debasish Sahoo	SOA University	Attended online
3	Dr. Debi Prasad Rath	CARE Hospital	Attended online
4	Dr. Ardhendu Praharaj	District Microbiology Lab, Nabarangpur	Attended online
5	Dr. Harihar Praharaj	Directorate of Medical Education and Training, Odisha	Attended online
6	Dr. Bhargavram	MD, Professor of Opthalmology, Sandhya Eye Hospital, Andhra Pradesh	Attended online
7	Dr. Ajay Kumar Singh	MD, Professor of Ophthalmology, DHC Khordha	Attended online
8	Dr.Chandra Mouli	Radiology Dept., GVP Institute of Health Care and Medical Technology,Marika valasa, Visakhapatnam,A.P	Attended online
9	Dr.M.Bhargava Ram	Opthamologist, Sandhya Eye Hospital, Maddilapale, Visakhapatnam	Attended online
10	Dr.Teja	Anesthesian	Attended online
11	Dr. Monali P. Mishra	Assistant Prof., SoPAHS (CUTM)	Attended online
12	Ms. Sonali Dash	Assistant Prof., SoPAHS (CUTM)	Attended online
13	Ms. Susmita Chakrabarty	Lecturer, SoPAHS (CUTM)	Attended online
14	Prof. Sourav Karmakar	Asst. Prof. & HoD, SoPAHS (CUTM)	Attended online
15	Ms. SNS Neelima	Asst. Prof. SoPAHS (CUTM)	Attended online
16	Dr.CH.Nooka Raju	Associate Prof., SoPAHS (CUTM)	Attended online
17	Mr. M.Vinay Dinakaran	Asst. Prof. SoPAHS (CUTM)	Attended online



	UNIVERSITY	
Ms. N.Anuhya	Asst. Prof. SoPAHS (CUTM)	Attended online
Dr.M.L.N.Acharyulu	Associate Dean, SoPAHS (CUTM)	Attended online
		Mis. N.Anunya Assertion Softman (Section)

Dear, SoPAHS

Prof. Sunil Humar Jha DEAN School of Paramedics & Allied Health Sciences Centurion University of Technology & Management Bhubaneswar, Odisha-752050

Dean, Academics

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School of Asternatics & Ailled Health Sciences Centurion University of Technology & ManagementCenturion University & ManagementCenturion University & ManagementCenturion University & ManagementCenturion University



School of Paramedics and Allied Health Sciences

Date: 11/07/2020

MINUTES OF BOARD OF STUDIES MEETING held on 11/07/2020

Venue: Hybrid mode (Board Room, CUTM, Bhubaneswar and online)

Time: 11.00 AM

The Board of Studies (BoS) meeting of School of Paramedics and Allied Health Sciences was held on 11/07/2020 at 11 AM in hybrid mode.

The following members were present:

Dr. Bhargavram (MD, Professor of Opthalmology)

Dr. Ajay Kumar Singh (MD, Professor of Ophthalmology)

Dr. Santosh Kumar Behera (Senior Scientist)

Dr. Debasish Sahoo (MD, Professor in Microbiology)

Dr. Debi Prasad Rath (MD, Professor in Pathology)

Dr. Ardhendu Praharaj (Ph. D. in Microbiology)

Dr. Harihar Praharaj (MD, Professor of Medicine)

Dr.Chandra Mouli (MD, Professor of Radiology)

Dr.Teja, Anesthesian

Prof. Sourav Karmakar (Asst. Prof. SoPAHS)

Ms. SNS Neelima (Asst. Prof. SoPAHS)

Mr. M.Vinay Dinakaran (Asst. Prof. SoPAHS)

Ms. N.Anuhya (Asst. Prof. SoPAHS)

Dr.M.L.N.Acharyulu (Associate Dean, SoPAHS)

Dr.CH.Nooka Raju (Associate Prof., SoPAHS)

Mr. Rajesh Sukkala (Asst. Prof. SoPAHS)

Dr. Ashish Kumar Sen (Adjunct Faculty, SoPAHS)

Dr. Monali P. Mishra (Assistant Prof., SoPAHS)

Ms. Sonali Dash (Assistant Prof., SoPAHS)

Ms. Susmita Chakrabarty (Lecturer, SoPAHS)



Prof. Sunil Kumar Jha (Dean, SoPAHS)

Dr. Soumya Jal (HoD, SoPAHS)

Dr. P.K. Mohanty, Dean (Acad) CUTM

All the members were welcomed to the online session by the Chairperson and were briefed regarding the purpose of the meeting. Thereafter, the Dean of SoPAHS presented on the achievements, improvements of the department in terms of academics and infrastructure.

Following are the programs offered by SoPAHS:

MSc Medical Laboratory Technology (MSc MLT) MSc Applied and Clinical Microbiology (MSc CMB) BSc Medical Laboratory Technology (BSc MLT) BSc Clinical Microbiology (BSc CMB) BSc Medical Radiation Technology (BSc MRT) BSc Optometry (BSc Optom)

Agenda of the meeting:

Agenda 1: The minutes of the last meeting of the BoS held on 22.06.2019 were confirmed.

Agenda 2: Discussion and approval on the content of syllabus for various courses of SoPAHS. Implementation of CBCS pattern.

At first, the Dean of the school presented the feedback received from several stakeholders, on the curriculum of its various departments. With respect to the feedback received from the stakeholders, the committee discussed and approved for incorporation/ modifications in the curriculum for the Academic session 2020-21.

- The committee approved to introduce the following programmes in SoPAHS: BSc Anaesthesia Technology; BSc Operation Theatre Technology; BSc Emergency Medicine Technology
- The curriculum was framed adopting the CBCS pattern.
- Based on the feedback from stakeholders, the curriculum was framed in a manner to incorporate Project/ Practical based learning. The Project and Practical components of relevant subjects were embedded along with their theory component. Much of practical exposure/ hands on training/ research and project exposure is emphasized.
- The curriculum developed is available on http://courseware.cutm.ac.in/ (links/ notes/ videos for relevant notes are also available). It was adapted in a way to ease flip class technique and enhance Virtual learning along with real time learning, which was highly appreciated by the board members.
- New courses added into the curriculum are provided in Annexure A.

Agenda 3: Inclusion of courses on life skills and value addition

For their overall development and wellbeing of the students, it was advised that students enroll in the various life skills and value-adding courses that are offered by the university. The Board members agreed and gave their approval to the same.

Details of the life skill and value added courses introduced are mentioned in Annexure B.



The Dean, SoPAHS extended sincere thanks to all the members of the Board.

The meeting ended with a vote of thanks to the Chair.

lean.

Prof. Suni Kumar Jha DEAN School of Paramedics & Allied Health Sciences Centurion University of Technology & Management Bhubaneswar, Odisha-752050

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Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050

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HÓD, SoPAHS Dr. Sounya Jal Ascociota Protessor & 1900 Bohool of Peremedics & Aulied Hooth Sciences Centurioa University of Technology & Ranagement Remechandropur, Bhubaneswar - 752050



Annexure A ·

	List of new courses added Type (Skill/ Credit			
SI. No	Course Title	Type (Skill/ Employability/ Entrepreneurship)	Credit	
	MSc MLT			
1.	Human Anatomy and Physiology	Employability	3	
2.	Analytical Techniques	Entrepreneurship	4	
3.	Biological Chemistry	Employability	3	
4.	Clinical Hematology	Entrepreneurship	4	
	Clinical Pathology	Entrepreneurship	4	
5. 6.	Cell and Molecular Biology	Employability	3	
7.	Clinical Biochemistry	Employability	3	
7. 8.	Histology	Employability	4	
8. 9.	Medical Laboratory Technology	Entrepreneurship	5	
9. 10.	Blood Banking	Entrepreneurship	4	
11.	Health Programme in India	Entrepreneurship	3	
12.	Medical Microbiology	Employability	4	
13.	Immunology & Parasitology	Employability	5	
14.	Advanced Hematology	Entrepreneurship	4	
15.	Research Methodology	Employability	3	
16.	Mini Project	Employability	2	
17.	Internship	Employability	12	
18.	Project	Employability	12	
19.	Environmental Studies	Employability	2	
20.	Job Readiness	Employability	3	
21.	Proficiency in English	Employability	2	
<u> </u>	MSc CMB			
1.	Human Anatomy and Physiology	Employability	3	
2.	Analytical Techniques	Entrepreneurship	4	
3.	Biological Chemistry	Employability	3	
4.	Clinical Hematology	Entrepreneurship	4	
5.	Clinical Pathology	Entrepreneurship	4	
6.	Cell and Molecular Biology	Employability	3	
7.	Clinical Biochemistry	Employability	3	
8.	Histology	Employability	4	
9.	General Microbiology	Employability	4	
10.	Systematic Bacteriology	Employability	4	
11.		Employability	3	
12.		Employability	5	
	Mycology			
13.		Employability	5	
14		Employability	4	
15		Employability	3	

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16.	Mini Project	Employability	2
17.	Internship	Employability	12
18.	Project	Employability	12
19.	Environmental Studies	Employability	2
20.	Job Readiness	Employability	3
21.	Proficiency in English	Employability	2
	BSc MLT		
1.	Human Anatomy and Physiology	Employability	3
2.	Cell Biology	Employability	4
3.	Medical Instrumentation and Technique	Entrepreneurship	4
4.	Biochemistry	Employability	4
5.	Clinical Pathology	Entrepreneurship	4
6.	Immunology	Employability	5
7.	Molecular Biology	Entrepreneurship	4
8.	Haematology	Entrepreneurship	5
9.	Microbiology	Employability	5
10.	Medical Law and Ethics	Employability	3
11.	Histology	Employability	4
12.	Advanced Hematology	Entrépreneurship	4
13.	Research Methodology	Employability	3
14.	Analytical Biochemistry	Employability	5
15.	Applied Haematology	Entrepreneurship	5
16.	Immunopathology	Employability	4
17.	Parasitology	Employability	5
18.	Basic Computer and Information Science	Employability	2
19.	Blood Banking	Entrepreneurship	4
20.	Medical Laboratory Management	Entrepreneurship	5
21.	Introduction to Quality and Patient Safety	Employability	5
22.	Mycology & Virology	Employability	5
23.	Mini Project	Employability	2
24.	Internship	Employability	12
25.	Project	Employability	12
26.	Environmental Studies	Employability	2
27.	Job Readiness	Employability	3
28.	Proficiency in English	Employability	2
	BSc CMB		
1.	Human Anatomy and Physiology	Employability	3
2.	Cell Biology	Employability	4
3.	Medical Instrumentation and Technique	Entrepreneurship	4
4.	Biochemistry	Employability	4
5.	Clinical Pathology	Entrepreneurship	4
6.	Immunology	Employability	5
7.	Molecular Biology	Entrepreneurship	4



8.	Haematology	Entrepreneurship	5
9.	Microbiology	Employability	5
10.	Medical Law and Ethics	Employability	3
11.	Systemic Bacteriology	Employability	4
12.	Systemic Virology & Mycology	Employability	5
13.	Research Methodology	Employability	3
14.	Analytical Biochemistry	Employability	5
15.	Public Heath Microbiology	Employability	4
16.	Pharmaceutical Microbiology	Employability	4
17.	Industrial Microbiology	Employability	4
18.	Basic Computer and Information Science	Employability	2
19.	Epidemiology	Employability	3
20.	Diagnostic Bacteriology	Entrepreneurship	5
21.	Diagnostic Mycology	Entrepreneurship	4
22.	Diagnostic Virology	Entrepreneurship	4
23.	Diagnostic Parasitology	Entrepreneurship	4
24.	Mini Project	Employability	2
25.	Internship	Employability	12
26.	Project	Employability	12
27.	Environmental Studies	Employability	2
28.	Job Readiness	Employability	3
29.	Proficiency in English	Employability	2
6.3.	BSc MRT		
1.	General Anatomy	Employability	5
2.	General Physiology	Employability	5
3.	Basic Biochemistry	Employability	5
4.	Biology	Employability	5
5.	Cell Biology	Employability	5
6.	Mathematics	Employability	5
7.	Basic Radiation Physics	Employability	4
8.	Fundamental Medical Imaging	Entrepreneurship	6
9.	Principles of Radiation Therapy	Employability	4
10.	Basic Medical Instrumentation & Technique	Entrepreneurship	4
11.	Applied Radiation Physics & Radiation Protection	Employability	4
12.	Radiographic Technique - 1	Employability	5
12.	Basic Equipment in Radiotherapy	Employability	4
14.	Mammography and Ultrasound	Entrepreneurship	4
15.	Applied Equipment of Radio Diagnosis	Employability	4
16.	Radiotherapy and Brachy Therapy in Malignant & Non-malignant Disease	Employability	4
17.		Employability	5
18.	Physics of CT & MRI	Employability	4
19.		Employability	5



1	Drug Diagnostic Radiology		
20.	Computerized Tomography (CT	Employability	4
21.	Scanning) Method & Procedure Basic of Magnetic Resonance	Employability	4
	Imaging		
22.	Image Interpretation of X-Ray Mammography, CT & MRI	Entrepreneurship	5
23.	Medical Law and Ethics	Employability	3
24.	Orientation in Clinical Sciences Course contents	Employability	4
25.	Basic Computer and Information	Employability	2
	Science	Employability	18
26.	Project	Employability	18
27.	Internship	Employability	2
28.	Environmental Studies	Employability	3
29.	Job Readiness	Employability	2
30.	Proficiency in English	Employability	<u>د</u>
	BSc Optometry	Employability	4
1.	Biology	Employability	4
2.	Maths	Employability	4
3.	Cell Biology	Employability	5
4.	General Anatomy	and the second se	5
5.	General Physiology	Employability	5
6.	Basic Biochemistry	Employability	5
7.	GEOMETRIC OPTICS	Employability	2
8.	BASIC COMPUTER AND INFORMATION SCIENCE	Employability	
9.	OCULAR ANATOMY	Employability	4
10.	OCULAR PHYSIOLOGY	Employability	4
11.	INTRODUCTION TO OPTOMETRY	Employability	2
12.	PHYSICAL OPTICS	Entrepreneurship	4
13.	VISUAL OPTICS -I	Entrepreneurship	5
14.	OPTOMETRIC OPTICS -I	Entrepreneurship	5
15.	OCULAR DISEASES I	Entrepreneurship	4
16.	OCULAR MICROBIOLOGY & PATHOLOGY	Employability	4
17.	THE REPORT OF THE PROPERTY OF	Entrepreneurship	2
18.	VISUAL OPTICS	Entrepreneurship	5
19.		Employability	5
20.		Employability	4
20.		Entrepreneurship	5
22.		Entrepreneurship	5
23.		Entrepreneurship	5
24.		Entrepreneurship	4
25.		Employability	4
26.		Entrepreneurship	5
27.		Employability	4



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OPTOMETRY		
SYSTEMIC DISEASES & EYE	Employability	4
OCCUPATIONAL OPTOMETRY	Entrepreneurship	3
LAW & OPTOMETRY	Employability	3
PUBLIC HEALTH& COMMUNITY	Employability	3
OPTOMETRY		
OPTOMETRIC INSTRUMENTS	Entrepreneurship	4
PROJECT	Employability	18
INTERNSHIP	Employability	20
Environmental Studies	Employability	2
	Employability	3
	Employability	2
	OPTOMETRY SYSTEMIC DISEASES & EYE OCCUPATIONAL OPTOMETRY LAW & OPTOMETRY PUBLIC HEALTH& COMMUNITY OPTOMETRY OPTOMETRIC INSTRUMENTS PROJECT	SYSTEMIC DISEASES & EYEEmployabilityOCCUPATIONAL OPTOMETRYEntrepreneurshipLAW & OPTOMETRYEmployabilityPUBLIC HEALTH& COMMUNITYEmployabilityOPTOMETRYEmployabilityOPTOMETRYEntrepreneurshipPROJECTEmployabilityINTERNSHIPEmployabilityEnvironmental StudiesEmployabilityJob ReadinessEmployability



Annexure B

List of Skill courses (Basket) approved

SI.	Course Title	Credit	(T+P+P)
No	Refraction Technology (CUTM3057)	4	0+3+1
1. 2.	Emergency Medical Technology (CUTM3058)	4	0+3+1
3.	Medical Lab Technology (CUTM3059)	4	0+3+1
4.	Operation Theatre Technology (CUTM3060)	4	0+3+1
5.	Radiology Technology (CUTM3061)	4	0+3+1
<u>5.</u> 6.	Phlebotomy Technology (CUTM3062)	4	0+3+1
7.	First Aid Service (CUTM3063)	4	0+3+1
8.	General Duty Assistance Service (CUTM3064)	4	0+3+1
9.	X- ray Technology (CUTM3065)	4	0+3+1
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List of value-added courses approved

SI. Course Title		Hrs. of input
No		20 bro
1.	Gender, Human Rights and Ethics (CUVA4040)	30 hrs



School of Paramedics and Allied Health Sciences

Time: 11.00 AM

Date: 11.07.2020

Venue: Hybrid mode (Board Room, CUTM, Bhubaneswar and online)

Board of Studies Meeting

Attendance Sheet

Sl. No.	Name of the BOS Member (Internal Faculty and External Resource)	Designation	Signature
1	Dr. Santosh Kumar Behera	Regional Medical Research Center	Attended online
2	Dr. Debasish Sahoo	SOA University	Attended online
3	Dr. Debi Prasad Rath	CARE Hospital	Attended online
4	Dr. Ardhendu Praharaj	District Microbiology Lab, Nabarangpur	Attended online
5	Dr. Harihar Praharaj	Directorate of Medical Education and Training, Odisha	Attended online
6	Dr. Bhargavram	MD, Professor of Opthalmology, Sandhya Eye Hospital, Andhra Pradesh	Attended online
7	Dr. Ajay Kumar Singh	MD, Professor of Ophthalmology, DHC Khordha	Attended online
8	Dr.Chandra Mouli	Radiology Dept., GVP Institute of Health Care and Medical Technology,Marika valasa, Visakhapatnam,A.P	Attended online
9	Dr.M.Bhargava Ram	Opthamologist, Sandhya Eye Hospital, Maddilapale, Visakhapatnam	Attended online
10	Dr.Teja	Anesthesian	Attended online
11	Dr. Monali P. Mishra	Assistant Prof., SoPAHS (CUTM)	Attended online
12	Ms. Sonali Dash	Assistant Prof., SoPAHS (CUTM)	Attended online
13	Ms. Susmita Chakrabarty	Lecturer, SoPAHS (CUTM)	Attended online
14	Prof. Sourav Karmakar	Asst. Prof. & HoD, SoPAHS (CUTM)	Attended online
15	Ms. SNS Neelima	Asst. Prof. SoPAHS (CUTM)	Attended online
16	Dr.CH.Nooka Raju	Associate Prof., SoPAHS (CUTM)	Attended online
17	Mr. M.Vinay Dinakaran	Asst. Prof. SoPAHS (CUTM)	Attended online



	UNIVERSITY	
Ms. N.Anuhya	Asst. Prof. SoPAHS (CUTM)	Attended online
Dr.M.L.N.Acharyulu	Associate Dean, SoPAHS (CUTM)	Attended online
		Mis. N.Anunya Assertion Solution (Clutter)

Dear, SoPAHS

Prof. Sunil Humar Jha DEAN School of Paramedics & Allied Health Sciences Centurion University of Technology & Management Bhubaneswar, Odisha-752050

Dean, Academics

HODESEPAHSOO

School of Asternatics & Ailled Health Sciences Centurion University of Technology & ManagementCenturion University & ManagementCenturion University & ManagementCenturion University & ManagementCenturion University



School of Paramedics and Allied Health Sciences

Date: 11/07/2020

MINUTES OF BOARD OF STUDIES MEETING held on 11/07/2020

Venue: Hybrid mode (Board Room, CUTM, Bhubaneswar and online)

Time: 11.00 AM

The Board of Studies (BoS) meeting of School of Paramedics and Allied Health Sciences was held on 11/07/2020 at 11 AM in hybrid mode.

The following members were present:

Dr. Bhargavram (MD, Professor of Opthalmology)

Dr. Ajay Kumar Singh (MD, Professor of Ophthalmology)

Dr. Santosh Kumar Behera (Senior Scientist)

Dr. Debasish Sahoo (MD, Professor in Microbiology)

Dr. Debi Prasad Rath (MD, Professor in Pathology)

Dr. Ardhendu Praharaj (Ph. D. in Microbiology)

Dr. Harihar Praharaj (MD, Professor of Medicine)

Dr.Chandra Mouli (MD, Professor of Radiology)

Dr.Teja, Anesthesian

Prof. Sourav Karmakar (Asst. Prof. SoPAHS)

Ms. SNS Neelima (Asst. Prof. SoPAHS)

Mr. M.Vinay Dinakaran (Asst. Prof. SoPAHS)

Ms. N.Anuhya (Asst. Prof. SoPAHS)

Dr.M.L.N.Acharyulu (Associate Dean, SoPAHS)

Dr.CH.Nooka Raju (Associate Prof., SoPAHS)

Mr. Rajesh Sukkala (Asst. Prof. SoPAHS)

Dr. Ashish Kumar Sen (Adjunct Faculty, SoPAHS)

Dr. Monali P. Mishra (Assistant Prof., SoPAHS)

Ms. Sonali Dash (Assistant Prof., SoPAHS)

Ms. Susmita Chakrabarty (Lecturer, SoPAHS)



Prof. Sunil Kumar Jha (Dean, SoPAHS)

Dr. Soumya Jal (HoD, SoPAHS)

Dr. P.K. Mohanty, Dean (Acad) CUTM

All the members were welcomed to the online session by the Chairperson and were briefed regarding the purpose of the meeting. Thereafter, the Dean of SoPAHS presented on the achievements, improvements of the department in terms of academics and infrastructure.

Following are the programs offered by SoPAHS:

MSc Medical Laboratory Technology (MSc MLT) MSc Applied and Clinical Microbiology (MSc CMB) BSc Medical Laboratory Technology (BSc MLT) BSc Clinical Microbiology (BSc CMB) BSc Medical Radiation Technology (BSc MRT) BSc Optometry (BSc Optom)

Agenda of the meeting:

Agenda 1: The minutes of the last meeting of the BoS held on 22.06.2019 were confirmed.

Agenda 2: Discussion and approval on the content of syllabus for various courses of SoPAHS. Implementation of CBCS pattern.

At first, the Dean of the school presented the feedback received from several stakeholders, on the curriculum of its various departments. With respect to the feedback received from the stakeholders, the committee discussed and approved for incorporation/ modifications in the curriculum for the Academic session 2020-21.

- The committee approved to introduce the following programmes in SoPAHS: BSc Anaesthesia Technology; BSc Operation Theatre Technology; BSc Emergency Medicine Technology
- The curriculum was framed adopting the CBCS pattern.
- Based on the feedback from stakeholders, the curriculum was framed in a manner to incorporate Project/ Practical based learning. The Project and Practical components of relevant subjects were embedded along with their theory component. Much of practical exposure/ hands on training/ research and project exposure is emphasized.
- The curriculum developed is available on http://courseware.cutm.ac.in/ (links/ notes/ videos for relevant notes are also available). It was adapted in a way to ease flip class technique and enhance Virtual learning along with real time learning, which was highly appreciated by the board members.
- New courses added into the curriculum are provided in Annexure A.

Agenda 3: Inclusion of courses on life skills and value addition

For their overall development and wellbeing of the students, it was advised that students enroll in the various life skills and value-adding courses that are offered by the university. The Board members agreed and gave their approval to the same.

Details of the life skill and value added courses introduced are mentioned in Annexure B.



The Dean, SoPAHS extended sincere thanks to all the members of the Board.

The meeting ended with a vote of thanks to the Chair.

lean.

Prof. Suni Kumar Jha DEAN School of Paramedics & Allied Health Sciences Centurion University of Technology & Management Bhubaneswar, Odisha-752050

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Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050

11/7/20

HÓD, SoPAHS Dr. Sounya Jal Ascociota Protessor & 1900 Bohool of Peremedics & Aulied Hooth Sciences Centurioa University of Technology & Ranagement Remechandropur, Bhubaneswar - 752050



Annexure A ·

List (of new courses added		
SI. No	Course Title	Type (Skill/ Employability/ Entrepreneurship)	Credit
	MSc MLT		
1.	Human Anatomy and Physiology	Employability	3
2.	Analytical Techniques	Entrepreneurship	4
3.	Biological Chemistry	Employability	3
4.	Clinical Hematology	Entrepreneurship	4
5.	Clinical Pathology	Entrepreneurship	4
5. 6.	Cell and Molecular Biology	Employability	3
7.	Clinical Biochemistry	Employability	3
8.	Histology	Employability	4
o. 9.	Medical Laboratory Technology	Entrepreneurship	5
10.	Blood Banking	Entrepreneurship	4
11.	Health Programme in India	Entrepreneurship	3
12.	Medical Microbiology	Employability	4
13.	Immunology & Parasitology	Employability	5
14.	Advanced Hematology	Entrepreneurship	4
15.	Research Methodology	Employability	3
16.	Mini Project	Employability	2
17.	Internship	Employability	12
18.	Project	Employability	12
19.	Environmental Studies	Employability	2
20.	Job Readiness	Employability	3
21.	Proficiency in English	Employability	2
	MSc CMB		
1.	Human Anatomy and Physiology	Employability	3
2.	Analytical Techniques	Entrepreneurship	4
3.	Biological Chemistry	Employability	3
4.	Clinical Hematology	Entrepreneurship	4
5.	Clinical Pathology	Entrepreneurship	4
6.	Cell and Molecular Biology	Employability	3
7.	Clinical Biochemistry	Employability	3
8.	Histology	Employability	4
9.	General Microbiology	Employability	4
10.	Systematic Bacteriology	Employability	4
11.	Applied microbiology	Employability	3
12.	Medical Parasitology and Mycology	Employability	5
13.		Employability	5
14.		Employability	4
15.		Employability	3

List of new courses added



16.	Mini Project	Employability	2
17.	Internship	Employability	12
18.	Project .	Employability	12
19.	Environmental Studies	Employability	2
20.	Job Readiness	Employability	3
21.	Proficiency in English	Employability	2
	BSc MLT		
1.	Human Anatomy and Physiology	Employability	3
2.	Cell Biology	Employability	4
3.	Medical Instrumentation and Technique	Entrepreneurship	4
4.	Biochemistry	Employability	4
5.	Clinical Pathology	Entrepreneurship	4
6.	Immunology	Employability	5
7.	Molecular Biology	Entrepreneurship	4
8.	Haematology	Entrepreneurship	5
9.	Microbiology	Employability	5
10.	Medical Law and Ethics	Employability	3
11.	Histology	Employability	4
12.	Advanced Hematology	Entrépreneurship	4
13.	Research Methodology	Employability	3
14.	Analytical Biochemistry	Employability	5
15.	Applied Haematology	Entrepreneurship	5
16.	Immunopathology	Employability	4
17.	Parasitology	Employability	5
18.	Basic Computer and Information Science	Employability	2
19.	Blood Banking	Entrepreneurship	4
20.	Medical Laboratory Management	Entrepreneurship	5
21.	Introduction to Quality and Patient Safety	Employability	5
22.	Mycology & Virology	Employability	5
23.	Mini Project	Employability	2
24.	Internship	Employability	12
25.	Project	Employability	12
26.	Environmental Studies	Employability	2
27.	Job Readiness	Employability	3
28.	Proficiency in English	Employability	2
	BSc CMB		
1.	Human Anatomy and Physiology	Employability	3
2.	Cell Biology	Employability	4
3.	Medical Instrumentation and Technique	Entrepreneurship	4
4.	Biochemistry	Employability	4
5.	Clinical Pathology	Entrepreneurship	4
6.	Immunology	Employability	5
7.	Molecular Biology	Entrepreneurship	4



8.	Haematology	Entrepreneurship	5
9.	Microbiology	Employability	5
10.	Medical Law and Ethics	Employability	3
11.	Systemic Bacteriology	Employability	4
12.	Systemic Virology & Mycology	Employability	5
13.	Research Methodology	Employability	3
14.	Analytical Biochemistry	Employability	5
15.	Public Heath Microbiology	Employability	4
16.	Pharmaceutical Microbiology	Employability	4
17.	Industrial Microbiology	Employability	4
18.	Basic Computer and Information Science	Employability	2
19.	Epidemiology	Employability	3
20.	Diagnostic Bacteriology	Entrepreneurship	5
21.	Diagnostic Mycology	Entrepreneurship	4
22.	Diagnostic Virology	Entrepreneurship	4
23.	Diagnostic Parasitology	Entrepreneurship	4
24.	Mini Project	Employability	2
25.	Internship	Employability	12
26.	Project	Employability	12
27.	Environmental Studies	Employability	2
28.	Job Readiness	Employability	3
29.	Proficiency in English	Employability	2
6.3.	BSc MRT		
1.	General Anatomy	Employability	5
2.	General Physiology	Employability	5
3.	Basic Biochemistry	Employability	5
4.	Biology	Employability	5
5.	Cell Biology	Employability	5
6.	Mathematics	Employability	5
7.	Basic Radiation Physics	Employability	4
8.	Fundamental Medical Imaging	Entrepreneurship	6
9.	Principles of Radiation Therapy	Employability	4
10.	Basic Medical Instrumentation & Technique	Entrepreneurship	4
11.	Applied Radiation Physics & Radiation Protection	Employability	4
12.	Radiographic Technique - 1	Employability	5
12.	Basic Equipment in Radiotherapy	Employability	4
14.	Mammography and Ultrasound	Entrepreneurship	4
15.	Applied Equipment of Radio Diagnosis	Employability	4
16.	Radiotherapy and Brachy Therapy in Malignant & Non-malignant Disease	Employability	4
17.		Employability	5
18.		Employability	4
19.		Employability	5



1	Drug Diagnostic Radiology		
20.	Computerized Tomography (CT Scanning) Method & Procedure	Employability	4
21.	Basic of Magnetic Resonance	Employability	4
22.	Imaging Image Interpretation of X-Ray	Entrepreneurship	5
	Mammography, CT & MRI	Employability	3
23.	Medical Law and Ethics		4
24.	Orientation in Clinical Sciences Course contents	Employability	
25.	Basic Computer and Information Science	Employability	2
26.	Project	Employability	18
27.	Internship	Employability	18
28.	Environmental Studies	Employability	2
29.	Job Readiness	Employability	3
30.	Proficiency in English	Employability	2
50.	BSc Optometry		
1.	Biology	Employability	4
2.	Maths	Employability	4
2. 3.	Cell Biology	Employability	4
<u>3.</u> 4.	General Anatomy	Employability	5
5.	General Physiology	Employability	5
5. 6.	Basic Biochemistry	Employability	5
2010	GEOMETRIC OPTICS	Employability	5
7.	BASIC COMPUTER AND	Employability	2
8.	INFORMATION SCIENCE		
9.	OCULAR ANATOMY	Employability	4
10.	OCULAR PHYSIOLOGY	Employability	4
11.	INTRODUCTION TO OPTOMETRY	Employability	2
12.	PHYSICAL OPTICS	Entrepreneurship	4
13.	VISUAL OPTICS –I	Entrepreneurship	5
14.	OPTOMETRIC OPTICSI	Entrepreneurship	5
15.	OCULAR DISEASES –I	Entrepreneurship	4
16.	and a second a second a second a	Employability	4
17.	THE PROPERTY AND A DECIDE	Entrepreneurship	2
18.		Entrepreneurship	5
19.		Employability	5
20.		Employability	4
20.		Entrepreneurship	5
22.		Entrepreneurship	5
23.		Entrepreneurship	5
24.		Entrepreneurship	4
25.		Employability	4
26.		Entrepreneurship	5
27		Employability	4



UNIVERSI	18	
OPTOMETRY		
SYSTEMIC DISEASES & EYE	Employability	4
OCCUPATIONAL OPTOMETRY	Entrepreneurship	3
LAW & OPTOMETRY	Employability	3
PUBLIC HEALTH& COMMUNITY	Employability	3
OPTOMETRY		
OPTOMETRIC INSTRUMENTS	Entrepreneurship	4
PROJECT	Employability	18
INTERNSHIP	Employability	20
Environmental Studies	Employability	2
	Employability	3
	Employability	2
	OPTOMETRY SYSTEMIC DISEASES & EYE OCCUPATIONAL OPTOMETRY LAW & OPTOMETRY PUBLIC HEALTH& COMMUNITY OPTOMETRY OPTOMETRIC INSTRUMENTS PROJECT	SYSTEMIC DISEASES & EYEEmployabilityOCCUPATIONAL OPTOMETRYEntrepreneurshipLAW & OPTOMETRYEmployabilityPUBLIC HEALTH& COMMUNITYEmployabilityOPTOMETRYEmployabilityOPTOMETRYEntrepreneurshipPROJECTEmployabilityINTERNSHIPEmployabilityEnvironmental StudiesEmployabilityJob ReadinessEmployability



Annexure B

List of Skill courses (Basket) approved

SI.	Course Title	Credit	(T+P+P)
No	Refraction Technology (CUTM3057)	4	0+3+1
1. 2.	Emergency Medical Technology (CUTM3058)	4	0+3+1
3.	Medical Lab Technology (CUTM3059)	4	0+3+1
4.	Operation Theatre Technology (CUTM3060)	4	0+3+1
5.	Radiology Technology (CUTM3061)	4	0+3+1
<u>5.</u> 6.	Phlebotomy Technology (CUTM3062)	4	0+3+1
7.	First Aid Service (CUTM3063)	4	0+3+1
8.	General Duty Assistance Service (CUTM3064)	4	0+3+1
9.	X- ray Technology (CUTM3065)	4	0+3+1
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List of value-added courses approved

SI.	Course Title	Hrs. of input
No		20 bro
1.	Gender, Human Rights and Ethics (CUVA4040)	30 hrs



School of Paramedics and Allied Health Sciences

Time: 11.00 AM

Date: 11.07.2020

Venue: Hybrid mode (Board Room, CUTM, Bhubaneswar and online)

Board of Studies Meeting

Attendance Sheet

Sl. No.	Name of the BOS Member (Internal Faculty and External Resource)	Designation	Signature
1	Dr. Santosh Kumar Behera	Regional Medical Research Center	Attended online
2	Dr. Debasish Sahoo	SOA University	Attended online
3	Dr. Debi Prasad Rath	CARE Hospital	Attended online
4	Dr. Ardhendu Praharaj	District Microbiology Lab, Nabarangpur	Attended online
5	Dr. Harihar Praharaj	Directorate of Medical Education and Training, Odisha	Attended online
6	Dr. Bhargavram	MD, Professor of Opthalmology, Sandhya Eye Hospital, Andhra Pradesh	Attended online
7	Dr. Ajay Kumar Singh	MD, Professor of Ophthalmology, DHC Khordha	Attended online
8	Dr.Chandra Mouli	Radiology Dept., GVP Institute of Health Care and Medical Technology,Marika valasa, Visakhapatnam,A.P	Attended online
9	Dr.M.Bhargava Ram	Opthamologist, Sandhya Eye Hospital, Maddilapale, Visakhapatnam	Attended online
10	Dr.Teja	Anesthesian	Attended online
11	Dr. Monali P. Mishra	Assistant Prof., SoPAHS (CUTM)	Attended online
12	Ms. Sonali Dash	Assistant Prof., SoPAHS (CUTM)	Attended online
13	Ms. Susmita Chakrabarty	Lecturer, SoPAHS (CUTM)	Attended online
14	Prof. Sourav Karmakar	Asst. Prof. & HoD, SoPAHS (CUTM)	Attended online
15	Ms. SNS Neelima	Asst. Prof. SoPAHS (CUTM)	Attended online
16	Dr.CH.Nooka Raju	Associate Prof., SoPAHS (CUTM)	Attended online
17	Mr. M.Vinay Dinakaran	Asst. Prof. SoPAHS (CUTM)	Attended online



	UNIVERSITY	
Ms. N.Anuhya	Asst. Prof. SoPAHS (CUTM)	Attended online
Dr.M.L.N.Acharyulu	Associate Dean, SoPAHS (CUTM)	Attended online
		Mis. N.Anunya Assertion Solution (Clutter)

Dear, SoPAHS

Prof. Sunil Humar Jha DEAN School of Paramedics & Allied Health Sciences Centurion University of Technology & Management Bhubaneswar, Odisha-752050

Dean, Academics

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School of Asternatics & Ailled Health Sciences Centurion University of Technology & ManagementCenturion University & ManagementCenturion University & ManagementCenturion University & ManagementCenturion University



School of Applied Sciences

Department of Physics

Date: 11.07.2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Venue: Conducted in online mode

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Physics was conducted in online mode on **11.07.2020** at 11 a.m. The following are the board members:

- Dr. P. K. Jain, Scientist -G, Center Head for Carbon materials division of ARCI, HYD, External expert
- 2. Dr. J K Rath, Director, Mechem Private Ltd, Bhubaneswar, External expert
- 3. Dr. Debadhyana Behera, Dept. of Physics, Ravenshaw University, External expert.
- 4. Prof. Dipankar Bhattacharyay, Dean SoAS.
- 5. Prof. Mohammed Siddique, Associate Dean- SoAS
- 6. Dr. Tapan Dash, HoD, Department of Physics, CUTM BBSR
- 7. Dr. Subrata Sarangi, Professor, Dept of Physics, UCTM, BBSR
- 8. Ms. Sushree Subhadarsi Bhole, MSc Alumni
- 9. Few M.Sc and B.Sc students of CUTM.

At the outset, Dean SoAS welcomed the invited (external) experts from industry and academia and addressed all the participants. HE outlined the broad contours of academic developments with respect to emerging research and skill integration areas and pointed out how the University has aligned its curricula keeping in view these developments. He also outlined how the University examination system is being reformed aligning it with the current trends and evolving methods of pedagogy and academic delivery. The steps being taken to execute all academic programs of the University in Covid-19 conditions were also pointed out by him.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 30.06.2019 were confirmed.

Agenda 2: Revision of Curriculum for the programme B.Sc. Physics and M.Sc. Physics.

• Based on the feedback received on curriculum outlining the suggestions made by the various stakeholders, it was suggested that the revised curriculum for B.Sc. and M.Sc. programmes is to be implemented from the academic year 2020-21.



- The detailed course outline and Syllabus of Department of Physics was presented by Prof. Mohammed Siddique, Associate Dean, SoAS.
- The external experts (industrial and academic) appreciated the general approach of the University dividing the curriculum into Core, Domain and Skill Courses and noted with satisfaction, the syllabi being upto-date and with due stress on practice and skill.
- They also noted with satisfaction that the syllabi of all BSc core courses was aligned to the UGC prescribed curriculum. It was also suggested that a BSc level, the foundation (or core) courses with basic concepts should be taught well including appropriate proportions of theory, practice, projects. Advanced topics like Graphene, Nano-materials, etc may be included as electives and at introductory level only.
- The experts also appreciated the advanced and focused nature of the MSc Core courses. Inclusion of advanced Materials Science topics such as Graphene, Composite Materials etc. was highly appreciated. Inclusion of Internship components into the MSc curriculum was also strongly suggested.
- The Board of study members recommended and approved the syllabus for both B.Sc. and M.Sc. programs (Annexure-1) to be taught in the upcoming semesters.

Agenda 3: : Regarding domain courses

 It was decided that students will take the domain courses offered by the University. Out of the different category of Domain courses Group B category is for Physics students. (Annexure-2)

Agenda 4: : Regarding skills and value added courses

It was suggested that students will take the skill and value added courses offered by the University. The same was approved by the Board members. (Annexure-3 &4)

The HoD, Department of Physics. extended his sincere thanks to all members of the Board.

The meeting was adjourned with Vote of Thanks by the Registrar Prof. Anita Patra. She thanked all the external members present in the meeting for sparing their valuable time from their busy schedule and make it successful.

Abour

Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050



Annexure-1

List of new courses approved

B.Sc. Physics

SI. No	Course Title	Type(Skill/Employability /Entrepreneurship	Credit
1	Mathematical Physics-I	Skill	6
2 .	Mechanics	Skill	6
3	Thermal Physics	Employability & Skill	6
4	Waves and Optics	Employability & Skill	6
5	Mathematical Physics-II	Skill	6
6	Electricity and Magnetism	Employability & Skill	6
7	Analog System and Application	Employability & Skill	6
8	Mathematical Physics-III	Skill	6
9	Elements of Modern Physics	Employability & Skill	6
10	Digital Systems and Applications	Employability & Skill	6
11	Quantum Mechanics and Applications	Employability & Skill	6
12	Solid State Physics	Employability & Skill	6
13	Electromagnetic Theory	Skill	6
14	Statistical Mechanics	Skill	6

M.Sc. Physics

SI. No	Course Title	Type(Skill/Employabilit y/Entrepreneurship	Credit
1	Energy storage materials	Employability	4
2	Bio and bimimetic nano materials	Employability	4
3	Photovoltaic technology and nanocatalysts	Employability	4
4	Advanced characterization techniques	Skill	4
5	Smart and electronic materials	Skill	4
6	Corrosion and advanced coating application	Employability	4
7	Synthesis and application of nano composites	Skill & Employability	4
8	Material behavior of nanostructures	Skill	4
9	Emerging materials	Employability	4
10	Synthesis routes of nanomaterials	Skill	4
11	Computational materials science	Skill	4
12	Plasma technology	Employability	4
13	Essentials of nanomaterials	Skill	4
14	Advanced quantum mechanics	Skill	4
15	Physics of solids and semiconductors	Skill	4
16	Laser technology	Skill	4



Annexure-2

Domain Courses approved by the University 2020-21.

	Group A: Agriculture/ Agri Engineering/Phyto pharma/ Dairy tech/ fisheries/ biological sciences					
	Group B: All other engineering/physical and mathematical science/vocational or skills					
	Group C: Pharmacy and allied Health			30.000 8.25250		
	Group D: Management & media and communicatio	n				
SI. No.	Name of the Domain	Credit	Category	Year of introduction		
1	Advance Video Processing, Computer Vision and Machine Learning	30	A/B/D	2020		
2	Aerial Survey and Remote Sensing Applications	18	A/B	2020		
3	Agri Business Management	23	A/B/D	2020		
4	Architectural and Structural Design	20	A/B	2020		
5	Business Analytics	21	A/B/D	2020		
6	Chip Design and Fabrication using VLSI	18	В	2020		
7	Commodity and Food Storage	29	A/B/D	2020		
8	Communication Systems	18	В	2020		
9	Composite Design and Manufacturing	24	A/B	2020		
10	Computational Fluid Dynamics	20	A/B	2020		
11	Cyber Security	24	В	2020		
12	Dairy Processing and Development	28	A/B	2020		
13	Fish Processing Technology	29	A/B	2020		
14	Food Processing	29	A/B/D	2020		
15	Gaming and Immersive Learning (AR & VR)	20	A/B/D	2020		
16	Go-To-Market	22	A/B/D	2020		
17	Health Care Assistancy	25	A/B	2020		
18	Manufacturing Execution System	18	В	2020		
19	Nutraceuticals	29	A/C	2020		
20	Protected Horticulture	29	A/B	2020		
21	Renewable Energy Applications	22	A/B	2020		
22	Smart Agriculture	29	A/B	2020		
23	Smart Farm Machinery	28	A/B	2020		
24	Soil and Water Conservation through Watershed	28	A/B	2020		



Skill Courses approved by the university in 2020-21.

SI. No.	Course Title	Credit
1	Introduction to Quantum Computing	4
2	Organic Farming	4
3	Mushroom Farming	4
4	Hydroponics Technology	4
5	Poultry Farming	4
6	Dairy Farming	4
7	Vermicomposting Farming	4
8	Transformer Manufacturing, Repairing and Maintenance	4
9	Electrical Installation	4
10	Repair and Maintenance of Home Appliances	4
11	Refrigeration and air conditioning	4
12	Super critical CO ₂ plant operation	4
13	Business Plan Preparation	4
14	Composite fabrication practice	4
15	Powder coating practice	4
16	Farm appliances operation	4
17	Bio fertilizers preparation	4
18	PCB designing & fabrication	4
19	Introduction to Block Chain Technology	4
20	Introduction to Nutraceuticals	4
21	Introduction to NLP	4
22	Introduction to Computational Biology	4
23	Product Life Cycle Management through Gate process	4
24	New material development with Biovia	4
25	Spectral image processing using Python	4
26	Satellite data processing	4
27	Working with Graphene and carbon fibre	4
28	Adobe Tools and Illustrations	4
29	Digital Painting	4
30	Computer Installation and Maintenance	4

Annexure-4

Value Added courses offered by the university in 2020-21.

	Course Title	Credit
1	Natural Resource Management	30 Hours
2	Research Methodology and IPR	30 Hours
3	Urban Gardens using Hydroponics	30 Hours



4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organic Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	30 Hours
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
15	Financial Literacy	30 Hours
16	Yoga and Meditation	30 Hours
17	Steps for Career Plan	30 Hours
18	MS Excel Basics	30 Hours
19	Quality Analysis	30 Hours
20	Ethical Writing Practice	30 Hours
21	Ansys	30 Hours
22	Video Making for Youtubers	30 Hours

School of Applied Sciences Department of Physics

Date: 11.07.2020

Time: 11.00 a.m.

Venue: Conducted in online mode

Board of Studies Meeting Attendance Sheet

SI.	Name of the Member	Designation	Signature
No	I		



1	Dr. P. K. Jain	Scientist -G, Center Head for Carbon materials division of ARC1, HYD	Attended Online
2	Dr. J K Rath	Director, Mechem Private Ltd, Bhubaneswar	Attended Online
3	Dr. Debadhyana Behera	Dept. of Physics, Revenshaw University	Attended Online
4	Prof. Dipankar Bhattacharyay	Dean – SoAS, Centurion University of Technology and Management	Attended Online
5	Prof. Mohammed Siddique	Associate Dean- SoAS, Centurion University of Technology and Management	Attended Online
6	Dr. Tapan Dash	HoD- Dept of Physics- SoAS,Centurion University of Technology and Management	Attended Online
7	Dr. Subrata Sarangi	Professor, Dept of Physics- SoAS,Centurion University of Technology and Management	Attended Online
8	Sushree Subhadarsi Bhole	MSc Alumnus, Centurion University of Technology and Management	Attended Online
9	Sarita Nayak	MSc Alumnus, Centurion University of Technology and Management	Attended Online
10	Debabrata Mishra	MSc student (Continuing) Centurion University of Technology and Management	Attended Online
11	Nishikanta Mishra	MSc student (Continuing) Centurion University of Technology and Management	Attended Online
12	BapuramVenkateswar Samantaray	MSc student (Continuing) Centurion University of Technology and Management	Attended Online
13	Sulipta Das	MSc Alumnus, Centurion University of Technology and Management	Attended Online
14	Sanjay Kumar Harichandan	MSc Alumnus, Centurion University of Technology and Management	Attended Online
15	Priyabadini Biswal	MSc Alumnus, Centurion University of Technology and Management	Attended Online
16	Alisha Dalai	MSc Alumnus, Centurion University of Technology and Management	Attended Online
17	Monalisa B D Subham	BSc Alumnus, Centurion University of Technology and Management	Attended Online
18	Susmita Rani Pradhan	BSc Student (Continuing) Centurion University of Technology and Management	Attended Online
19	Jyotir Jagadananda Sahoo	BSc student (Continuing) Centurion University of Technology and Management	Attended Online
20	Sadia Masih	BSc Alumnus, Centurion University of Technology and Management	Attended Online
21	Saumya Sarthak Nayak	BSc Alumnus, Centurion University of Technology and Management	Attended Online
22	Ayush Kumar Sahu	BSc student (Continuing) Centurion University of Technology and Management	Attended Online
23	Soumya Sonali kar	BSc student (Continuing)	Attended Online



		Centurion University of Technology and Management	
24	Amit Kumar Pradhan	BSc student (Continuing) Centurion University of Technology and Management	Attended Online

Astron

Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



School of Applied Sciences Department of Chemistry

Date: 11.07.2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Venue: Online mode through Zoom Link

Time: 2.30 p.m.

The Board of Studies meeting was conducted in online mode due to ongoing Covid-19 Pandemic on 11th July 2020 at 2.30 pm. The following members were present:

- 1. Dr. Kishore Sarkar(Subject Expert, External Member)
- Dr. J. K. Rath(Industry Personel, External Member)
- Dr. J. K. Rath(Industry Poisoner, Entropy 2019)
 Prof. Dipankar Bhattacharyay (Dean, SoAS)CUTM, BBSR Campus
- Prof. Dipankar Bilatacharyay (Dean, John Physics Campus
 Prof. Mohammed Siddique(Associate Dean), CUTM, BBSR Campus
- 5. Dr.Susanta Kumar Biswal
- 6. Dr.Atia Arzoo
- 7. Sonali Sasmal
- 8. Supriya Rath
- 9. Tanvi Tanisha Panda
- 10. Piyali Deb
- 11. Renukanta Naik
- 12. Satyajit Pradhan
- 13. Somia Rani Patel

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Chemistry presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 22.11.2019 were confirmed.

Agenda 2: Total Revision in the Curriculum of B.Sc (Hons.), M.Sc program, domain syllabus for B.Sc and M.Sc.

- At the outset Dean, SoAS addressed the participants and welcomed sharing key academic developments with respect to emerging research areas, online classes and examination
- The detailed course outline and Syllabus of Department of Chemistry was presented by Associate Dean, Prof. Mohammed Siddique.
- The HoD, Chemistry gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2019-20.



- With reference to the suggestions of the members present it was decided that more emphasis should be given to practice classes so that students will have more practical based approach in the proposed practices and research review can also be included in the practice sessions.
- The reference books and textbooks to be added that are more specific and advanced keeping an eye on the course curriculum, which would be suitable for the learners.
- Making students skilled with tomorrows research challenges it was decided to include at least two to three original research papers as reference.
- Flip classes and Seminars should be conducted to encourage students to present original research papers to discuss smart experiments.
- Beyond Academics Students should be encouraged to visit various research centers, industries to have a practical perspective towards the subject.
- The members went through the scheme and syllabus for new M. Sc. courses and commented to be well structured and sound enough to enrich students in acquiring skills required by students to pursue higher research, self employment and setting up of start ups.
- The Board of Study members recommended and approved the syllabus for both B. Sc.(Annexure-I) and M. Sc.(Annexure-II) Programs and domain subjects(Annexure-III) for both programs mentioned here to be taught in upcoming semesters.

Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills(Annexure-IV) and value addition (Annexure-V)for their overall improvement and well being. The same was agreed upon and approved by the Board members.

• The meeting ended with a Vote of Thanks by the Dean, SoAS.

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Sayan

Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



Annexure-I

Sl. No	Course Title	Type(Skill/Employability/E ntrepreneurship	Credit
	B.Sc Progra	m	
1	Atomic Structure and Chemical bonding-I	Employabilityand Skill	6
2	States of matter and ionic equilibrium	Employability and Skill	6
2	Basics and Hydrocarbons	Employability and Skill	6
3 4	Chemical Thermodynamics and its application	Employability and Skill	6
5	S- and P-block elements	Employability and Skill	6
6	Oxygen Containing Functional Groups	Employability and Skill	6
×5.4	Phase Equilibria& Chemical Kinetics	Employability and Skill	6
7	Coordination Chemistry	Employability and Skill	6
8	Heterocyclic Chemistry	Employability and Skill	6
9	Electrochemistry	Employability and Skill	6
10	Bio-molecules	Employability and Skill	6
11	Quantum Chemistry & Spectroscopy	Employability and Skill	6
12	Quantum Chemistry & Spectroscopy	Employability and Skill	6
13 14	Organometallic chemistry Spectroscopy	Employability and Skill	6



Annexure-II

	M.Sc Progra	ım	
1	Advanced characterization techniques	Skill	4
2	Synthesis and application of nano composites	Employability and Skill	4
3	Synthesis routes of nanomaterials	Employability and Skill	4
4	Computational materials science	Employability and Skill	4
5	Industrial chemicals	Employability and Skill	4
6	Pharmcognosy and phytochemistry	Employability	4
7	Polymer chemistry	Employability and Skill	4
8	Packaging	Employability and Skill	4
9	Industrial pollution and its waste management	Employability and Skill	4
10	Toxicology	Employability and Skill	4
10	Biopolymer and hydrogel	Employability and Skill	4
12	Nano-pharmaceuticals and biomedical science	Employability and Skill	4
13	Synthetic organic chemistry	Employability and Skill	4
14	Energy storage system	Employability	4
15	Sustainable chemistry	Employability and Skill	4
16	Analytical techniques	Employability and Skill	4



Annexure-III

SI.No.	Domain List	Credit	Category	Year of Introduction
1	Advance Video Processing, Computer Vision and Machine Learning	30	A/B/D	2020
2	Aerial Survey and Remote Sensing Applications	18	A/B	2020
3	Agri Business Management	23	A/B/D	2020
4	Architectural and Structural Design	20	A/B	2020
5	Business Analytics	21	A/B/D	2020
6	Chip Design and Fabrication using VLSI	18	В	2020
7	Commodity and Food Storage	29	A/B/D	2020
8	Communication Systems	18	В	2020
9	Composite Design and Manufacturing	24	A/B	2020
10	Computational Fluid Dynamics	20	A/B	2020
11	Cyber Security	24	В	2020
12	Dairy Processing and Development	28	A/B	2020
13	Fish Processing Technology	29	A/B	2020
14	Food Processing	29	A/B/D	2020
15	Gaming and Immersive Learning (AR & VR)	20	A/B/D	2020
16	Genetic Engineering & Genomics	29	А	2020
17	Go-To-Market	22	A/B/D	2020
18	Health Care Assistancy	25	A/B	2020
19	Intensive Aquaculture	29	A	2020
20	Manufacturing Execution System	18	В	2020
21	Nutraceuticals	29	A/C	2020
22	Organic Farming	29	A	2020
23	Protected Horticulture	29	A/B	2020
24	Renewable Energy Applications	22	A/B	2020
25	Seed Production using Manual and Molecular Methods	29	A	2020
26	Smart Agriculture	29	A/B	2020
27	Smart Farm Machinery	28	A/B	2020
28	Soil and Water Conservation through Watershed	28	A/B	2020



Annexure-IV

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.No.	kill courses approved by university in the AY 2020-21 List of Courses	Credit
	Introduction to Quantum Computing	4
	Organic Farming	4
	Mushroom Farming	4
	Hydroponics Technology	4
	Poultry Farming	4
-	Dairy Farming	4
	Vermicomposting Farming	4
	Transformer Manufacturing, Repairing and Maintenance	4
	Electrical Installation	4
0	Repair and Maintenance of Home Appliances	4
0	Refrigeration and air conditioning	4
2	Super critical CO2 plant operation	4
3	Business Plan Preparation	4
	Composite fabrication practice	4
14 15	Powder coating practice	4
15	Farm appliances operation	4
17	Bio fertilizers preparation	4
18	PCB designing & fabrication	4
19	Introduction to Block Chain Technology	4
20	Introduction to Nutraceuticals	4
20	Introduction to NLP	4
21	Introduction to Computational Biology	4
22	Product Life Cycle Management through Gate process	4
San Shi	New material development with Biovia	4
24 25	Spectral image processing using Python	4
26	Satellite data processing	4
-	Working with Graphene and carbon fibre	4
27	Adobe Tools and Illustrations	4
28 29	Digital Painting	4
30	Computer Installation and Maintenance	4



Annexure-V

List of value added courses approved by university in the AY 2020-21

SI. No.	List of Courses	Duration of course
1	Natural Resource Management	30 Hours
2	Research Methodology and IPR	30 Hours
3	Urban Gardens using Hydroponics	30 Hours
4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organic Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	30 Hours
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
15	Financial Literacy	30 Hours
16	Yoga and Meditation	30 Hours
17	Steps for Career Plan	30 Hours
18	MS Excel Basics	30 Hours
19	Quality Analysis	30 Hours
20	Ethical Writing Practice	30 Hours
21	Ansys	30 Hours
22	Video Making for Youtubers	30 Hours



School of Applied Sciences

Department of Chemistry

Time: 2.30 pm

Date: 11.07.2020

Venue: Online mode Through ZOOM link

Board of Studies Meeting

Attendance Sheet

SI. No.	Name	Designation with Organization	Signature
1.	Dr. Kishore Sarkar	Head of the Department, Gene Therapy and Tissue Engineering Lab, Department of Polymer Science and Technology, Kolkata- 700009	Attended Online
2.	Dr. J. K. Rath	Director, Mechem Private Limited	Attended Online
3.	Prof. Dipankar Bhattacharyay	Dean – SoAS, Centurion University of Technology and Management	Attended Online
4.	Prof. Mohammed Siddique	Associate Dean- SoAS, Centurion University of Technology and Management	Attended Online
5.	Prof. Susanta Kumar Biswal	Professor in Chemistry, SoAS, Centurion University of Technology and Management	Attended Online
6.	Dr. Atia Arzoo	HoD- Dept of Chemistry- SoAS, Centurion University of Technology and Management	Attended Online
7.	Sonali Sasmal	M. Sc. Alumni student Centurion University of Technology and Management	Attended Online
8.	Supriya Rath	M. Sc. Alumni student Centurion University of Technology and Management	Attended Online
9.	Tanvi Tanisha Panda	B. Sc. Alumni student Centurion University of Technology and Management	Attended Online
10.	Piyali Deb	B. Sc. Existing student Centurion University of Technology and Management	Attended Online
11.	Renukanta Naik	B. Sc. Existing student Centurion University of Technology and Management	Attended Online
12.	Satyajit Pradhan	M. Sc. Existing student Centurion University of Technology and Management	Attended Online
13.	Somia Rani Patel	M. Sc. Existing student Centurion University of Technology and Management	Attended Online

scher 0 Dean, Academics

Dean - Academic



School of Applied Sciences

Department of Mathematics

Date: 11.07. 2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Venue: Online Mode

Time: 2.30 p.m.

The Board of Studies (BoS) meeting of Department of Mathematics was held on 11.07.2020 at 2.30 p.m. in the Board Room, CUTM Bhubaneswar. The following members were present:

- 1. Prof. Mritunjay Kumar Singh.Professor, Department of Mathematics and Computing & Dean, IIT(ISM) Dhanbad, Jharkhanda.
- 2. Prof. Dipankar Bhattacharyay, Dean, , SoAS, CUTM
- 3. Prof. Mohammed Siddique, Associate Dean, SoAS, CUTM
- 4. Dr Ashok Misra, Professor & Head, Centre for Fluid Dynamics, CUTM
- 5. Dr Tumbanath Samantara, HoD, Department of Mathematics.Bhubaneswar Campus, CUTM

The Chairperson welcomed all members and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Mathematics presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1:Discussion and approval of the Curriculum of B.Sc. and M.Sc Mathematics.

- The HoD, Mathematics . gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this . the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2020-21.
- The syllabus of 1st to 6th semester of B. Sc, & 1st to 4th semester M.Sc Mathematics was considered and approved by the Board.
- The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component. (Annexure-1)
- Courses that can be executed in Practice mode were placed for approval to be reconfigured to Theory + Practice, Theory + Project and Project + Practice.
- The Board reviewed the syllabus of Mathematics for foundation course of B.Tech and approved the changes.



The HoD, Department of Mathematics. extended sincere thanks to all members of the Board. The meeting ended with a voteof thanks to the Chair.

HoD, Mathematics

HOD Department of Mathematics School of Applied Sciences Centurion University of Technology & Management Bhobaneswar, Odisha

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Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



Annexure:1

B.Sc (Mathematics)

SI. No	Course Title	Type(Skill/Employabil ity/Entrepreneurship/hi gher studies/Industry)	Credit
1	Calculus	Skill	6
2	Linear Algebra	Skill	6
3	Analysis-I	Higher Study	6
4	Ordinary Differential Equations	Higher Study	6
5	Analysis-II	Higher Study	6
6	Modern Algebra	Higher Study	6
7	Partial Differential Equations and System of Ordinary Differential Equation	Skill	6
8	Numerical Analysis	Skill	6
9	Advanced Analysis	Higher Study	6
10	Complex Analysis	Higher Study	6
11	Integral Transformations	Higher Study	6
12	Discrete Mathematical Structure	Skill	6
13	Linear Programming	Skill	6
14	Probability and Statistics	Skill	6

M.Sc (Mathematics)

SI. No	Course Title	Type(Skill/Employability /Entrepreneurship/higher studies/Industry)	Credit
1	Heat and Mass Transfer	Skill	4
2	Numerical Methods for CFD	Skill	4
3	Fluid Dynamics	Skill	4
4	Geometry and Grid Generation	Employbility	4
5	Applications of CFD using Computational Tool-Simulia	Employbility	4
6	Advanced differential equations	Skill	4
7	Graph Theory	Skill	4
8	Optimization techniques	Skill	4
9	Advanced Statistical Methods	Skill	4
10	Applied Number Theory	Skill	4
11	Advanced complex analysis	Higher Study	4
12	Topology	Higher Study	4
13	Differential Geometry	Higher Study	4
14	Advanced Algebra	Higher Study	4
15	Data Analysis and Visualizations using Python	Employbility	4
16	Machine Learning using Python	Employbility	4



School of Applied Sciences

Department of Mathematics

Time: 2.30 p.m.

Venue: On-line Mode, CUTM, Bhubaneswar

Date: 11.07.2020

Board of Studies Meeting

Attendance Sheet

List of Members present

SI. No.	Name	Organisation	Signature
1.	Prof. Mritunjay Kumar Singh Professor, Department of Mathematics and Computing & Dean (Students Welfare)	IIT(ISM) Dhanbad Dhanbad-826004, Jharkhand, India	Online mode
2.	Prof. Dipankar Bhattacharyay	Dean – SoAS, Centurion University of Technology and Management	Online mode
3.	Prof. Mohammed Siddique	Associate Dean- SoAS, Centurion University of Technology and Management	Online mode
4.	Dr Ashok Mishra	Professor & Head, Centre for Fluid Dynamics Centurion University of Technology and Management	Online mode
5.	Abhilas Tripathy,	Lecturer Alumni of M.Sc (Mathematics) Program	Online mode
6.	Harapriya Patri Systems Engineer Alumni of M.Sc (Mathematics) Program	Infosys Itd Alumni of M.Sc (Mathematics) Program	Online mode
7.	Priyanka Karan	Student of M.Sc (Mathematics) Program	Online mode
8.	Snigdhamayee Naik	Student of M.Sc (Mathematics) Program	Online mode
9.	Ayushi Sing	Alumni of B.Sc (Mathematics) Program	Online mode
10.	Ashwini Kumar Mahanta	Alumni of B.Sc (Mathematics) Program	Online mode



11.	Sonali Meher	Student of B.Sc (Mathematics) Program	Online mode
12.	Smitapragyan Sahoo	Student of B.Sc (Mathematics) Program	Online mode
13.	Chinmayee Hota	B.Tech Student	Online mode
14.	Swarnava Bhattacharya	B.Tech Student	Online mode
15.	Debasnan Singh	B.Tech Student(Alumni)	Online mode
16.	Dr Tumbanath Samantara,	Associate Professor & HoD Dept.of Mathematics, Bhubaneswar Campus, CUTM ,Odisha	Online mode

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Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050

School of Applied Sciences

Department of Botany

Date: 11.07.2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Time: 2.30 p.m.

Virtual Mode

The Board of Studies (BoS) meeting of Department of Botany was held on 11.07.2020 at 2.30 p.m. in virtual mode due to lock down for ongoing COVID 19. The following members were present:

- 1. Dr Sangram Lenka (External expert)
- 2. Dr Sabuj Sahoo (External expert)
- 3. Dean, SoAS, CUTM, Bhubaneswar (Member)
- 4. Prof. Mohammed Siddique, Assoc. Dean, SoAS, CUTM, Bhubaneswar (Member)
- 5. Dr. Rukmini Mishra, Head, Dept. of Botany, SoAS, CUTM (Member)

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Botany presented the achievements and improvements of the department in the areas of academics, research and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 30th July, 2019 were confirmed.

Agenda 2: Discussion and introduction of Curriculum of B.Sc. and M.Sc. (Botany) with new codes to be approved (Annexure I).

• The HoD, Botany gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved the courses with new codes for B.Sc. programme and inclusion of new courses in M.Sc. Botany to be implemented from the Academic Year 2020-21. (Annexure I)



Agenda 3: Inclusion of Domain courses

• New 22 domain course are finalized by the University based on the industry and academic requirements and approved by Board. These courses to be implemented from the academic year 2020-2021. Group A C category is for Botany students. (Annexure II)

Agenda 4: Inclusion of Skill and Value added courses

 New 30 skill courses and 22 value added course are finalized by the University and approved by Board, These courses to be implemented from the academic year 2020-2021 for both B.Sc. and M.Sc. students. (Annexure III)

The HoD, Department of Botany extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

HoD, Botany

H O.D Department of Botany School of Spatial Sciences CENTURION UNITED TO TECHNOLOGY & NANA HIVENT Bhi Dane-way Dirisba

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Annexure I B.Sc. Core Courses (CC)

SI. No.	Code	Subject Name	Type of course	T-P-Pr (Credit)	Credits
1.	CUTM1455	Phycology and Microbiology	Theory + Practice	4-2-0	6
2.	CUTM1456	Biomolecules & Cell biology	Theory + Practice	4-2-0	6
3.	CUTM1457	Mycology & Phytopathology	Theory + Practice	4-2-0	6
4.	CUTM1458	Archegoniate	Theory + Practice	4-2-0	6
5.	CUTM1459	Anatomy of Angiosperms	Theory + Practice	4-2-0	6
6.	CUTM1460	Economic Botany	Theory + Practice	4-2-0	6
7.	CUTM1461	Basics of Genetics	Theory + Practice	4-2-0	6
8.	CUTM1462	Molecular Biology	Theory + Practice	4-2-0	6
9.	CUTM1463	Plant Ecology and Phytogeography	Theory + Practice	4-2-0	6
10.	CUTM1464	Plant Systematics	Theory + Practice	4-2-0	6
11.	CUTM1465	Reproductive Biology of Angiosperm	Theory + Practice	4-2-0	6
12.	CUTM1466	Plant Physiology	Theory + Practice	4-2-0	6
13.	CUTM1467	Plant Metabolism	Theory + Practice	4-2-0	6
14.	CUTM1468	Plant Biotechnology	Theory + Practice	4-2-0	6
		Total			84

M.Sc. Core Courses (CC)

SI. No.	Code	Subject Name	T-P-P	Credits
1.	CUTM1416	Pharmcognosy and phytochemistry	3-1-0	04
2.	CUTM1427	Herbal Cosmetic Technology	3-0-1	04
3.	CUTM 1428	Plant Physiology and Metabolism	3-1-0	04
4.	CUTM 1429	Good Manufacturing Practices-Herbal Industry	3-1-0	04
5.	CUTM 1430	Developmental Biology and Phytotomy	3-1-0	04
6.	CUTM 1431	Systematics and Diversity of Plants	3-1-0	04
7.	CUTM 1432	Advanced Separation Technologies and Downstream Processing	2-2-0	04
8.	CUTM 1433	Biochemistry and Enzyme Technology	3-1-()	04
9.	CUTM 1434	Advances In Plant Ecology	3-1-0	()4
10.	CUTM 1435	Computational Biology	3-1-0	04
11.	CUTM 1436	Microbiology	3-1-0	04
12.	CUTM 1437	Cell and Molecular Biology	3-1-0	04
13.	CUTM 1438	Bioanalytical Techniques	3-1-0	04
14.	CUTM 1439	Plant Biotechnology	3-1-0	04
15.	CUTM 1440	Plant Breeding and Genetics	3-1-0	04
16.	CUTM 1441	Plant Genomics	3-1-0	64
		Basket II (DomainCourses)		32
100-00-00		Total		96

Centurion University of Technology & Management



Annexure II

Domain Courses offered by the University in 2020-21

	Group A: Agriculture/ Agri Engineeri sciences	ng/Phyto ph	arma/ Dairy tech/	fisheries/ biological		
	Group B: All other engineering/physical and mathematical science/vocational or skills Group C: Pharmacy and allied Health					
	Group D: Management & media and c	ommunicati	on			
SL No.	Name of the Domain	Credit	Category	Year of introduction		
1	Advance Video Processing, Computer Vision and Machine Learning	30	A/B/D	2020		
2	Aerial Survey and Remote Sensing Applications	18	A/B	2020		
3	Agri Business Management	23	A/B/D	2020		
4	Architectural and Structural Design	20	A/B	2020		
5	Business Analytics	21	A/B/D	2020		
6	Composite Design and Manufacturing	24	A/B	2020		
7	Computational Fluid Dynamics	20	A/B	2020		
8	Commodity and Food Storage	29	A/B/D	2020		
9	Gaming and Immersive Learning (AR & VR)	20	A/B/D	2020		
10	Genetic Engineering & Genomics	29	A	2020		
11	Go-To-Market	22	A/B/D	2020		
12	Health Care Assistancy	25	A/B	2020		
13	Intensive Aquaculture	29	A	2020		
15	Nutraceuticals	29	A/C	2020		
16	Organic Farming	29	А	2020		
17	Protected Horticulture	22	A/B	2020		
18	Renewable Energy Applications	29	A/B	2020		
19	Seed Production using Manual and Molecular Methods	29	A	2020		
20	Smart Agriculture	28	A/B	2020		
21	Smart Farm Machinery	28	A/B	2020		
22	Soil and Water Conservation through Watershed	29	A/C	2020		



Annexure III

Skill Courses offered by the University in 2020-21

SI. No.	Course Title	Credit	
1	Introduction to Quantum Computing	4	
2	Organic Farming	, 4	
3	Mushroom Farming	. 4	
4	Hydroponics Technology	4	
5	Poultry Farming	4	
6	Dairy Farming	4	
7	Vermicomposting Farming	4	
8	Transformer Manufacturing, Repairing and Maintenance	4	
9	Electrical Installation	4	
10	Repair and Maintenance of Home Appliances	4	
11	Refrigeration and air conditioning	4	
12	Super critical Co2 plant operation	4	
13	Business Plan Preparation	4	
14	Composite fabrication practice	4	
15	Powder coating practice		
16	Farm appliances operation	4	
17	Bio fertilisers preparation	+	
18	PCB designing & fabrication	.4	
19	Introduction to Block Chain Technology	4	
20	Introduction to Nutraceuticals	4	
21	Introduction to NLP	4	
22	Introduction to Computational Biology	4	
23	Product Life Cycle Management through Gate process	4	
24	New material development with Biovia	4	
25	Spectral image processing using Python	4	
26	Satellite data processing	4	
27	Working with Graphene and carbon fibre	4	
28	Adobe Tools and Illustrations 4		
29	Digital Painting	4	
30	Computer Installation and Maintenance	4	



Value added Courses offered by the University in 2020-21

SI. No.	List of Courses	Duration of course
1	Natural Resource Management	30 Hours
2	Research Methodology and IPR	30 Hours
3	Urban Gardens using Hydroponics	30 Hours
4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organie Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	30 Hours
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
15	Financial Literacy	30 Hours
16	Yoga and Meditation	30 Hours
17	Steps for Career Plan	30 Hours
18	MS Excel Basics	30 Hours
19	Quality Analysis	30 Hours
20	Ethical Writing Practice	30 Hours
21	Ansys.	30 Hours
22	Video Making for Youtubers	30 Hours



School of Applied Sciences

Department of Botany

Time: 2.30 p.m.

Date: 11.07.2020

Virtual Mode

Board of Studies Meeting

Attendance Sheet

Sl. No.	Name of the BoS Member(Internal Faculty and External Resource)	Designation	Signature
1.	Dr Sangram Lenka (External expert)	TERI-Deakin Nano- biotechnology Centre, Haryana	Attended Online
2.	Dr Sabuj Sahoo (External expert)	Associate Professor and Deputy Registrar, Department of Biotechnology, Utkal University, BBSR	Attended Online
3.	Prof. Dipankar Bhattacharyay (Member)	Dean, SoAS, Centurion University of Technology and Management	Attended Online
4.	Prof. Mohammed Siddique (Member)	Associate Dean-SoAS. Centurion University of Technology and Management	Attended Online
5.	Dr. Rukmini Mishra (Member)	Head, Department of Botany. CUTM,BBSR.	Attended Online

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Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050



School of Applied Sciences

Department of Zoology

Date: 11. 07.2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Virtual Mode

Time: 2:30 pm.

The Board of Studies (BoS) meeting of Department of Zoology was held on 11th July 2020 at 2:30 p.m. in online mode due to ongoing Covid-19 Pandemic. The following members were present:

- 1. Dr. Siba Prasad Parida, HoD, Dept. of Zoology, SoAS, CUTM, Bhubaneswar
- 2. Dr. Sabuj Sahoo, Dept. of Biotechnology, Utkal University, Bhubaneswar
- 3. Dr. Mohammad Siddique, Associate Dean, Centurion University of Technology and Management

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Zoology presented the achievements and improvements of the department in the areas of academics, research and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 30th July 2019 were confirmed.

Agenda 2: Inclusion of new courses in the curriculum of B.Sc. and M.Sc. Zoology (Hons.) syllabus

- The HoD, of dept. of Zoology gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for the courses and programme to be implemented from the Academic Year 2019-20.
- The syllabus of B. Sc. Zoology (Hons) (CBCS) pattern was revised with new codes and prepared as per UGC guidelines. New courses were introduced in M. Sc. Zoology syllabus and approved by the board. Emphasis was given on course related to fish culture and management in the syllabus of M.Sc. Zoology programme for their overall improvement and well-being were approved by the Board members. (Annexure I)

Board of Studies Meeting



Agenda 3: Discussion and incorporation of new Domain courses by the University

Inclusion of new Domain courses by the University for both B.Sc. Zoology (Hons.) • and M.Sc. Zoology programme for their overall improvement and well-being were approved by the Board members. (Annexure-II)

Agenda 4: Discussion and incorporation of new Skills courses by the University

• Inclusion of new skill courses offered by the University for both B.Sc. Zoology (Hons.) and M.Sc. Zoology programme and approved by the Board members. (Annexure-III)

The HoD, Department of extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

HoD, Zoology

HO.D DEAN Department of Zoology School of Applied Sciences School of Applied Sciences Bhubaneswar, Khurda, Odisha-752050 CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT Bhubaneswar,Odisha Bhubanoswar Odisha

Dean. SoAS

Dean, Academics Dean - Academic Centurion University of Technology & Management

Centurion University of Technology & Managam



Annexure I B.Sc. Core Courses (CC)

Sl. No.	Code	Subject Name	Type of course	T-P-Pr (Credit)	Credits
1.	CUTM1497	Non-Chordates I	Theory + Practice	3-1-2	6
2.	CUTM1499	Principles of Ecology	Theory + Practice	3-1-2	6
3.	CUTM1498	Non-Chordates II	Theory + Practice	3-1-2	6
. 4.	CUTM1500	Cell Biology	Theory + Practice	3-1-2	6
5.	CUTM1501	Diversity of Chordates	Theory + Practice	3-1-2	6
6.	CUTM1502	Physiology: Controlling and Coordinating Systems	Theory + Practice	3-1-2	6
7.	CUTM1503	Fundamentals of Biochemistry	Theory + Practice	3-1-2	6
8.	CUTM1504	Comparative Anatomy of Vertebrates	Theory + Practice	3-1-2	6
9.	CUTM1505	Physiology: Life Sustaining Systems	Theory + Practice	3-1-2	6
10.	CUTM1506	Biochemistry of Metabolic Processes	Theory + Practice	3-1-2	6
11.	CUTM1507	Molecular Biology	Theory + Practice	3-1-2	6
12.	CUTM1510	Evolutionary Biology	Theory + Practice	3-1-2	6
13.	CUTM1509	Developmental Biology	Theory + Practice	3-1-2	6
14.	CUTM1508	Principle of Genetics	Theory + Practice	3-1-2	6
		Total			84

M. Sc. Zoology Syllabus (1st to 4th semester) Course Structure-2020

Sl. No.	Code	Subject Name	T-T-P	Credit
1.	CUTM1437	Cell and Molecular Biology	3-1-0	4
2.	CUTM1443	Water and Soil Quality Management in Aquaculture	3-1-0	4
3.	CUTM1437	Genetics and Epigenetics	3-1-0	4
4.	CUTM1446	Anatomy and Biology of Fish and shellfish	3-1-0	4
5.	CUTM1451	Bioanalytical Techniques	3-1-0	4
6.	CUTM1451	Immunology and Cancer Biology	3-1-0	4
7.	CUTM1436	Microbiology	3-1-0	4
8.	CUTM1448	Fish Processing and Value Addition	3-1-0	4
9.	CUTM1452	Animal Biotechnology	3-1-0	4
10.	CUTM1452	Animal Breeding	3-1-0	4
11.	CUTM1450	Animal Physiology and Biochemistry	3-1-0	4
12.	CUTM1444	Fish and Shell fish Nutrition	3-1-0	4
13.	CUTM1442	Advanced Aquaculture	3-1-0	4
14.	CUTM1447	Coastal Aquaculture	3-1-0	4
15.	CUTM1445	Fish and Shellfish Health Management	3-1-0	4
16.	CUTM1449	Ornamental Aquaculture	3-1-0	4
		Basket II (Domain Courses)		32
		Total		96

Centurion University of Technology & Management

Board of Studies Meeting



Annexure II

Domain Courses offered by the University in 2020-21

	Group A: Agriculture/ Agri Engineering/Phyto pharma/ Dairy tech/ fisheries/ biological sciences					
	Group B: All other engineering/physical and mathematical science/vocational or skills					
	Group C: Pharmacy and allied Health	-				
	Group D: Management & media and com	nmunicat	ion			
Sl. No.	Name of the Domain	Credit		Year of introduction		
1	Advance Video Processing, Computer Vision and Machine Learning	50	A/B/D	2020		
2	Aerial Survey and Remote Sensing Applications	18	A/B	2020		
3	Agri Business Management	23	A/B/D	2020		
4	Architectural and Structural Design	20	A/B	2020		
5	Business Analytics	21	A/B/D	2020		
6	Composite Design and Manufacturing	24	A/B	2020		
7	Computational Fluid Dynamics	20	A/B	2020		
8	Commodity and Food Storage	29	A/B/D	2020		
9	Gaming and Immersive Learning (AR & VR)	20	A/B/D	2020		
10	Genetic Engineering & Genomics	29	A	2020		
11	Go-To-Market	22	A/B/D	2020		
12	Health Care Assistancy	25	A/B	2020		
13	Intensive Aquaculture	29	A	2020		
15	Nutraceuticals	29	A/C	2020		
16	Organic Farming	29	A	2020		
17	Protected Horticulture	22	A/B	2020		
18	Renewable Energy Applications	29	A/B	2020		
19	Seed Production using Manual and Molecular Methods	29	A	2020		
20	Smart Agriculture	28	A/B	2020		
21	Smart Farm Machinery	28	A/B	2020		
22	Soil and Water Conservation through Watershed	29	A/C	2020		



Annexure III

Skill Courses offered by the University in 2020-21

Sl. No.	Course Title	Credit
1	Introduction to Quantum Computing	4
2	Organic Farming	4
3	Mushroom Farming	4
4	Hydroponics Technology	4
5	Poultry Farming	4
6	Dairy Farming	4
7	Vermicomposting Farming	4
8	Transformer Manufacturing, Repairing and Maintenance	4
9	Electrical Installation	4
10	Repair and Maintenance of Home Appliances	4
11	Refrigeration and air conditioning	4
12	Super critical Co2 plant operation	4
13	Business Plan Preparation	4
14	Composite fabrication practice	4
15	Powder coating practice	
16	Farm appliances operation	4
17	Bio fertilisers preparation	4
18	PCB designing & fabrication	4
19	Introduction to Block Chain Technology	4
20	Introduction to Nutraceuticals	4
21	Introduction to NLP	4
22	Introduction to Computational Biology	4
23	Product Life Cycle Management through Gate process	4
24	New material development with Biovia	4
25	Spectral image processing using Python	4
26	Satellite data processing	4
27	Working with Graphene and carbon fibre	4
28	Adobe Tools and Illustrations	4
29	Digital Painting	4
30	Computer Installation and Maintenance	4



Sl. No.	List of Courses	Duration of course
1	Natural Resource Management	30 Hours
2	Research Methodology and IPR	30 Hours
3	Urban Gardens using Hydroponics	30 Hours
4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organic Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
15	Financial Literacy	30 Hours
16	Yoga and Meditation	30 Hours
		30 Hours
17	Steps for Career Plan	30 Hours
.8	MS Excel Basics	30 Hours
9	Quality Analysis	30 Hours
.0	Ethical Writing Practice	30 Hours
1	Ansys	30 Hours
2	Video Making for Youtubers	30 Hours

Value added Courses offered by the University in 2020-21



School of Applied Sciences

Department of Zoology

Time: 11.00 a.m.

Virtual Mode

Board of Studies Meeting

Attendance Sheet

SI. No.	Name	Organization	Signature
1.	Dr. Sabuj Sahoo	Utkal University	Attended Online
2.	Dr. Sangram Kumar Lenka	TERI – Deakin Nanobiotechnology Centre	Attended Online
3.	Dr. E.M. Chhanda Prajnadarsini	ICAR – CMFRI, Chennai	Attended Online
4.	Prof. Dipankar Bhattacharyay	Dean – SoAS, Centurion University of Technology and Management	Attended Online
5.	Prof. Mohammed Siddique	Associate Dean- SoAS, Centurion University of Technology and Management	Attended Online
6.	Prof. Yashaswi Nayak	HoD- Dept of Zoology- SoAS, Centurion University of Technology and Management	Attended Online

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Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050

Date: 11.07.2020



School of Applied Sciences

Department of BCA

Date: 12/07/2020

MINUTES OF BOARD OF STUDIES MEETING held on 12/07/2020

Virtual Mode

Time: 10.00 a.m.

The Board of Studies (BoS) meeting of Department of BCA was held on 11/07/2020 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the members:

1 Dr. Dipankar Bhattacharya Dean, SoAS PRO VC,CUTM 2 Dr. A.M Mohanty Dean Academic 3 Dr. P.K. Mohanty Dr. Sujata Chakraborty HoD, Computer Science 4 HoD, BCA 5 Dr.J.K.Meher Asst. Professor, BCA 6 Ms. Asharani Dalai Asst. Professor, BCA 7 Mr. Sanjib Naik Asst. Professor, BCA 8 Mrs. Prativa Satpathy Final year student 9 Mr. Gopinath Sahu

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of BCA presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 22/06/2019 were confirmed.

Agenda 2: Credits distributions, courses and baskets layouts, and new inclusions of Smart Basket (Basket-III) Interdisciplinary domains.

The HoD, BCA gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2020-21.

- The strategy of keeping at least twenty percent online delivery of courses in the curriculum was appreciated by everyone.
- It was suggested to have more MOUs with academia and industry for effective rollout.
- Everyone appreciated having the "Job Readiness" course of Basket-II as compulsory across branches and also the delivery plan of the course.
- List of new courses added in (Annexure A.)



- The briefing comprised of credits distributions, courses and baskets layouts, and new inclusions such as the Smart Basket (Basket-III) Interdisciplinary domains etc.
- The domain course should be taught in practice and project mode.

Agenda 4: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure B)

The HoD, Department of BCA. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Sayar

Dean, SoAS

Dean, Academics

HoD, BCA

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



Annexure-A

SI. No	Course Title	Type(Skill/Employability/ Entrepreneurship/Core)	Credit
1	Computer Aided Drafting	Skill and Employability	3
2	Product Design and Development	Skill and Employability	2
3	Reverse Engineering and Rapid Prototype	Skill and Employability	4
		Skill and Employability	2
5	Manufacturing Process- process planning and Heat Treatment	Skill and Employability	3
6	Material in product design and development	Skill and Employability	2
7	Computer Aided Engineering	Skill and Employability	3
8	Quality Assurance	Skill and Employability	2
9	Applied Ergonomics	Skill and Employability	2
	Computer Aided Manufacturing	Skill and Employability	2
11	CNC Programming & CNC Machining	Skill and Employability	2
12		Skill and Employability	3
13	Advance Metrology	Skill and Employability	2
14	Thermodynamics	Skill and Employability	3
15	Fluid Mechanics with Finite Volume Method	Skill and Employability	3
16	Hydraulic Machinery	Skill and Employability	2
	Theory of Machines	Skill and Employability	3
	Heat Transfer with FDM/FVM	Skill and Employability	3
19	Theories of Failure Using Finite Element Analysis	Skill and Employability	4
20	Optimization Techniques	Skill and Employability	2
21	Programming in Java (Same as Java Technologies)	Skill and Employability	3
22		Skill and Employability	3
23		Core	6
24	······································	Core	6
25		Core	6
26	Data Structures using C++	Core	6
20		Core	6



Annexure-B

List of Skill courses

Sl. No	Course Title	Credit	(T+P+P)
1	Introduction to Quantum Computing	4	0+3+1
2	Organic Farming	4	0+3+1
3	Mushroom Farming	4	0+3+1
4	Hydroponics Technology	4	0+3+1
5	Poultry Farming	4	0+3+1
6	Dairy Farming	4	0+3+1
7	Vermi composting Farming	4	0+3+1
8	Transformer Manufacturing, Repairing and Maintenance	4	0+3+1
9	Electrical Installation	4	0+3+1
10	Repair and Maintenance of Home Appliances	4	0+3+1
11	Refrigeration and air conditioning	4	0+3+1
12	Super critical Co2 plant operation	4	0+3+1
13	Business Plan Preparation	4	0+3+1
14	Composite fabrication practice	4	0+3+1
15	Powder coating practice	4	0+3+1
16	Farm appliances operation	4	0+3+1
17	Bio fertilizers preparation	4	0+3+1
18	PCB designing & fabrication	4	0+3+1
19	Introduction to Block Chain Technology	4	0+3+1
20	Introduction to Nutraceuticals	4	0+3+1
21	Introduction to NLP	4	0+3+1
22	Introduction to Computational Biology	4	0+3+1
23	Product Life Cycle Management through Gate process	4	0+3+1
24	New material development with Biovia	4	0+3+1
25	Spectral image processing using Python	4	0+3+1
26	Satellite data processing	4	0+3+1
27	Working with Graphene and carbon fibre	4	0+3+1
28	Adobe Tools and Illustrations	4	0+3+1
29	Digital Painting	4	0+3+1
30	Computer Installation and Maintenance	4	0+3+1



SI. No	Course Title	Hrs. of input	
1	Natural Resource Management	30	
2	Research Methodology and IPR	30	
3	Urban Gardens using Hydroponics	30	
4	Introduction to Python	30	
5	MATLAB	30	
6	Waste to Wealth	30	
7	Technical Writing	30	
8	Organic Farming	30	
9	Disaster Management	30	
10	Ethical Hacking	30	
11	Web Development	30	
12	Food & Nutrition	30	
13	Clinical Practice	30	
14	Innovation Management	30	
15	Financial Literacy	30	
16	Yoga and Meditation	30	
17	Steps for Career Plan	30	
18	MS Excel Basics	and the second	
19	Quality Analysis	30	
20	Ethical Writing Practice	30	
21	Ansys	30	
22	Video Making for Youtubers		



School of Applied Sciences

Department of BCA

Time: 10.00 a.m.

Date: 12/07/2020

Venue: Board Room, CUTM, Bhubaneswar

SI. No.	Name of the BOS Member(Internal Faculty and External Resource)	Designation	Signature
10	Dr. Sujata Chakraborty	HoD, Computer Science	Attended Online
11	Dr. A.M Mohanty	PRO VC,CUTM	Attended Online
12	Dr. P.K. Mohanty	Dean Academic	Attended Online
13	Dr. Dipankar Bhattacharya	Dean, SoAS	Attended Online
14	Dr.J.K.Meher	HoD, BCA	Attended Online
15	Ms. Asharani Dalai	Asst. Professor, BCA	Attended Online
16	Mr. Sanjib Naik	Asst. Professor, BCA	Attended Online
17	Mrs. Prativa Satpathy	Asst. Professor, BCA	Attended Online
18	Mr. Gopinath Sahu	Final year student	Attended Online

Board of Studies Meeting

Dean, SoAS

sara Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



School of Applied Sciences

Department of Physics

Date: 11.07.2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Venue: Conducted in online mode

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Physics was conducted in online mode on **11.07.2020** at 11 a.m. The following are the board members:

- Dr. P. K. Jain, Scientist -G, Center Head for Carbon materials division of ARCI, HYD, External expert
- 2. Dr. J K Rath, Director, Mechem Private Ltd, Bhubaneswar, External expert
- 3. Dr. Debadhyana Behera, Dept. of Physics, Ravenshaw University, External expert.
- 4. Prof. Dipankar Bhattacharyay, Dean SoAS.
- 5. Prof. Mohammed Siddique, Associate Dean- SoAS
- 6. Dr. Tapan Dash, HoD, Department of Physics, CUTM BBSR
- 7. Dr. Subrata Sarangi, Professor, Dept of Physics, UCTM, BBSR
- 8. Ms. Sushree Subhadarsi Bhole, MSc Alumni
- 9. Few M.Sc and B.Sc students of CUTM.

At the outset, Dean SoAS welcomed the invited (external) experts from industry and academia and addressed all the participants. HE outlined the broad contours of academic developments with respect to emerging research and skill integration areas and pointed out how the University has aligned its curricula keeping in view these developments. He also outlined how the University examination system is being reformed aligning it with the current trends and evolving methods of pedagogy and academic delivery. The steps being taken to execute all academic programs of the University in Covid-19 conditions were also pointed out by him.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 30.06.2019 were confirmed.

Agenda 2: Revision of Curriculum for the programme B.Sc. Physics and M.Sc. Physics.

• Based on the feedback received on curriculum outlining the suggestions made by the various stakeholders, it was suggested that the revised curriculum for B.Sc. and M.Sc. programmes is to be implemented from the academic year 2020-21.



- The detailed course outline and Syllabus of Department of Physics was presented by Prof. Mohammed Siddique, Associate Dean, SoAS.
- The external experts (industrial and academic) appreciated the general approach of the University dividing the curriculum into Core, Domain and Skill Courses and noted with satisfaction, the syllabi being upto-date and with due stress on practice and skill.
- They also noted with satisfaction that the syllabi of all BSc core courses was aligned to the UGC prescribed curriculum. It was also suggested that a BSc level, the foundation (or core) courses with basic concepts should be taught well including appropriate proportions of theory, practice, projects. Advanced topics like Graphene, Nano-materials, etc may be included as electives and at introductory level only.
- The experts also appreciated the advanced and focused nature of the MSc Core courses. Inclusion of advanced Materials Science topics such as Graphene, Composite Materials etc. was highly appreciated. Inclusion of Internship components into the MSc curriculum was also strongly suggested.
- The Board of study members recommended and approved the syllabus for both B.Sc. and M.Sc. programs (Annexure-1) to be taught in the upcoming semesters.

Agenda 3: : Regarding domain courses

 It was decided that students will take the domain courses offered by the University. Out of the different category of Domain courses Group B category is for Physics students. (Annexure-2)

Agenda 4: : Regarding skills and value added courses

It was suggested that students will take the skill and value added courses offered by the University. The same was approved by the Board members. (Annexure-3 &4)

The HoD, Department of Physics. extended his sincere thanks to all members of the Board.

The meeting was adjourned with Vote of Thanks by the Registrar Prof. Anita Patra. She thanked all the external members present in the meeting for sparing their valuable time from their busy schedule and make it successful.

Abour

Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050



Annexure-1

List of new courses approved

B.Sc. Physics

SI. No	Course Title	Type(Skill/Employability /Entrepreneurship	Credit
1	Mathematical Physics-I	Skill	6
2 .	Mechanics	Skill	6
3	Thermal Physics	Employability & Skill	6
4	Waves and Optics	Employability & Skill	6
5	Mathematical Physics-II	Skill	6
6	Electricity and Magnetism	Employability & Skill	6
7	Analog System and Application	Employability & Skill	6
8	Mathematical Physics-III	Skill	6
9	Elements of Modern Physics	Employability & Skill	6
10	Digital Systems and Applications	Employability & Skill	6
11	Quantum Mechanics and Applications	Employability & Skill	6
12	Solid State Physics	Employability & Skill	6
13	Electromagnetic Theory	Skill	6
14	Statistical Mechanics	Skill	6

M.Sc. Physics

SI. No	Course Title	Type(Skill/Employabilit y/Entrepreneurship	Credit
1	Energy storage materials	Employability	4
2	Bio and bimimetic nano materials	Employability	4
3	Photovoltaic technology and nanocatalysts	Employability	4
4	Advanced characterization techniques	Skill	4
5	Smart and electronic materials	Skill	4
6	Corrosion and advanced coating application	Employability	4
7	Synthesis and application of nano composites	Skill & Employability	4
8	Material behavior of nanostructures	Skill	4
9	Emerging materials	Employability	4
10	Synthesis routes of nanomaterials	Skill	4
11	Computational materials science	Skill	4
12	Plasma technology	Employability	4
13	Essentials of nanomaterials	Skill	4
14	Advanced quantum mechanics	Skill	4
15	Physics of solids and semiconductors	Skill	4
16	Laser technology	Skill	4



Annexure-2

Domain Courses approved by the University 2020-21.

	Group A: Agriculture/ Agri Engineering/Phyto pharma/ Dairy tech/ fisheries/ biological sciences					
	Group B: All other engineering/physical and mathe	matical scie	ence/vocatior	nal or skills		
	Group C: Pharmacy and allied Health			301.000 8 25 25 2		
	Group D: Management & media and communicatio	n				
SI. No.	Name of the Domain	Credit	Category	Year of introduction		
1	Advance Video Processing, Computer Vision and Machine Learning	30	A/B/D	2020		
2	Aerial Survey and Remote Sensing Applications	18	A/B	2020		
3	Agri Business Management	23	A/B/D	2020		
4	Architectural and Structural Design	20	A/B	2020		
5	Business Analytics	21	A/B/D	2020		
6	Chip Design and Fabrication using VLSI	18	В	2020		
7	Commodity and Food Storage	29	A/B/D	2020		
8	Communication Systems	18	В	2020		
9	Composite Design and Manufacturing	24	A/B	2020		
10	Computational Fluid Dynamics	20	A/B	2020		
11	Cyber Security	24	В	2020		
12	Dairy Processing and Development	28	A/B	2020		
13	Fish Processing Technology	29	A/B	2020		
14	Food Processing	29	A/B/D	2020		
15	Gaming and Immersive Learning (AR & VR)	20	A/B/D	2020		
16	Go-To-Market	22	A/B/D	2020		
17	Health Care Assistancy	25	A/B	2020		
18	Manufacturing Execution System	18	В	2020		
19	Nutraceuticals	29	A/C	2020		
20	Protected Horticulture	29	A/B	2020		
21	Renewable Energy Applications	22	A/B	2020		
22	Smart Agriculture	29	A/B	2020		
23	Smart Farm Machinery	28	A/B	2020		
24	Soil and Water Conservation through Watershed	28	A/B	2020		



Skill Courses approved by the university in 2020-21.

SI. No.	Course Title	Credit
1	Introduction to Quantum Computing	4
2	Organic Farming	4
3	Mushroom Farming	4
4	Hydroponics Technology	4
5	Poultry Farming	4
6	Dairy Farming	4
7	Vermicomposting Farming	4
8	Transformer Manufacturing, Repairing and Maintenance	4
9	Electrical Installation	4
10	Repair and Maintenance of Home Appliances	4
11	Refrigeration and air conditioning	4
12	Super critical CO ₂ plant operation	4
13	Business Plan Preparation	4
14	Composite fabrication practice	4
15	Powder coating practice	4
16	Farm appliances operation	4
17	Bio fertilizers preparation	4
18	PCB designing & fabrication	4
19	Introduction to Block Chain Technology	4
20	Introduction to Nutraceuticals	4
21	Introduction to NLP	4
22	Introduction to Computational Biology	4
23	Product Life Cycle Management through Gate process	4
24	New material development with Biovia	4
25	Spectral image processing using Python	4
26	Satellite data processing	4
27	Working with Graphene and carbon fibre	4
28	Adobe Tools and Illustrations	4
29	Digital Painting	4
30	Computer Installation and Maintenance	4

Annexure-4

Value Added courses offered by the university in 2020-21.

	Course Title	Credit
1	Natural Resource Management	30 Hours
2	Research Methodology and IPR	30 Hours
3	Urban Gardens using Hydroponics	30 Hours



4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organic Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	30 Hours
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
15	Financial Literacy	30 Hours
16	Yoga and Meditation	30 Hours
17	Steps for Career Plan	30 Hours
18	MS Excel Basics	30 Hours
19	Quality Analysis	30 Hours
20	Ethical Writing Practice	30 Hours
21	Ansys	30 Hours
22	Video Making for Youtubers	30 Hours

School of Applied Sciences Department of Physics

Date: 11.07.2020

Time: 11.00 a.m.

Venue: Conducted in online mode

Board of Studies Meeting Attendance Sheet

SI.	Name of the Member	Designation	Signature
No	I		



1	Dr. P. K. Jain	Scientist -G, Center Head for Carbon materials division of ARC1, HYD	Attended Online
2	Dr. J K Rath	Director, Mechem Private Ltd, Bhubaneswar	Attended Online
3	Dr. Debadhyana Behera	Dept. of Physics, Revenshaw University	Attended Online
4	Prof. Dipankar Bhattacharyay	Dean – SoAS, Centurion University of Technology and Management	Attended Online
5	Prof. Mohammed Siddique	Associate Dean- SoAS, Centurion University of Technology and Management	Attended Online
6	Dr. Tapan Dash	HoD- Dept of Physics- SoAS,Centurion University of Technology and Management	Attended Online
7	Dr. Subrata Sarangi	Professor, Dept of Physics- SoAS,Centurion University of Technology and Management	Attended Online
8	Sushree Subhadarsi Bhole	MSc Alumnus, Centurion University of Technology and Management	Attended Online
9	Sarita Nayak	MSc Alumnus, Centurion University of Technology and Management	Attended Online
10	Debabrata Mishra	MSc student (Continuing) Centurion University of Technology and Management	Attended Online
11	Nishikanta Mishra	MSc student (Continuing) Centurion University of Technology and Management	Attended Online
12	BapuramVenkateswar Samantaray	MSc student (Continuing) Centurion University of Technology and Management	Attended Online
13	Sulipta Das	MSc Alumnus, Centurion University of Technology and Management	Attended Online
14	Sanjay Kumar Harichandan	MSc Alumnus, Centurion University of Technology and Management	Attended Online
15	Priyabadini Biswal	MSc Alumnus, Centurion University of Technology and Management	Attended Online
16	Alisha Dalai	MSc Alumnus, Centurion University of Technology and Management	Attended Online
17	Monalisa B D Subham	BSc Alumnus, Centurion University of Technology and Management	Attended Online
18	Susmita Rani Pradhan	BSc Student (Continuing) Centurion University of Technology and Management	Attended Online
19	Jyotir Jagadananda Sahoo	BSc student (Continuing) Centurion University of Technology and Management	Attended Online
20	Sadia Masih	BSc Alumnus, Centurion University of Technology and Management	Attended Online
21	Saumya Sarthak Nayak	BSc Alumnus, Centurion University of Attended Online Technology and Management	
22	Ayush Kumar Sahu	BSc student (Continuing) Attended Online Centurion University of Technology and Management	
23	Soumya Sonali kar	BSc student (Continuing)	Attended Online



		Centurion University of Technology and Management	
24	Amit Kumar Pradhan	BSc student (Continuing) Centurion University of Technology and Management	Attended Online

Astron

Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



School of Applied Sciences Department of Chemistry

Date: 11.07.2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Venue: Online mode through Zoom Link

Time: 2.30 p.m.

The Board of Studies meeting was conducted in online mode due to ongoing Covid-19 Pandemic on 11th July 2020 at 2.30 pm. The following members were present:

- 1. Dr. Kishore Sarkar(Subject Expert, External Member)
- Dr. J. K. Rath(Industry Personel, External Member)
- Dr. J. K. Rath(Industry Poisoner, Entropy 2019)
 Prof. Dipankar Bhattacharyay (Dean, SoAS)CUTM, BBSR Campus
- Prof. Dipankar Briandenaryay (Dean, Curry, BBSR Campus
 Prof. Mohammed Siddique(Associate Dean), CUTM, BBSR Campus
- 5. Dr.Susanta Kumar Biswal
- 6. Dr.Atia Arzoo
- 7. Sonali Sasmal
- 8. Supriya Rath
- 9. Tanvi Tanisha Panda
- 10. Piyali Deb
- 11. Renukanta Naik
- 12. Satyajit Pradhan
- 13. Somia Rani Patel

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Chemistry presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 22.11.2019 were confirmed.

Agenda 2: Total Revision in the Curriculum of B.Sc (Hons.), M.Sc program, domain syllabus for B.Sc and M.Sc.

- At the outset Dean, SoAS addressed the participants and welcomed sharing key academic developments with respect to emerging research areas, online classes and examination
- The detailed course outline and Syllabus of Department of Chemistry was presented by Associate Dean, Prof. Mohammed Siddique.
- The HoD, Chemistry gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2019-20.



- With reference to the suggestions of the members present it was decided that more emphasis should be given to practice classes so that students will have more practical based approach in the proposed practices and research review can also be included in the practice sessions.
- The reference books and textbooks to be added that are more specific and advanced keeping an eye on the course curriculum, which would be suitable for the learners.
- Making students skilled with tomorrows research challenges it was decided to include at least two to three original research papers as reference.
- Flip classes and Seminars should be conducted to encourage students to present original research papers to discuss smart experiments.
- Beyond Academics Students should be encouraged to visit various research centers, industries to have a practical perspective towards the subject.
- The members went through the scheme and syllabus for new M. Sc. courses and commented to be well structured and sound enough to enrich students in acquiring skills required by students to pursue higher research, self employment and setting up of start ups.
- The Board of Study members recommended and approved the syllabus for both B. Sc.(Annexure-I) and M. Sc.(Annexure-II) Programs and domain subjects(Annexure-III) for both programs mentioned here to be taught in upcoming semesters.

Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills(Annexure-IV) and value addition (Annexure-V)for their overall improvement and well being. The same was agreed upon and approved by the Board members.

• The meeting ended with a Vote of Thanks by the Dean, SoAS.

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Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



Annexure-I

Sl. No	Course Title	Type(Skill/Employability/E ntrepreneurship	Credit
	B.Sc Progra	m	
1	Atomic Structure and Chemical bonding-I	Employabilityand Skill	6
2	States of matter and ionic equilibrium	Employability and Skill	6
23	Basics and Hydrocarbons	Employability and Skill	6
4	Chemical Thermodynamics and its application	Employability and Skill	6
5	S- and P-block elements	Employability and Skill	6
6	Oxygen Containing Functional Groups	Employability and Skill	6
ND 14	Phase Equilibria& Chemical Kinetics	Employability and Skill	6
7	Coordination Chemistry	Employability and Skill	6
8	Heterocyclic Chemistry	Employability and Skill	6
9	Electrochemistry	Employability and Skill	6
10	Bio-molecules	Employability and Skill	6
11	Quantum Chemistry & Spectroscopy	Employability and Skill	6
12	Quantum Chemistry & Spectroscopy	Employability and Skill	6
13 14	Organometallic chemistry Spectroscopy	Employability and Skill	6



Annexure-II

	M.Sc Progra	im	
1	Advanced characterization techniques	Skill	4
2	Synthesis and application of nano composites	Employability and Skill	4
3	Synthesis routes of nanomaterials	Employability and Skill	4
4	Computational materials science	Employability and Skill	4
5	Industrial chemicals	Employability and Skill	4
6	Pharmcognosy and phytochemistry	Employability	4
7	Polymer chemistry	Employability and Skill	4
8	Packaging	Employability and Skill	4
9	Industrial pollution and its waste management	Employability and Skill	4
10	Toxicology	Employability and Skill	4
10	Biopolymer and hydrogel	Employability and Skill	4
12	Nano-pharmaceuticals and biomedical science	Employability and Skill	4
13	Synthetic organic chemistry	Employability and Skill	4
14	Energy storage system	Employability	4
15	Sustainable chemistry	Employability and Skill	4
16	Analytical techniques	Employability and Skill	4



Annexure-III

SI.No.	Domain List	Credit	Category	Year of Introduction
1	Advance Video Processing, Computer Vision and Machine Learning	30	A/B/D	2020
2	Aerial Survey and Remote Sensing Applications	18	A/B	2020
3	Agri Business Management	23	A/B/D	2020
4	Architectural and Structural Design	20	A/B	2020
5	Business Analytics	21	A/B/D	2020
6	Chip Design and Fabrication using VLSI	18	В	2020
7	Commodity and Food Storage	29	A/B/D	2020
8	Communication Systems	18	В	2020
9	Composite Design and Manufacturing	24	A/B	2020
10	Computational Fluid Dynamics	20	A/B	2020
11	Cyber Security	24	В	2020
12	Dairy Processing and Development	28	A/B	2020
13	Fish Processing Technology	29	A/B	2020
14	Food Processing	29	A/B/D	2020
15	Gaming and Immersive Learning (AR & VR)	20	A/B/D	2020
16	Genetic Engineering & Genomics	29	А	2020
17	Go-To-Market	22	A/B/D	2020
18	Health Care Assistancy	25	A/B	2020
19	Intensive Aquaculture	29	A	2020
20	Manufacturing Execution System	18	В	2020
21	Nutraceuticals	29	A/C	2020
22	Organic Farming	29	A	2020
23	Protected Horticulture	29	A/B	2020
24	Renewable Energy Applications	22	A/B	2020
25	Seed Production using Manual and Molecular Methods	29	A	2020
26	Smart Agriculture	29	A/B	2020
27	Smart Farm Machinery	28	A/B	2020
28	Soil and Water Conservation through Watershed	28	A/B	2020



Annexure-IV

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.No.	kill courses approved by university in the AY 2020-21 List of Courses	Credit
	Introduction to Quantum Computing	4
	Organic Farming	4
	Mushroom Farming	4
	Hydroponics Technology	4
	Poultry Farming	4
-	Dairy Farming	4
	Vermicomposting Farming	4
	Transformer Manufacturing, Repairing and Maintenance	4
	Electrical Installation	4
0	Repair and Maintenance of Home Appliances	4
0	Refrigeration and air conditioning	4
2	Super critical CO2 plant operation	4
3	Business Plan Preparation	4
	Composite fabrication practice	4
14 15	Powder coating practice	4
15	Farm appliances operation	4
17	Bio fertilizers preparation	4
18	PCB designing & fabrication	4
19	Introduction to Block Chain Technology	4
20	Introduction to Nutraceuticals	4
20	Introduction to NLP	4
21	Introduction to Computational Biology	4
22	Product Life Cycle Management through Gate process	4
San Shi	New material development with Biovia	4
24 25	Spectral image processing using Python	4
26	Satellite data processing	4
20	Working with Graphene and carbon fibre	4
27	Adobe Tools and Illustrations	4
28	Digital Painting	4
30	Computer Installation and Maintenance	4



Annexure-V

List of value added courses approved by university in the AY 2020-21

SI. No.	List of Courses	Duration of course
1	Natural Resource Management	30 Hours
2	Research Methodology and IPR	30 Hours
3	Urban Gardens using Hydroponics	30 Hours
4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organic Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	30 Hours
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
15	Financial Literacy	30 Hours
16	Yoga and Meditation	30 Hours
17	Steps for Career Plan	30 Hours
18	MS Excel Basics	30 Hours
19	Quality Analysis	30 Hours
20	Ethical Writing Practice	30 Hours
21	Ansys	30 Hours
22	Video Making for Youtubers	30 Hours



School of Applied Sciences

Department of Chemistry

Time: 2.30 pm

Date: 11.07.2020

Venue: Online mode Through ZOOM link

Board of Studies Meeting

Attendance Sheet

SI. No.	Name	Designation with Organization	Signature
1.	Dr. Kishore Sarkar	Head of the Department, Gene Therapy and Tissue Engineering Lab, Department of Polymer Science and Technology, Kolkata- 700009	Attended Online
2.	Dr. J. K. Rath	Director, Mechem Private Limited	Attended Online
3.	Prof. Dipankar Bhattacharyay	Dean – SoAS, Centurion University of Technology and Management	Attended Online
4.	Prof. Mohammed Siddique	Associate Dean- SoAS, Centurion University of Technology and Management	Attended Online
5.	Prof. Susanta Kumar Biswal	Professor in Chemistry, SoAS, Centurion University of Technology and Management	Attended Online
6.	Dr. Atia Arzoo	HoD- Dept of Chemistry- SoAS, Centurion University of Technology and Management	Attended Online
7.	Sonali Sasmal	M. Sc. Alumni student Centurion University of Technology and Management	Attended Online
8.	Supriya Rath	M. Sc. Alumni student Centurion University of Technology and Management	Attended Online
9.	Tanvi Tanisha Panda	B. Sc. Alumni student Centurion University of Technology and Management	Attended Online
10.	Piyali Deb	B. Sc. Existing student Centurion University of Technology and Management	Attended Online
11.	Renukanta Naik	B. Sc. Existing student Centurion University of Technology and Management	Attended Online
12.	Satyajit Pradhan	M. Sc. Existing student Centurion University of Technology and Management	Attended Online
13.	Somia Rani Patel	M. Sc. Existing student Centurion University of Technology and Management	Attended Online

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Dean - Academic



School of Applied Sciences

Department of Mathematics

Date: 11.07. 2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Venue: Online Mode

Time: 2.30 p.m.

The Board of Studies (BoS) meeting of Department of Mathematics was held on 11.07.2020 at 2.30 p.m. in the Board Room, CUTM Bhubaneswar. The following members were present:

- 1. Prof. Mritunjay Kumar Singh.Professor, Department of Mathematics and Computing & Dean, IIT(ISM) Dhanbad,Jharkhanda.
- 2. Prof. Dipankar Bhattacharyay, Dean, , SoAS, CUTM
- 3. Prof. Mohammed Siddique, Associate Dean, SoAS, CUTM
- 4. Dr Ashok Misra, Professor & Head, Centre for Fluid Dynamics, CUTM
- 5. Dr Tumbanath Samantara, HoD, Department of Mathematics.Bhubaneswar Campus, CUTM

The Chairperson welcomed all members and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Mathematics presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1:Discussion and approval of the Curriculum of B.Sc. and M.Sc Mathematics.

- The HoD, Mathematics . gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this . the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2020-21.
- The syllabus of 1st to 6th semester of B. Sc, & 1st to 4th semester M.Sc Mathematics was considered and approved by the Board.
- The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component. (Annexure-1)
- Courses that can be executed in Practice mode were placed for approval to be reconfigured to Theory + Practice, Theory + Project and Project + Practice.
- The Board reviewed the syllabus of Mathematics for foundation course of B.Tech and approved the changes.



The HoD, Department of Mathematics. extended sincere thanks to all members of the Board. The meeting ended with a voteof thanks to the Chair.

HoD, Mathematics

HOD Department of Mathematics School of Applied Sciences Centurion University of Technology & Management Bhobaneswar, Odisha

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Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



Annexure:1

B.Sc (Mathematics)

SI. No	Course Title	Type(Skill/Employabil ity/Entrepreneurship/hi gher studies/Industry)	Credit
1	Calculus	Skill	6
2	Linear Algebra	Skill	6
3	Analysis-I	Higher Study	6
4	Ordinary Differential Equations	Higher Study	6
5	Analysis-II	Higher Study	6
6	Modern Algebra	Higher Study	6
7	Partial Differential Equations and System of Ordinary Differential Equation	Skill	6
8	Numerical Analysis	Skill	6
9	Advanced Analysis	Higher Study	6
10	Complex Analysis	Higher Study	6
11	Integral Transformations	Higher Study	6
12	Discrete Mathematical Structure	Skill	6
13	Linear Programming	Skill	6
14	Probability and Statistics	Skill	6

M.Sc (Mathematics)

SI. No	Course Title	Type(Skill/Employability /Entrepreneurship/higher studies/Industry)	Credit
1	Heat and Mass Transfer	Skill	4
2	Numerical Methods for CFD	Skill	4
3	Fluid Dynamics	Skill	4
4	Geometry and Grid Generation	Employbility	4
5	Applications of CFD using Computational Tool-Simulia	Employbility	4
6	Advanced differential equations	Skill	4
7	Graph Theory	Skill	4
8	Optimization techniques	Skill	4
9	Advanced Statistical Methods	Skill	4
10	Applied Number Theory	Skill	4
11	Advanced complex analysis	Higher Study	4
12	Topology	Higher Study	4
13	Differential Geometry	Higher Study	4
14	Advanced Algebra	Higher Study	4
15	Data Analysis and Visualizations using Python	Employbility	4
16	Machine Learning using Python	Employbility	4



School of Applied Sciences

Department of Mathematics

Time: 2.30 p.m.

Venue: On-line Mode, CUTM, Bhubaneswar

Date: 11.07.2020

Board of Studies Meeting

Attendance Sheet

List of Members present

SI. No.	Name	Organisation	Signature	
1.	Prof. Mritunjay Kumar Singh Professor, Department of Mathematics and Computing & Dean (Students Welfare)	IIT(ISM) Dhanbad Dhanbad-826004, Jharkhand, India	Online mode	
2.	Prof. Dipankar Bhattacharyay	Dean – SoAS, Centurion University of Technology and Management	Online mode	
3.	Prof. Mohammed Siddique	Mohammed Siddique Associate Dean- SoAS, Centurion University of Technology and Management		
4.	Dr Ashok Mishra	Professor & Head, Centre for Fluid Dynamics Centurion University of Technology and Management	Online mode	
5.	Abhilas Tripathy,	Lecturer Alumni of M.Sc (Mathematics) Program	Online mode	
6.	Harapriya Patri Systems Engineer Alumni of M.Sc (Mathematics) Program	Infosys Itd Alumni of M.Sc (Mathematics) Program	Online mode	
7.	Priyanka Karan	Student of M.Sc (Mathematics) Program	Online mode	
8.	Snigdhamayee Naik	Student of M.Sc (Mathematics) Program	Online mode	
9.	Ayushi Sing	Alumni of B.Sc (Mathematics) Program	Online mode	
10.	Ashwini Kumar Mahanta	Alumni of B.Sc (Mathematics) Program	Online mode	



11.	Sonali Meher	Student of B.Sc (Mathematics) Program	Online mode
12.	Smitapragyan Sahoo	Student of B.Sc (Mathematics) Program	Online mode
13.	Chinmayee Hota	B.Tech Student	Online mode
14.	Swarnava Bhattacharya	B.Tech Student	Online mode
15.	Debasnan Singh	B.Tech Student(Alumni)	Online mode
16.	Dr Tumbanath Samantara,	Associate Professor & HoD Dept.of Mathematics, Bhubaneswar Campus, CUTM ,Odisha	Online mode

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Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



School of Applied Sciences

Department of Botany

Date: 11.07.2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Time: 2.30 p.m.

Virtual Mode

The Board of Studies (BoS) meeting of Department of Botany was held on 11.07.2020 at 2.30 p.m. in virtual mode due to lock down for ongoing COVID 19. The following members were present:

- 1. Dr Sangram Lenka (External expert)
- 2. Dr Sabuj Sahoo (External expert)
- 3. Dean, SoAS, CUTM, Bhubaneswar (Member)
- 4. Prof. Mohammed Siddique, Assoc. Dean, SoAS, CUTM, Bhubaneswar (Member)
- 5. Dr. Rukmini Mishra, Head, Dept. of Botany, SoAS, CUTM (Member)

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Botany presented the achievements and improvements of the department in the areas of academics, research and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 30th July, 2019 were confirmed.

Agenda 2: Discussion and introduction of Curriculum of B.Sc. and M.Sc. (Botany) with new codes to be approved (Annexure I).

• The HoD, Botany gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved the courses with new codes for B.Sc. programme and inclusion of new courses in M.Sc. Botany to be implemented from the Academic Year 2020-21. (Annexure I)



Agenda 3: Inclusion of Domain courses

• New 22 domain course are finalized by the University based on the industry and academic requirements and approved by Board. These courses to be implemented from the academic year 2020-2021. Group A C category is for Botany students. (Annexure II)

Agenda 4: Inclusion of Skill and Value added courses

 New 30 skill courses and 22 value added course are finalized by the University and approved by Board, These courses to be implemented from the academic year 2020-2021 for both B.Sc. and M.Sc. students. (Annexure III)

The HoD, Department of Botany extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

HoD, Botany

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Annexure I B.Sc. Core Courses (CC)

SI. No.	Code	Subject Name	Type of course	T-P-Pr (Credit)	Credits
1.	CUTM1455	Phycology and Microbiology	Theory + Practice	4-2-0	6
2.	CUTM1456	Biomolecules & Cell biology	Theory + Practice	4-2-0	6
3.	CUTM1457	Mycology & Phytopathology	Theory + Practice	4-2-0	6
4.	CUTM1458	Archegoniate	Theory + Practice	4-2-0	6
5.	CUTM1459	Anatomy of Angiosperms	Theory + Practice	4-2-0	6
6.	CUTM1460	Economic Botany	Theory + Practice	4-2-0	6
7.	CUTM1461	Basics of Genetics	Theory + Practice	4-2-0	6
8.	CUTM1462	Molecular Biology	Theory + Practice	4-2-0	6
9.	CUTM1463	Plant Ecology and Phytogeography	Theory + Practice	4-2-0	6
10.	CUTM1464	Plant Systematics	Theory + Practice	4-2-0	6
11.	CUTM1465	Reproductive Biology of Angiosperm	Theory + Practice	4-2-0	6
12.	CUTM1466	Plant Physiology	Theory + Practice	4-2-0	6
13.	CUTM1467	Plant Metabolism	Theory + Practice	4-2-0	6
14.	CUTM1468	Plant Biotechnology	Theory + Practice	4-2-0	6
		Total			84

M.Sc. Core Courses (CC)

SI. No.	Code	Subject Name	T-P-P	Credits
1.	CUTM1416	Pharmcognosy and phytochemistry	3-1-0	04
2.	CUTM1427	Herbal Cosmetic Technology	3-0-1	04
3.	CUTM 1428	Plant Physiology and Metabolism	3-1-0	04
4.	CUTM 1429	Good Manufacturing Practices-Herbal Industry	3-1-0	04
5.	CUTM 1430	Developmental Biology and Phytotomy	3-1-0	04
6.	CUTM 1431	Systematics and Diversity of Plants	3-1-0	0.4
7.	CUTM 1432	Advanced Separation Technologies and Downstream Processing	2-2-0	04
8.	CUTM 1433	Biochemistry and Enzyme Technology	3-1-0	04
9.	CUTM 1434	Advances In Plant Ecology	3-1-0	04
10.	CUTM 1435	Computational Biology	3-1-0	04
11.	CUTM 1436	Microbiology	3-1-0	04
12.	CUTM 1437	Cell and Molecular Biology	3-1-0	04
13.	CUTM 1438	Bioanalytical Techniques	3-1-0	04
14.	CUTM 1439	Plant Biotechnology	3-1-0	04
15.	CUTM 1440	Plant Breeding and Genetics	3-1-0	04
16.	CUTM 1441	Plant Genomics	3-1-0	64
		Basket II (DomainCourses)		32
19-21-20		Total		96

Centurion University of Technology & Management



Annexure II

Domain Courses offered by the University in 2020-21

	Group A: Agriculture/ Agri Engineering/Phyto pharma/ Dairy tech/ fisheries/ biological sciences					
	Group B: All other engineering/physical and mathematical science/vocational or skills					
	Group C: Pharmacy and allied Health Group D: Management & media and communication					
SL No.	Name of the Domain	Credit	Category	Year of introduction		
1	Advance Video Processing, Computer Vision and Machine Learning	30	A/B/D	2020		
2	Aerial Survey and Remote Sensing Applications	18	A/B	2020		
3	Agri Business Management	23	A/B/D	2020		
4	Architectural and Structural Design	20	A/B	2020		
5	Business Analytics	21	A/B/D	2020		
6	Composite Design and Manufacturing	24	A/B	2020		
7	Computational Fluid Dynamics	20	A/B	2020		
8	Commodity and Food Storage	29	A/B/D	2020		
9	Gaming and Immersive Learning (AR & VR)	20	A/B/D	2020		
10	Genetic Engineering & Genomics	29	A	2020		
11	Go-To-Market	22	A/B/D	2020		
12	Health Care Assistancy	25	A/B	2020		
13	Intensive Aquaculture	29	A	2020		
15	Nutraceuticals	29	A/C	2020		
16	Organic Farming	29	А	2020		
17	Protected Horticulture	22	A/B	2020		
18	Renewable Energy Applications	29	A/B	2020		
19	Seed Production using Manual and Molecular Methods	29	A	2020		
20	Smart Agriculture	28	A/B	2020		
21	Smart Farm Machinery	28	A/B	2020		
22	Soil and Water Conservation through Watershed	29	A/C	2020		



Annexure III

Skill Courses offered by the University in 2020-21

SI. No.	Course Title	Credit
1	Introduction to Quantum Computing	4
2	Organic Farming	, 4
3	Mushroom Farming	. 4
4	Hydroponics Technology	4
5	Poultry Farming	4
6	Dairy Farming	4
7	Vermicomposting Farming	4
8	Transformer Manufacturing, Repairing and Maintenance	4
9	Electrical Installation	4
10	Repair and Maintenance of Home Appliances	4
11	Refrigeration and air conditioning	4
12	Super critical Co2 plant operation	4
13	Business Plan Preparation	4
14	Composite fabrication practice	4
15	Powder coating practice	
16	Farm appliances operation	4
17	Bio fertilisers preparation	+
18	PCB designing & fabrication	.4
19	Introduction to Block Chain Technology	4
20	Introduction to Nutraceuticals	4
21	Introduction to NLP	4
22	Introduction to Computational Biology	4
23	Product Life Cycle Management through Gate process	4
24	New material development with Biovia	4
25	Spectral image processing using Python	4
26	Satellite data processing	4
27	Working with Graphene and carbon fibre	4
28	Adobe Tools and Illustrations	4
29	Digital Painting	4
30	Computer Installation and Maintenance	4



Value added Courses offered by the University in 2020-21

SI. No.	List of Courses	Duration of course
1	Natural Resource Management	30 Hours
2	Research Methodology and IPR	30 Hours
3	Urban Gardens using Hydroponics	30 Hours
4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organie Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	30 Hours
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
15	Financial Literacy	30 Hours
16	Yoga and Meditation	30 Hours
17	Steps for Career Plan	30 Hours
18	MS Excel Basics	30 Hours
19	Quality Analysis	30 Hours
20	Ethical Writing Practice	30 Hours
21	Ansys.	30 Hours
22	Video Making for Youtubers	30 Hours



School of Applied Sciences

Department of Botany

Time: 2.30 p.m.

Date: 11.07.2020

Virtual Mode

Board of Studies Meeting

Attendance Sheet

Sl. No.	Name of the BoS Member(Internal Faculty and External Resource)	Designation	Signature
1.	Dr Sangram Lenka (External expert)	TERI-Deakin Nano- biotechnology Centre, Haryana	Attended Online
2.	Dr Sabuj Sahoo (External expert)	Associate Professor and Deputy Registrar, Department of Biotechnology, Utkal University, BBSR	Attended Online
3.	Prof. Dipankar Bhattacharyay (Member)	Dean, SoAS, Centurion University of Technology and Management	Attended Online
4.	Prof. Mohammed Siddique (Member)	Associate Dean-SoAS. Centurion University of Technology and Management	Attended Online
5.	Dr. Rukmini Mishra (Member)	Head, Department of Botany. CUTM,BBSR.	Attended Online

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Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050



School of Applied Sciences

Department of Zoology

Date: 11. 07.2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Virtual Mode

Time: 2:30 pm.

The Board of Studies (BoS) meeting of Department of Zoology was held on 11th July 2020 at 2:30 p.m. in online mode due to ongoing Covid-19 Pandemic. The following members were present:

- 1. Dr. Siba Prasad Parida, HoD, Dept. of Zoology, SoAS, CUTM, Bhubaneswar
- 2. Dr. Sabuj Sahoo, Dept. of Biotechnology, Utkal University, Bhubaneswar
- 3. Dr. Mohammad Siddique, Associate Dean, Centurion University of Technology and Management

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Zoology presented the achievements and improvements of the department in the areas of academics, research and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 30th July 2019 were confirmed.

Agenda 2: Inclusion of new courses in the curriculum of B.Sc. and M.Sc. Zoology (Hons.) syllabus

- The HoD, of dept. of Zoology gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for the courses and programme to be implemented from the Academic Year 2019-20.
- The syllabus of B. Sc. Zoology (Hons) (CBCS) pattern was revised with new codes and prepared as per UGC guidelines. New courses were introduced in M. Sc. Zoology syllabus and approved by the board. Emphasis was given on course related to fish culture and management in the syllabus of M.Sc. Zoology programme for their overall improvement and well-being were approved by the Board members. (Annexure I)

Board of Studies Meeting



Agenda 3: Discussion and incorporation of new Domain courses by the University

Inclusion of new Domain courses by the University for both B.Sc. Zoology (Hons.) • and M.Sc. Zoology programme for their overall improvement and well-being were approved by the Board members. (Annexure-II)

Agenda 4: Discussion and incorporation of new Skills courses by the University

• Inclusion of new skill courses offered by the University for both B.Sc. Zoology (Hons.) and M.Sc. Zoology programme and approved by the Board members. (Annexure-III)

The HoD, Department of extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

HoD, Zoology

HO.D DEAN Department of Zoology School of Applied Sciences School of Applied Sciences Bhubaneswar, Khurda, Odisha-752050 CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT Bhubaneswar,Odisha Bhubanoswar Odisha

Dean. SoAS

Dean, Academics Dean - Academic Centurion University of Technology & Management

Centurion University of Technology & Managam



Annexure I B.Sc. Core Courses (CC)

Sl. No.	Code	Subject Name	Type of course	T-P-Pr (Credit)	Credits
1.	CUTM1497	Non-Chordates I	Theory + Practice	3-1-2	6
2.	CUTM1499	Principles of Ecology	Theory + Practice	3-1-2	6
3.	CUTM1498	Non-Chordates II	Theory + Practice	3-1-2	6
. 4.	CUTM1500	Cell Biology	Theory + Practice	3-1-2	6
5.	CUTM1501	Diversity of Chordates	Theory + Practice	3-1-2	6
6.	CUTM1502	Physiology: Controlling and Coordinating Systems	Theory + Practice	3-1-2	6
7.	CUTM1503	Fundamentals of Biochemistry	Theory + Practice	3-1-2	6
8.	CUTM1504	Comparative Anatomy of Vertebrates	Theory + Practice	3-1-2	6
9.	CUTM1505	Physiology: Life Sustaining Systems	Theory + Practice	3-1-2	6
10.	CUTM1506	Biochemistry of Metabolic Processes	Theory + Practice	3-1-2	6
11.	CUTM1507	Molecular Biology	Theory + Practice	3-1-2	6
12.	CUTM1510	Evolutionary Biology	Theory + Practice	3-1-2	6
13.	CUTM1509	Developmental Biology	Theory + Practice	3-1-2	6
14.	CUTM1508	Principle of Genetics	Theory + Practice	3-1-2	6
		Total			84

M. Sc. Zoology Syllabus (1st to 4th semester) Course Structure-2020

SI. No.	Code	Subject Name	T-T-P	Credit
1.	CUTM1437	Cell and Molecular Biology	3-1-0	4
2.	CUTM1443	Water and Soil Quality Management in Aquaculture	3-1-0	4
3.	CUTM1437	Genetics and Epigenetics	3-1-0	4
4.	CUTM1446	Anatomy and Biology of Fish and shellfish	3-1-0	4
5.	CUTM1451	Bioanalytical Techniques	3-1-0	4
6.	CUTM1451	Immunology and Cancer Biology	3-1-0	4
7.	CUTM1436	Microbiology	3-1-0	4
8.	CUTM1448	Fish Processing and Value Addition	3-1-0	4
9.	CUTM1452	Animal Biotechnology	3-1-0	4
10.	CUTM1452	Animal Breeding	3-1-0	4
11.	CUTM1450	Animal Physiology and Biochemistry	3-1-0	4
12.	CUTM1444	Fish and Shell fish Nutrition	3-1-0	4
13.	CUTM1442	Advanced Aquaculture	3-1-0	4
14.	CUTM1447	Coastal Aquaculture	3-1-0	4
15.	CUTM1445	Fish and Shellfish Health Management	3-1-0	4
16.	CUTM1449	Ornamental Aquaculture	3-1-0	4
		Basket II (Domain Courses)		32
		Total		96

Centurion University of Technology & Management

Board of Studies Meeting



Annexure II

Domain Courses offered by the University in 2020-21

	biological sciences	Group A: Agriculture/ Agri Engineering/Phyto pharma/ Dairy tech/ fisher biological sciences				
	Group B: All other engineering/physical and mathematical science/vocational o skills					
	Group C: Pharmacy and allied Health	-				
	Group D: Management & media and com	nmunicat	ion			
Sl. No.	Name of the Domain	Credit		Year of introduction		
1	Advance Video Processing, Computer Vision and Machine Learning	50	A/B/D	2020		
2	Aerial Survey and Remote Sensing Applications	18	A/B	2020		
3	Agri Business Management	23	A/B/D	2020		
4	Architectural and Structural Design	20	A/B	2020		
5	Business Analytics	21	A/B/D	2020		
6	Composite Design and Manufacturing	24	A/B	2020		
7	Computational Fluid Dynamics	20	A/B	2020		
8	Commodity and Food Storage	29	A/B/D	2020		
9	Gaming and Immersive Learning (AR & VR)	20	A/B/D	2020		
10	Genetic Engineering & Genomics	29	A	2020		
11	Go-To-Market	22	A/B/D	2020		
12	Health Care Assistancy	25	A/B	2020		
13	Intensive Aquaculture	29	A	2020		
15	Nutraceuticals	29	A/C	2020		
16	Organic Farming	29	A	2020		
17	Protected Horticulture	22	A/B	2020		
18	Renewable Energy Applications	29	A/B	2020		
19	Seed Production using Manual and Molecular Methods	29	A	2020		
20	Smart Agriculture	28	A/B	2020		
21	Smart Farm Machinery	28	A/B	2020		
22	Soil and Water Conservation through Watershed	29	A/C	2020		



Annexure III

Skill Courses offered by the University in 2020-21

Sl. No.	Course Title	Credit
1	Introduction to Quantum Computing	4
2	Organic Farming	4
3	Mushroom Farming	4
4	Hydroponics Technology	4
5	Poultry Farming	4
6	Dairy Farming	4
7	Vermicomposting Farming	4
8	Transformer Manufacturing, Repairing and Maintenance	4
9	Electrical Installation	4
10	Repair and Maintenance of Home Appliances	4
11	Refrigeration and air conditioning	4
12	Super critical Co2 plant operation	4
13	Business Plan Preparation	4
14	Composite fabrication practice	4
15	Powder coating practice	
16	Farm appliances operation	4
17	Bio fertilisers preparation	4
18	PCB designing & fabrication	4
19	Introduction to Block Chain Technology	4
20	Introduction to Nutraceuticals	4
21	Introduction to NLP	4
22	Introduction to Computational Biology	4
23	Product Life Cycle Management through Gate process	4
24	New material development with Biovia	4
25	Spectral image processing using Python	4
26	Satellite data processing	4
27	Working with Graphene and carbon fibre	4
28	Adobe Tools and Illustrations	4
29	Digital Painting	4
30	Computer Installation and Maintenance	4



Sl. No.	List of Courses	Duration of course
1	Natural Resource Management	30 Hours
2	Research Methodology and IPR	30 Hours
3	Urban Gardens using Hydroponics	30 Hours
4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organic Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
15	Financial Literacy	30 Hours
16	Yoga and Meditation	30 Hours
		30 Hours
17	Steps for Career Plan	30 Hours
.8	MS Excel Basics	30 Hours
9	Quality Analysis	30 Hours
20	Ethical Writing Practice	30 Hours
1	Ansys	30 Hours
2	Video Making for Youtubers	30 Hours

Value added Courses offered by the University in 2020-21



School of Applied Sciences

Department of Zoology

Time: 11.00 a.m.

Virtual Mode

Board of Studies Meeting

Attendance Sheet

SI. No.	Name	Organization	Signature
1.	Dr. Sabuj Sahoo	Utkal University	Attended Online
2.	Dr. Sangram Kumar Lenka	TERI – Deakin Nanobiotechnology Centre	Attended Online
3.	Dr. E.M. Chhanda Prajnadarsini	ICAR – CMFRI, Chennai	Attended Online
4.	Prof. Dipankar Bhattacharyay	Dean – SoAS, Centurion University of Technology and Management	Attended Online
5.	Prof. Mohammed Siddique	Associate Dean- SoAS, Centurion University of Technology and Management	Attended Online
6.	Prof. Yashaswi Nayak	HoD- Dept of Zoology- SoAS, Centurion University of Technology and Management	Attended Online

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Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050

Date: 11.07.2020



School of Media and Communication

Date: 16.07.2020

MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Venue: Online Zoom Platform

Time: 3.00 p.m.

The Board of Studies (BoS) meeting of School of Media and Communication was held on 11.07.2020 at 3.00 p.m. on the online zoom platform. The following members were participated:

- 1. Dr. Anita Patra, Registrar, CUTM
- 2. Dr. Jayant Kumar Swain, Assistant Professor and Co-ordinator, PG Department of Journalism & Mass Communication, Ravenshaw University
- 3. Mr. Anuj Kumar Das, Journalist, Nandighosha TV
- 4. Dr. Chinu Bohidar, HoD, SoMC
- 5. Dr. Umakanta Nayak, Dean, School of Management, CUTM

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Civil Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 22.06.2019 were confirmed.

Agenda 2: Discussion and approval on revision required in the Curriculum of MAMC

• The HoD, SoMC gave a presentation based on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on that, the Board accepted and approved the existing syllabus for the academic year 2020-21.

Agenda 3: Discussion and approval on revision required in the Curriculum of BAMC

- BAMC syllabus was presented based on the suggestions made by the various stakeholders. The Board accepted and approved the incorporation of new courses in the syllabus for the academic year Year 2020-21 (Annexure-I).
 - Basket structure was introduced to allow students to choose course.
 - New course were introduced



Agenda 4: Inclusion of courses on life skills, value addition and Domain Courses

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The domain courses for SoMC was finalized. The same was agreed upon and approved by the Board members. (Annexure-II)

The Director, SoMC extended sincere thanks to all members of the Board.

The meeting ended with a Vote of Thanks to the Chair.

Dean-in-charge, SoMC

Dean School of Media and Communication Centurion University .Odisha

Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050

Annexure-I



New Courses Added to BAMC Syllabus

Sl. No	Course Title	Type (Skill/Employability/ Entrepreneurship)	Credit
1	Communication, Media and Society	Employability	6
2	Introduction to Journalism	Employability	6
3	Communication Research	Employability	6
<u> </u>	Exploring Hindi Cinema	Employability	6
5	Graphic Designing & Visual Images	Skill	6
6	Television Journalism	Employability	6
7	Global Politics and Media	Employability	6
8	Documentary	Employability & Skill	6
9	Communication and the Plastic Arts	Employability	6
10	Integrated Marketing Communication	Employability & Entrepreneurship	6
11	Data Analysis through Microsoft Excel	Skill	2
12	Job Readiness	Employability	6
12	Environmental Science	Employability	4

Annexure-II



SI. No.	Course Title	Credit	
1	Introduction to Quantum Computing	4	
2	Organic Farming	4	
3	Mushroom Farming	4	
4	Hydroponics Technology	4	
5	Poultry Farming	4	
6	Dairy Farming	4	
7 ·	Vermicomposting Farming	4	
8	Transformer Manufacturing, Repairing and Maintenance	4	
9	Electrical Installation	4	
10	Repair and Maintenance of Home Appliances	4	
11	Refrigeration and air conditioning	4	
12	Super critical Co2 plant operation	4	
13	Business Plan Preparation	4	
14	Composite fabrication practice	4	
15	Powder coating practice	4	
16	Farm appliances operation	4	
17	Bio fertilisers preparation	4	
18	PCB designing & fabrication	4	
19	Introduction to Block Chain Technology	4	
20	Introduction to Nutraceuticals	4	
21	Introduction to NLP	4	
22	Introduction to Computational Biology	4	
23	Product Life Cycle Management through Gate process	4	
24	New material development with Biovia	4	
25	Spectral image processing using Python	4	
26	Satellite data processing	4	
27	Working with Graphene and carbon fibre	4	
28	Adobe Tools and Illustrations	4	
29	Digital Painting	4	
30	Computer Installation and Maintenance	4	



	Course Title	Credit
1	Natural Resource Management	30 Hours
2	Research Methodology and IPR	30 Hours
$\frac{2}{3}$	Urban Gardens using Hydroponics	30 Hours
<u></u>	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organic Farming	30 Hour
9	Disaster Management	30 Hours
9 10	Ethical Hacking	30 Hours
10	Web Development	30 Hour
12	Food & Nutrition	30 Hours
12	Clinical Practice	30 Hour
13	Innovation Management	30 Hour
$\frac{14}{15}$	Financial Literacy	30 Hour
15	Yoga and Meditation	30 Hour
17	Steps for Career Plan	30 Hour
18	MS Excel Basics	30 Hour
19		30 Hour
20	Quality Analysis Ethical Writing Practice	30 Hour
0000		30 Hour
21	Ansys	30 Hour
22 23	Video Making for Youtubers Natural Resource Management	30 Hour

Value Added courses approved by university

University-wide Domains for SoMC

1	DACU2200 Data Analytics- Visualisation		20
2	BACU2210	Business Analytics	18
3	MLCU2000	Data Science and Machine Learning	26
4	ARCU2060	Gaming and Immersive Learning (AR & VR)	20
5	GMCU2140	GO-TO-MARKET(3D Experience)	22
6	FPCU2310	Food Processing	29
7	ABCU2320	Agri Business Management	23
8	FSCU2330	Commodity and Food Storage	29



School of Media and Communication

Time: 3.00 p.m.

Date: 11.07.2020

Venue: Online Zoom Platform

Board of Studies Meeting

Attendance Sheet

SI.No.	Name of the Member	Designation	Signature
1	Dr. Supriya Pattanayak	Vice Chancellor, CUTM	Attended Online
2	Dr. Anita Patra	Registrar, CUTM	Attended Online
3	Dr. Jayant Kumar Swain	Assistant Professor and Co-ordinator, PG Department of Journalism & Mass Communication, Ravenshaw University	Attended Online
4	Mr. Anuj Kumar Das	Journalist, Nandighosha TV	Attended Online
5	Dr. Chinu Bohidar	HoD, SoMC, CUTM	Attended Online
6	Dr. Umakanta Nayak	Dean, School of Management, CUTM	Attended Online

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Media and Communication

Time: 3.00 p.m.

Date: 11.07.2020

Venue: Online Zoom Platform

Board of Studies Meeting



Attendance Sheet

SI.No.	Name of the Member	Designation	Signature
1	Dr. Anita Patra	Registrar, CUTM	Attended Online
2	Dr. Jayant Kumar Swain	Assistant Professor and Co-ordinator, PG Department of Journalism & Mass Communication, Ravenshaw University	Attended Online
3	Mr. Anuj Kumar Das	Journalist, Nandighosha TV	Attended Online
4	Dr. Chinu Bohidar	HoD, SoMC, CUTM	Attended Online
5	Dr. Umakanta Nayak	Dean, School of Management, CUTM	Attended Online

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Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050



School of Paramedics and Allied Health Sciences

Date: 11/07/2020

MINUTES OF BOARD OF STUDIES MEETING held on 11/07/2020

Venue: Hybrid mode (Board Room, CUTM, Bhubaneswar and online)

Time: 11.00 AM

The Board of Studies (BoS) meeting of School of Paramedics and Allied Health Sciences was held on 11/07/2020 at 11 AM in hybrid mode.

The following members were present:

- Dr. Bhargavram (MD, Professor of Opthalmology)
- Dr. Ajay Kumar Singh (MD, Professor of Ophthalmology)
- Dr. Santosh Kumar Behera (Senior Scientist)

Dr. Debasish Sahoo (MD, Professor in Microbiology)

Dr. Debi Prasad Rath (MD, Professor in Pathology)

Dr. Ardhendu Praharaj (Ph. D. in Microbiology)

Dr. Harihar Praharaj (MD, Professor of Medicine)

Dr.Chandra Mouli (MD, Professor of Radiology)

Dr.Teja, Anesthesian

Prof. Sourav Karmakar (Asst. Prof. SoPAHS)

Ms. SNS Neelima (Asst. Prof. SoPAHS)

Mr. M.Vinay Dinakaran (Asst. Prof. SoPAHS)

Ms. N.Anuhya (Asst. Prof. SoPAHS)

Dr.M.L.N.Acharyulu (Associate Dean, SoPAHS)

Dr.CH.Nooka Raju (Associate Prof., SoPAHS)

Mr. Rajesh Sukkala (Asst. Prof. SoPAHS)

Dr. Ashish Kumar Sen (Adjunct Faculty, SoPAHS)

Dr. Monali P. Mishra (Assistant Prof., SoPAHS)

Ms. Sonali Dash (Assistant Prof., SoPAHS)

Ms. Susmita Chakrabarty (Lecturer, SoPAHS)



Prof. Sunil Kumar Jha (Dean, SoPAHS)

Dr. Soumya Jal (HoD, SoPAHS)

Dr. P.K. Mohanty, Dean (Acad) CUTM

All the members were welcomed to the online session by the Chairperson and were briefed regarding the purpose of the meeting. Thereafter, the Dean of SoPAHS presented on the achievements, improvements of the department in terms of academics and infrastructure.

Following are the programs offered by SoPAHS:

MSc Medical Laboratory Technology (MSc MLT) MSc Applied and Clinical Microbiology (MSc CMB) BSc Medical Laboratory Technology (BSc MLT) BSc Clinical Microbiology (BSc CMB) BSc Medical Radiation Technology (BSc MRT) BSc Optometry (BSc Optom)

Agenda of the meeting:

Agenda 1: The minutes of the last meeting of the BoS held on 22.06.2019 were confirmed.

Agenda 2: Discussion and approval on the content of syllabus for various courses of SoPAHS. Implementation of CBCS pattern.

At first, the Dean of the school presented the feedback received from several stakeholders, on the curriculum of its various departments. With respect to the feedback received from the stakeholders, the committee discussed and approved for incorporation/ modifications in the curriculum for the Academic session 2020-21.

- The committee approved to introduce the following programmes in SoPAHS: BSc Anaesthesia Technology; BSc Operation Theatre Technology; BSc Emergency Medicine Technology
- The curriculum was framed adopting the CBCS pattern.
- Based on the feedback from stakeholders, the curriculum was framed in a manner to incorporate Project/ Practical based learning. The Project and Practical components of relevant subjects were embedded along with their theory component. Much of practical exposure/ hands on training/ research and project exposure is emphasized.
- The curriculum developed is available on http://courseware.cutm.ac.in/ (links/ notes/ videos for relevant notes are also available). It was adapted in a way to ease flip class technique and enhance Virtual learning along with real time learning, which was highly appreciated by the board members.
- New courses added into the curriculum are provided in Annexure A.

Agenda 3: Inclusion of courses on life skills and value addition

For their overall development and wellbeing of the students, it was advised that students enroll in the various life skills and value-adding courses that are offered by the university. The Board members agreed and gave their approval to the same.

Details of the life skill and value added courses introduced are mentioned in Annexure B.



The Dean, SoPAHS extended sincere thanks to all the members of the Board.

The meeting ended with a vote of thanks to the Chair.

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Prof. Suni Kumar Jha DEAN School of Paramedics & Allied Health Sciences Centurion University of Technology & Management Bhubaneswar, Odisha-752050

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Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050

11/7/20

HOD, SoPAHS Dr. Sounya Jal Ascociata Professor & MUD Bahool of Peremedics & Aulied Hooth Sciences Centurion University of Technology & Ranagement Ramachandrapur, Bhubaneswar - 752050



Annexure A ·

List o	ist of new courses added					
SI. No	Course Title	Type (Skill/ Employability/	Credit			
		Entrepreneurship)				
	MSc MLT		1			
1.	Human Anatomy and Physiology	Employability	3			
2.	Analytical Techniques	Entrepreneurship	4			
3.	Biological Chemistry	Employability	3			
4.	Clinical Hematology	Entrepreneurship	4			
5.	Clinical Pathology	Entrepreneurship	4			
5. 6.	Cell and Molecular Biology	Employability	3			
7.	Clinical Biochemistry	Employability	3			
8.	Histology	Employability	4			
o. 9.	Medical Laboratory Technology	Entrepreneurship	5			
9. 10.	Blood Banking	Entrepreneurship	4			
11.	Health Programme in India	Entrepreneurship	3			
12.	Medical Microbiology	Employability	4			
13.	Immunology & Parasitology	Employability	5			
14.	Advanced Hematology	Entrepreneurship	4			
15.	Research Methodology	Employability	3			
16.	Mini Project	Employability	2			
17.	Internship	Employability	12			
18.	Project	Employability	12			
19.	Environmental Studies	Employability	2			
20.	Job Readiness	Employability	3			
21.	Proficiency in English	Employability	2			
	MSc CMB					
1.	Human Anatomy and Physiology	Employability	3			
2.	Analytical Techniques	Entrepreneurship	4			
3.	Biological Chemistry	Employability	3			
4.	Clinical Hematology	Entrepreneurship	4			
5.	Clinical Pathology	Entrepreneurship	4			
6.	Cell and Molecular Biology	Employability	3			
7.	Clinical Biochemistry	Employability	3			
8.	Histology	Employability	4			
9.	General Microbiology	Employability	4			
10.	Systematic Bacteriology	Employability	4			
11.	Applied microbiology	Employability	3			
12.	Medical Parasitology and	Employability	5			
	Mycology					
13.		Employability	5			
14.		Employability	4			
15.	Research Methodology	Employability	3			

List of new courses added



16.	Mini Project	Employability	2
17.	Internship	Employability	12
18.	Project	Employability	12
19.	Environmental Studies	Employability	2
20.	Job Readiness	Employability	3
21.	Proficiency in English	Employability	2
	BSc MLT		
1.	Human Anatomy and Physiology	Employability	3
2.	Cell Biology	Employability	4
3.	Medical Instrumentation and Technique	Entrepreneurship	4
4.	Biochemistry	Employability	4
5.	Clinical Pathology	Entrepreneurship	4
6.	Immunology	Employability	5
7.	Molecular Biology	Entrepreneurship	4
8.	Haematology	Entrepreneurship	5
9.	Microbiology	Employability	5
10.	Medical Law and Ethics	Employability	3
11.	Histology	Employability	4
12.	Advanced Hematology	Entrépreneurship	4
13.	Research Methodology	Employability	3
14.	Analytical Biochemistry	Employability	5
15.	Applied Haematology	Entrepreneurship	5
16.	Immunopathology	Employability	4
17.	Parasitology	Employability	5
18.	Basic Computer and Information Science	Employability	2
19.	Blood Banking	Entrepreneurship	4
20.	Medical Laboratory Management	Entrepreneurship	5
21.	Introduction to Quality and Patient Safety		
22.	Mycology & Virology	Employability	5
23.	Mini Project	Employability	2
24.	Internship	Employability	12
25.	Project	Employability	12
26.	Environmental Studies	Employability	2
27.	Job Readiness	Employability	3
28.	Proficiency in English	Employability	2
	BSc CMB		
1.	Human Anatomy and Physiology	Employability	3
2.	Cell Biology	Employability	4
3.	Medical Instrumentation and Technique	Entrepreneurship	4
4.	Biochemistry	Employability	4
5.	Clinical Pathology	Entrepreneurship	4
6.	Immunology	Employability	5
7.	Molecular Biology	Entrepreneurship	4



8.	Haematology	Entrepreneurship	5
9.	Microbiology	Employability	5
10.	Medical Law and Ethics Employability		3
11.	Systemic Bacteriology		
12.	Systemic Virology & Mycology	Employability	5
13.	Research Methodology	Employability	3
14.	Analytical Biochemistry	Employability	5
15.	Public Heath Microbiology	Employability	4
16.	Pharmaceutical Microbiology	Employability	4
17.	Industrial Microbiology	Employability	4
18.	Basic Computer and Information Science	Employability	2
19.	Epidemiology	Employability	3
20.	Diagnostic Bacteriology	Entrepreneurship	5
21.	Diagnostic Mycology	Entrepreneurship	4
22.	Diagnostic Virology	Entrepreneurship	4
23.	Diagnostic Parasitology	Entrepreneurship	4
24.	Mini Project	Employability	2
25.	Internship	Employability	12
26.	Project	Employability	12
27.	Environmental Studies	Employability	2
28.	Job Readiness	Employability	3
29.	Proficiency in English	Employability	2
6.3.	BSc MRT		
1.	General Anatomy	Employability	5
2.	General Physiology	Employability	5
3.	Basic Biochemistry	Employability	5
4.	Biology	Employability	5
5.	Cell Biology	Employability	5
6.	Mathematics	Employability	5
7.	Basic Radiation Physics	Employability	4
8.	Fundamental Medical Imaging	Entrepreneurship	6
9.	Principles of Radiation Therapy	Employability	4
10.	Basic Medical Instrumentation & Technique	Entrepreneurship	4
11.	Applied Radiation Physics & Radiation Protection	Employability	4
12.	Radiographic Technique - 1	Employability	5
12.	Basic Equipment in Radiotherapy	Employability	4
14.	Mammography and Ultrasound	Entrepreneurship	4
15.	Applied Equipment of Radio Diagnosis	Employability	4
16.	Radiotherapy and Brachy Therapy in Malignant & Non-malignant Disease	Employability	4
17.		Employability	5
18.	Physics of CT & MRI	Employability	4
19.		Employability	5



1	Drug Diagnostic Radiology		4	
20.	Computerized Tomography (CT Scanning) Method & Procedure	Tomography (CT Employability		
21.	Basic of Magnetic Resonance	Employability	4	
22.	Imaging Image Interpretation of X-Ray	Entrepreneurship	5	
	Mammography, CT & MRI	Employability	3	
23.	Medical Law and Ethics		4	
24.	Orientation in Clinical Sciences Course contents	Employability		
25.	Basic Computer and Information Science	Employability	2	
26.	Project	Employability	18	
27.	Internship	Employability	18	
28.	Environmental Studies	Employability	2	
29.	Job Readiness	Employability	3	
30.	Proficiency in English	Employability	2	
	BSc Optometry			
1.	Biology	Employability	4	
2.	Maths	Employability	4	
3.	Cell Biology	Employability	4	
<u>3.</u> 4.	General Anatomy	Employability	5	
5.	General Physiology	Employability	5	
6.	Basic Biochemistry	Employability	5	
7.	GEOMETRIC OPTICS	Employability	5	
7. 8.	BASIC COMPUTER AND INFORMATION SCIENCE	Employability	2	
9.	OCULAR ANATOMY	Employability	4	
10.	OCULAR PHYSIOLOGY	Employability	4	
11.	INTRODUCTION TO OPTOMETRY	Employability	2	
12.	PHYSICAL OPTICS	Entrepreneurship	4	
13.	VISUAL OPTICS –I	Entrepreneurship	5	
14.	OPTOMETRIC OPTICSI	Entrepreneurship	5	
14.	OCULAR DISEASES -1	Entrepreneurship	4	
16.	and a second a second a second a	Employability	4	
17.	THE PROPERTY AND A DECIDE	Entrepreneurship	2	
18.		Entrepreneurship	5	
19.		Employability	5	
20.		Employability	4	
20.		Entrepreneurship	5	
22.		Entrepreneurship	5	
23.		Entrepreneurship	5	
24.		Entrepreneurship		
25.		Employability	4	
26.		Entrepreneurship	5	
27		Employability	4	



UNIVERSI	18	
OPTOMETRY		
SYSTEMIC DISEASES & EYE	Employability	4
OCCUPATIONAL OPTOMETRY	Entrepreneurship	3
LAW & OPTOMETRY	Employability	3
PUBLIC HEALTH& COMMUNITY	Employability	3
OPTOMETRY		
OPTOMETRIC INSTRUMENTS	Entrepreneurship	4
PROJECT	Employability	18
INTERNSHIP	Employability	20
Environmental Studies	Employability	2
	Employability	3
	Employability	2
	OPTOMETRY SYSTEMIC DISEASES & EYE OCCUPATIONAL OPTOMETRY LAW & OPTOMETRY PUBLIC HEALTH& COMMUNITY OPTOMETRY OPTOMETRIC INSTRUMENTS PROJECT	SYSTEMIC DISEASES & EYEEmployabilityOCCUPATIONAL OPTOMETRYEntrepreneurshipLAW & OPTOMETRYEmployabilityPUBLIC HEALTH& COMMUNITYEmployabilityOPTOMETRYEmployabilityOPTOMETRYEntrepreneurshipPROJECTEmployabilityINTERNSHIPEmployabilityEnvironmental StudiesEmployabilityJob ReadinessEmployability



Annexure B

List of Skill courses (Basket) approved

SI.	Course Title	Credit	(T+P+P)
No	Refraction Technology (CUTM3057)	4	0+3+1
1. 2.	Emergency Medical Technology (CUTM3058)	4	0+3+1
3.	Medical Lab Technology (CUTM3059)	4	0+3+1
4.	Operation Theatre Technology (CUTM3060)	4	0+3+1
5.	Radiology Technology (CUTM3061)	4	0+3+1
<u>5.</u> 6.	Phlebotomy Technology (CUTM3062)	4	0+3+1
7.	First Aid Service (CUTM3063)	4	0+3+1
8.	General Duty Assistance Service (CUTM3064)	4	0+3+1
9.	X- ray Technology (CUTM3065)	4	0+3+1
1254 C 1254			

List of value-added courses approved

SI.	Course Title	Hrs. of input	
No		20 brc	
1.	Gender, Human Rights and Ethics (CUVA4040)	30 hrs	



School of Paramedics and Allied Health Sciences

Time: 11.00 AM

Date: 11.07.2020

Venue: Hybrid mode (Board Room, CUTM, Bhubaneswar and online)

Board of Studies Meeting

Attendance Sheet

Sl. No.	Name of the BOS Member (Internal Faculty and External Resource)	Designation	Signature
1	Dr. Santosh Kumar Behera	Regional Medical Research Center	Attended online
2	Dr. Debasish Sahoo	SOA University	Attended online
3	Dr. Debi Prasad Rath	CARE Hospital	Attended online
4	Dr. Ardhendu Praharaj	District Microbiology Lab, Nabarangpur	Attended online
5	Dr. Harihar Praharaj	Directorate of Medical Education and Training, Odisha	Attended online
6	Dr. Bhargavram	MD, Professor of Opthalmology, Sandhya Eye Hospital, Andhra Pradesh	Attended online
7	Dr. Ajay Kumar Singh	MD, Professor of Ophthalmology, DHC Khordha	Attended online
8	Dr.Chandra Mouli	Radiology Dept., GVP Institute of Health Care and Medical Technology,Marika valasa, Visakhapatnam,A.P	Attended online
9	Dr.M.Bhargava Ram	Opthamologist, Sandhya Eye Hospital, Maddilapale, Visakhapatnam	Attended online
10	Dr.Teja	Anesthesian	Attended online
11	Dr. Monali P. Mishra	Assistant Prof., SoPAHS (CUTM)	Attended online
12	Ms. Sonali Dash	Assistant Prof., SoPAHS (CUTM)	Attended online
13	Ms. Susmita Chakrabarty	Lecturer, SoPAHS (CUTM)	Attended online
14	Prof. Sourav Karmakar	Asst. Prof. & HoD, SoPAHS (CUTM)	Attended online
15	Ms. SNS Neelima	Asst. Prof. SoPAHS (CUTM)	Attended online
16	Dr.CH.Nooka Raju	Associate Prof., SoPAHS (CUTM)	Attended online
17	Mr. M.Vinay Dinakaran	Asst. Prof. SoPAHS (CUTM) Attended online	



	UNIVERSITY	
Ms. N.Anuhya	Asst. Prof. SoPAHS (CUTM)	Attended online
Dr.M.L.N.Acharyulu	Associate Dean, SoPAHS (CUTM)	Attended online
		Mis. N.Anunya Assertion Solution (Clutter)

Dear, SoPAHS

Prof. Sunil Humar Jha DEAN School of Paramedics & Allied Health Sciences Centurion University of Technology & Management Bhubaneswar, Odisha-752050

Dean, Academics

HODESEPAHSOO

School of Asternatics & Ailled Health Sciences Centurion University of Technology & ManagementCenturion University & ManagementCenturion University & ManagementCenturion University & ManagementCenturion University



School of Engineering & Technology

Department of Civil Engineering

Date: 22/06/2019

MINUTES OF BOARD OF STUDIES MEETING held on 22/06/2019

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Civil Engineering was held on 22/06/2019 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the members:

1. Dr. Vazeer Mahmood, Professor, Dept of Civil Engg., Andhra University

2 Dr Siba Prasad Mishra, , Internal Expert

3 Prof. Prafulla Kumar Panda, Internal Expert

4 Prof. Sagarika Panda, Internal Expert

5 Prof. Kamal Kumar Barik, Internal Expert

6 Prof Rakesh Kumar Jena, Internal Expert

7 Prof Prashant Nayak, Internal Expert

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Civil Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 30/06/2018 were confirmed.

Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Tech, Civil Engg., M.Tech Structural Engineering and M.Tech Transportation Engg.

The HoD, Civil Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2020-21.

- The syllabus was highly appreciated because the university follows Choice-based Credit system and courses relevant to the advancement in Mechanical Engineering are put in the
- The members noted that the courses are mostly industry-oriented and also provide scope for competitive examination like UPSC, GATE etc. The members remarked that the syllabus is designed to enhance skill level of the students.
- The syllabus offers scope for gaining knowledge in other branches of engineering. Also offers scope to enhance on knowledge in AI, Machine learning, Nano Technology, Data science,
- The syllabus is best suited for each semester, but certain courses need to be modified. The syllabus is good but as compared to the content of syllabus, the credits are very less.





- The syllabus is quiet useful. There should be more practice subjects to increase student efficiency and skill.
- The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component. (Annexure A.)
- Discussion on modification of syllabus of Basket-5.
- The domain course should be taught in practice and project mode.
- The Board approved the changes suggested in the Hydraulics and Hydraulic machine, Disaster
- Management, Transportation Engg. And Water supply and sanitary engineering as per the latest Software and technology being used by the industry. List of existing courses where syllabus was revised in (Annexure B & C)

Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure D)

The HoD, Department of Civil Engg. extended sincere thanks to all members of the Board.

The meeting ended with a voteof thanks to the Chair.

Dean, SOET Dean, SOET Centurion University of Technology & Management Octions

Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050

06.19

HoD, CENTLIGHT & Management, BBSR



Annexure-A



List of new courses added

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Disaster Preparedness & Planning management	Skill And Employability	2
2	Functional Planning & DPR	Skill And Employability	3
3	Site Supervision & Measurement Methods.	Skill And Employability	4
4	Tendering Process, Bidding Contract, Agreements & Arbitration.	Skill And Employability	3
5	Green Building Design	Skill And Employability	3
6	Barrier Free Design	Skill And Employability	2
7	Intelligent Building Design	Skill And Employability	
8	3D Modelling and VR experience of Building	Skill And Employability	4
9	Geospatial Technology and its Application	Skill And Employability	
10	Photogrammetry and its Application	Skill And Employability	
11	Concrete Technology	Skill And Employability	2



Annexure-B



List of existing courses where	syllabus wa	s revised
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Basket/ Semester	Name of Course	No. of Modules/ Topics revised	Revised Modules/Topics (details)
IV	Pre-Fabricated Structures	1	One module has been added depending on the industry requirement
IV	Soil Mechanics	2	One module has been added depending on the industry requirement
IV	Transportation Engineering	2	One module has been added and another module is merged with slight change as per industry requirement
IV	Water supply & Waste water Management	1	One module has been added depending on the industry requirement
IV	Hydrology & Water Resources	1	One module has been added depending on the industry requirement
IV	Engineering Quality Control and Risk	1	One module has been added depending on the industry requirement
IV	Management in Construction Geotechnical Investigations	1	One module has been added depending on the industry requirement
IV	Repairs, Renovation and Rehabilitation of Structures	1	One module has been added depending on the industry requirement
IV	Software Based Project	1	One module has been added depending on the industry requirement
IV	Scheduling and Management Earthquake Resistant Design	1	One module has been added depending on the industry requirement
IV	Architectural Design	1	One module has been added depending on the industry requirement
IV	Remote Sensing & Digital Image	1	One module has been added depending on the industry requirement
IV	Processing Lidar Remote Sensing and its	1	One module has been added depending on the industry requirement
IV	Applications Smart City Planning	1	One module has been added depending on the industry requirement

Annexure-C



List of existing M.Tech courses where syllabus was revised

SI no	Name of Course	No. of Modules/T opics revised	Revised Modules/Topics (details)	
1	Advanced Structural Analysis	1	One module has been added depending on the industry requirement	
2	Structural Dynamics	1	One module has been added depending on the industry requirement	
3	Theory of Elasticity & Plasticity	1	One module has been added depending on the industry requirement	
4	Bridge Engineering	1	One module has been added depending on the industry requirement	
5	Computer Graphics	1	One module has been added depending on the industry requirement	
6	Finite Element Method	1	One module has been added depending on the industry requirement	
7	Concrete Technology	1	One module has been added depending on the industry requirement	
8	Structural Engineering Lab	1	One module has been added depending on the industry requirement	
9	Renovation and retrofitting of green structures	1	One module has been added depending on the industry requirement	
10	Soil Dynamics and Geotechnical Earthquake Engineering	1	One module has been added depending on the industry requirement	
M Tech	Transportation Engineering			
1	Pavement Analysis and Design	1	One module has been added depending on the industry requirement	
2	Highway Project formulation and Economics	1	One module has been added depending on the industry requirement	
3	Traffic Safety	1	One module has been added depending on the industry requirement	
4	Remote Sensing and GIS for Transportation Engineering	1	One module has been added depending on the industry requirement	
5	Pavement Evaluation, Rehabilitation and Maintenance	1	One module has been added depending on the industry requirement	
6	Highway Project formulation and Economics	1	One module has been added depending on the industry requirement	





Annexure-D

List of Skill courses (Basket) approved

SI.	Course Title	Credit	(T+P+P)
No 1	Refraction Technology	3	0+2+1
2	Emergency Medical Technology	3	0+2+1
2	Medical Lab Technology	3	0+2+1
395177		3	0+2+1
4	Operating Theatre Technology	3	0+2+1
5	Radiology Technology	3	0+2+1
6	Phlebotomy Technology	3	0+2+1
7	First Aid Service	3	0+2+1
8	General Duty Assistance Service	3	0+2+1
9	X- ray Technology	3	0+2+1
10	Retail Sales	3	0÷2÷1
11	Basketball		0+2+1
12	Gym Fitness	3	
13	Swimming	3	0+2+1
14	Yoga & Meditation	3	0÷2÷1
15	Solar PV Installation	3	0+2+1
16	Solar Lighting Technology	3	0÷2÷1
17	Solar PV Microgrid System	3	0÷2÷1
18	Solar PV Driven Equipment O/M & Assembly	3	0+2+1
19	Solar Thermal Engineering	3	0÷2÷1

List of Domain courses approved

SI. No	Domain Course Title	Credit	(T+P+P)
1	Automobile Engineering	24	8+12+10
2	Operation and Maintenance of Electrical Grid System & Transformers	24	8+12+10

List of value-added courses approved

SI. No	Course Title	Hrs. of input
1	LSD-2	30
2	Conduct in daily Life-Insights from The Panchatantra	30
3	Human Rights	30
4	Renewable Energy	30
5	Data science & ML	30
6	Introduction to Nutraceuticals	30
7	Introduction to Tableau	30
8	Basics of Photography	30
9	Innovation Management	30





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10	Effective Writing	30	
11	Indian Culture and History	30	
12	Critical Thinking	30	
13	Disability, Diversity and Development	30	
14	Intellectual Property Rights	30	
15	Emotional Intelligence	30	
16	Home remedies for healthy living	30	
17	Self-Management: Insights from Srimad Bhagavad Gita	30	



Proceedings of board of studies in Cevil Engog Rept held on 2222 June 2019 atg Considered the syllabus basket. IV 4 V and following recommendations were made. Bauet-IV. CECC-0103 - Hidralice and Hydralic Madue. module - Internal momentin Equation Conly Introducty module - Inclume of Acy for - mode - 4 - Sudden Transition shind mentico mode-s, 405 - surfue pro Fly) d's nort etcp method. Disaster mangent. modele-3, THE- send chye to manmade limiter Estimation: Addition of few theory rectively Foundation T- Module of XILF should to be maid optimal module - I - Addition of liesuification, overall concept shuld be converse substratice derity in all irractices Trangporntin . modele 1, - Types of noor shad inknow module-6- To be shifted to module-2 ceefy subsennt changes. Wator surry modele - Design of Water supply system instead of majort one. Ins Siatios Module - 7 - Addition of Reserver Types, capacity etc. practice Port (B) addition of Estenation of a desires dis dypy the a swen poment. Ref. Bote. TodisitatinEn B.C. Junia.

10 central and to hand to have an the H 2018 at 24 Pomain -5 -) her Techical investigation. middle-6: Heleesing of Water Table Study in yeo Tehi ay Engs. -1 Totte of the correr project meneral project Shury mayement. Shit be chip. mately Interest manipping Equiling Cath & P 1. Dr. Gont). Vareer mahammood & bonoof 2206.2019 a. prot. profulla klow panela Pranda 3. prof. sagaring Panda 216/2019 4. prif. Kamaj Kn. Bartice Logio 6-0 I. Port. Rauss kun Jeag 500 92.0619 b. Josef. Mashont Nayare Transat MULLAR B BALLAR

Proceedings of the Board of Studics in M.Se in Geoinformatics - held on 22.06.2019. 1121 Member Presents: -1. Porof. K. M. Sets. 2. Rudra Naturpan Tripatty. 3. Anjan Kumar Mallick. 4. Kanal. Kumars Bamic - Convenor 5 Sagarila Parda - HOD, Civil Buisness . 1. Resolved that the nonencentine M.Se. EN Georatics should be changed to M.Se in "Geoinformaties?. 2. Mins change in Syllabor ho been wade 3. IN III semistard one min project ho been added as compulsomy subject of "4" credits with a report and presentation A. In iv Semisters "A" credit web GIS" he been included. The project will be ' to' credits. Anallie 22/6/19. 102 6.09 Phallice 22/06/19 (000) 22-66-1A 22/6/2019



School of Engineering & Technology

Department of Computer Science and Engineering

Date: 22.06.2019

MINUTES OF BOARD OF STUDIES MEETING held on 22.06.2019

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Computer Science and Engineering was held on 22.06.2019 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the Board members:

- 1. Sanjeeb Kumar, Industry Expert, Mindtree
- 2. Prof. Subbarao, APSSDC Director
- 3. Chandan Giri, Asst. Prof. CSE
- 4. K. Santosh Chandra Rao, Asst. Prof., CSE
- 5. Suvendu Kumar Nayak, Asst. Prof., CSE
- 6. Dr. Prasant Kumar Mohanty, Dean, SoET

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Computer Science Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 30.06.2018 were confirmed.

Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Tech, Computer Science Engg.

- The HoD, Computer Science and Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2019-20.
- The Board approved the changes suggested in the existing syllabus and some new domains were added as per the latest technology being used by the industry. (Annex 1)
- In this regard Cyber Security domain is approved to run in collaboration with IBM, and Cloud domain to be offered in collaboration with AWS.

Agenda 3: Inclusion of courses on life skills and value addition

The members suggested to provide various life skills and value-added courses offered by the university for the overall improvement of student. The same was agreed upon and approved by the Board members. (Annex 2 and Annex 3)





The HoD, Department of Computer Science and Engg, extended sincere thanks to all members of the Board,

The meeting ended with a vote of thanks to the Chair.

HoD, Computer Science & Engineering

Dean, SOET Dean, Academics HoD, Co Dean, SOET Dean Academics Centurion University of Technology & Management Odisha Odisha

HOD CSE Centurion Institute of Technology





Annexure 1

List of courses partly modified

SI. No	Name of Course	Credit	Details of modification
1	Data Base Management System	3.	30% new content was added
2	Operating System	3	20% new content was added
3	Problem Solving using Python	3	35% new content was added
4	Mobile App Development	4	65% new content was added
5	Computer Networks	4	65% new content was added
6	Computer Organization and Architecture	3	50% new content was added
7	Formal Language and Automata Theory	3	30% new content was added
8	Design Analysis and Algorithms	4	25% new content was added





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Annexure 2

S No	Courses offered in the Year 2019 Course Name	Course Code	Credit
1	Refraction Technology	CUTM3057	4
2	Emergency Medical Technology	CUTM3058	4
3	Medical Lab Technology	CUTM3059	4
4	Operating Theatre Technology	CUTM3060	4
5	Radiology Technology	CUTM3061	4
6	Phlebotomy Technology	CUTM3062	4
7	First Aid Service	CUTM3063	4
8	General Duty Assistance Service	CUTM3064	4
9	X- ray Technology	CUTM3065	4
10	Retail Sales	CUTM3067	4
11	Basketball	CUTM3068	4
12	Gym Fitness	CUTM3069	4
13	Swimming	CUTM3070	4
14	Yoga & Meditation	CUTM3072	4





Annexure 3

List of Value added Courses offered in the Year 2019-20

S No	Name of the value added courses (with 30 or more contact hours)offered	Course Code (if any)	Duration of course
1	The Mind-Its mysteries and conquest	CUVA0040	30 Hours
2	Understanding Personality- The Bhagavad Gita Perspective	CUVA0041	30 Hours
3	Understanding Leadership - The Valmiki Ramayana Perspective	CUVA0042	30 Hours
4	Organic Farming	CUVA0043	30 Hours
5	Urban Kitchen gardens using Hydroponics	CUVA0044	30 Hours
6	Introduction to PowerBI	CUVA0045	30 Hours
7	Introduction to Python	CUVA0046	30 Hours
8	Food & Nutrition	CUVA0047	30 Hours
9	Behavioural Economics	CUVA0052	30 Hours
10	Nutrition for Healthy Living	CUVA0053	30 Hours
11	Conflict Resolution	CUVA0054	30 Hours
12	Gender issues in Contemporary times	CUVA0055	30 Hours
13	Natural Resource Management	CUVA0067	30 Hours
14	Rural Livelihood and Promotion	CUVA0068	30 Hours
15	Leadership in Organizations	CUVA0069	30 Hours
16	Introduction to Qualitative Research Methodology	CUVA0071	30 Hours





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17	Knowledge Management	CUVA0072	30 Hours
18	Professional Etiquette	CUVA0073	30 Hours



18 Proceedings of Bos Meeting herd on 22-06-19 Minutes of the Meeting Agenda - 1. Revision of Blech CSE Synabus, Basket3, 425 2. Blech. CTUS The Bos meeting was held in CUTM, BBSR on dated 22-06-19 for the session 2019- 20. The course structure and syllabus for above montioned programmes were presented to the members of Bos for theore final approval. The following suggestioned were made,. - The course structure and synabus was accepted with out any changes. Following ouggestions were descused to extrangithen the quality of delovery. D FEW Endustry lecture should be Encluded En course pedagogy Whenever applicable. a) Fundamental and bairie concept must be covered before projects and precisical works are under taken. 8) It is suggested to keep advance Java topics in the curriculum 4) More Indusing collaboration has to be doene in order to expose students and faculty mombers to the real worked problems and Endustry environment The meeting wers concluded with vote of thanks to the member present Seno. Mame place/organization big Sanjeb kremar Mindfree Kning 1. 2-Chardon Kuman Gini CRE, CUTM, PKD 3. K. Sontach Ch. Rao CSE, CUTM, PKD (HOD) 4. Suvenda Nayak CPE, COTM, BBSR



School of Engineering & Technology

Department of Mechanical Engineering

Date: 22/06/2019

MINUTES OF BOARD OF STUDIES MEETING held on 22/06/2019

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Mechanical Engineering was held on 22/06/2019 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the members:

1. Prof. S. S. Mohapatra Professor, NIT Rourkela

2 Mr. Rabindra Saha, External Expert, Tata Technologies

3 Prof. Tapan Rath, Internal Expert

4 Prof. P. S. Rao, Internal Expert

5 Prof. Ramana Rao, Internal Expert

6 Prof. Ipsita Mishra, Internal Faculty

7 Prof. R. C. Mohanty, Internal Faculty

8 Prof. Sukant Nayak, Internal Faculty

9 Prof. Sudeep Kumar Singh, Internal Faculty

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Mechanical Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 30/06/2018 were confirmed.

Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Tech, Mechanical Engg.

The HoD, Mechanical Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2020-21.

- The syllabus was highly appreciated because the university follows Choice-based Credit . system and courses relevant to the advancement in Mechanical Engineering are put in the syllabus.
- The members noted that the courses are mostly industry-oriented and also provide scope for . competitive examination like UPSC, GATE etc. The members remarked that the syllabus is designed to enhance skill level of the students.





- The syllabus offers scope for gaining knowledge in other branches of engineering. Also offers scope to enhance on knowledge in AI, Machine learning, Nano Technology, Data science, SAP etc.
- The syllabus is best suited for each semester, but certain courses need to be modified.
- The syllabus is good but as compared to the content of syllabus, the credits are very less.
- The syllabus is quiet useful. There should be more practice subjects to increase student efficiency and skill.
- The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component. (Annexure A.)
- Discussion on modification of syllabus of Basket-5.
- The domain course should be taught in practice and project mode.
- The Board approved the changes suggested in the Introduction to Hybrid and Electric Vehicles, Fluid Power Control, Renewable Energy Systems, Fundamentals of Heat Engine as per the latest Software and technology being used by the industry. List of existing courses where syllabus was changed in (Annexure B)

Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members.(Annexure C)

The HoD, Department of Mechanical Engg. extended sincere thanks to all members of the Board.

The meeting ended with a voteof thanks to the Chair.

Dean, Academics

HoD, Mechanical Engineering

Dean, SoET Dean, SOET Centurion University of Technology & L'----- Centurion University of Technology & Management Odisha

Dean - Academic Bhubaneswar, Khurda, Ocisha-752050







List of new courses added

	SI. Course No	Title	Type(Skill/Employability/Entrepreneurship)	Credit	
			Skill And Employability	3	
1	2 Fluid Po Control	ower	Skill And Employability	3	
3 Introduction to Hybrid and Electric Vehicles		und	Skill And Employability	3	
4		ole	Skill And Employability	3	
5		turing	Skill And Employability	3	
6	Manufac Technolo	turing	Skill And Employability	3	
7	Design fo Manufact		Skill And Employability	3	
8	Finite Ele Analysis	ement	Skill And Employability	3	
9	Digital Manufact	uring	Skill And Employability	3	
10	Fundamer Heat Engi	ntals of	Skill And Employability	3	
11	Design of Thermal E Systems		Skill And Employability	3	
12	Mechanics Machines	sof	Skill And Employability	3	
13	Strength o Material	f	Skill And Employability	3	
14	Design of Transmissi Systems	on	Skill And Employability	3	
15	Fluid Mech and Heat Transfer	anics	Skill And Employability	3	
16 Introduction to S Automobile			Skill And Employability	3	
Engineering 17 Entrepreneurship Opportunities in Automobile Trade		rship	Skill And Employability	3	
8			Skill And Employability	3	
		asic S	Skill And Employability	3	
	Subsystems of	of S	kill And Employability	3	





		UNIVERSITY	
	Automobile		
21	Design and	Skill And Employability	3
	Maintenance of		
	Electric Vehicles		3
22	Project	Skill And Employability	3
23	Internship	Skill And Employability	3
24	Jigs and Fixtures	Skill And Employability	3
25	Process Planning and Cost Estimation	and Cost Estimation	
26	Conventional Machining for Cylindrical Shape Component	Skill And Employability	3
27	Conventional Machining for Prismatic Shape Component	Skill And Employability	3
28	CNC Machining	Skill And Employability	3
29	Non-Traditional Machining and 3D Printing	Skill And Employability	
30	Wood Engineering	Skill And Employability	3
31	Project	Skill And Employability	3
32	Internship	Skill And Employability	3
33	Joining Processes & Technology	Skill And Employability	3
34	Arc Welding, Gas Welding & Brazing	Skill And Employability	3
35	Metal Transfer & Weld Metallurgy	Skill And Employability	3
36	Design of Welded Joints (CATIA)	Skill And Employability	3
37	Welding of Skill And Employability Stainless Steel, Aluminium, Copper, Cast Iron and Hard Surfacing		3
38	Testing of Welded Joints (DT, NDT & Microstructure)	Testing of Skill And Employability Welded Joints (DT, NDT &	
39	Project	Skill And Employability	3
40	Internship	Skill And Employability	3



Annexure-B



List of existing courses where syllabus was changed

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
111	Introduction to Hybrid and Electric Vehicles	2	One module has been added and another module is partly modified depending on the industry requirement
IV	Fluid Power Control	l	One module has been added depending on the industry requirement
	Renewable Energy Systems	2	One module has been added and another module is partly modified depending on the industry requirement
	Fundamentals of Heat Engine	1	One module has been added depending on the industry requirement





Annexure-C

List of Skill courses (Basket) approved

SI.	Course Title	Credit	(T+P+P)	
No	a topic la clation	3	0+2+1	
1	Solar PV Installation	3	0+2+1	
2	Solar Lighting Technology		0+2+1	
3	Solar PV Microgrid System	3	0+2+1	
4	Solar PV Driven Equipment O/M & Assembly	3	0+2+1	
5	Solar Thermal Engineering	3	0+2+1	

List of Domain courses approved

	Domain courses -pp-	Credit	(T+P+P)	
	Domain Course Title	Crean		
No		21	8+12+10	
1	Automobile Engineering	24		_

List of value-added courses approved

SI.	Course Title	Hrs. of input
No		30
1	Introduction to python	30
2	Gender issue	30



BOS MEETING (22/06/19) 17 81 Aganda - Approval of Mechanical engeneering Basket IV and Basket V Syllabus Pok 2018 Batch Students, 1 Date + 22/06/19 Nomile - Cad lab, CIT Comput Jabani. Mamber Propost - Signature 1. Prof. S. & Monopalra CNIT Roursela) Sof Smahap 2. S. Mohanty (Nilashal Typet Nigam Ltd) Asal 3. Mr. Rabindra Sab (147m, BBCR) 4. Prof. P. e. Rao. COTM, PRD). Marcan I. A. 5. Dr. A. M. Mohomby (PRO. VC) for the 6. Mr. Tapon Rath COUTM. BBSA (Mars 7. Dr. R. C. Mohomby (CUTM, BBSR) - July 8. Prof. Amorit Mallick (CDIM, PRD) fruit mallick. 9. Prajna Parameta Debuta (HOD, ME) W 10. Mns. Desita Meshira Nals. 11. Mr. M.K. Rath. 12. Sudeep kuman Singh (Aut Prey Mechanical Eng)



School of Engineering & Technology

Department of Civil Engineering

Date: 22/06/2019

MINUTES OF BOARD OF STUDIES MEETING held on 22/06/2019

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Civil Engineering was held on 22/06/2019 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the members:

1. Dr. Vazeer Mahmood, Professor, Dept of Civil Engg., Andhra University

2 Dr Siba Prasad Mishra, , Internal Expert

3 Prof. Prafulla Kumar Panda, Internal Expert

4 Prof. Sagarika Panda, Internal Expert

5 Prof. Kamal Kumar Barik, Internal Expert

6 Prof Rakesh Kumar Jena, Internal Expert

7 Prof Prashant Nayak, Internal Expert

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Civil Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 30/06/2018 were confirmed.

Agenda 2: Discussion and approval on any revision required in the Curriculum of B. Tech, Civil Engg., M.Tech Structural Engineering and M.Tech Transportation Engg.

The HoD, Civil Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2020-21.

- The syllabus was highly appreciated because the university follows Choice-based Credit system and courses relevant to the advancement in Mechanical Engineering are put in the
- The members noted that the courses are mostly industry-oriented and also provide scope for competitive examination like UPSC, GATE etc. The members remarked that the syllabus is designed to enhance skill level of the students.
- The syllabus offers scope for gaining knowledge in other branches of engineering. Also offers scope to enhance on knowledge in AI, Machine learning, Nano Technology, Data science,
- The syllabus is best suited for each semester, but certain courses need to be modified. The syllabus is good but as compared to the content of syllabus, the credits are very less.





- The syllabus is quiet useful. There should be more practice subjects to increase student efficiency and skill.
- The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component. (Annexure A.)
- Discussion on modification of syllabus of Basket-5.
- The domain course should be taught in practice and project mode.
- The Board approved the changes suggested in the Hydraulics and Hydraulic machine, Disaster
- Management, Transportation Engg. And Water supply and sanitary engineering as per the latest Software and technology being used by the industry. List of existing courses where syllabus was revised in (Annexure B & C)

Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure D)

The HoD, Department of Civil Engg. extended sincere thanks to all members of the Board.

The meeting ended with a voteof thanks to the Chair.

Dean, SOET Dean, SOET Centurion University of Technology & Management Octions

Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050

06.19

HoD, CENTLIGHT & Management, BBSR







List of new courses added

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Disaster Preparedness & Planning management	Skill And Employability	2
2	Functional Planning & DPR	Skill And Employability	3
3	Site Supervision & Measurement Methods.	Skill And Employability	4
4	Tendering Process, Bidding Contract, Agreements & Arbitration.	Skill And Employability	3
5	Green Building Design	Skill And Employability	3
6	Barrier Free Design	Skill And Employability	2
7	Intelligent Building Design	Skill And Employability	2
8	3D Modelling and VR experience of Building	Skill And Employability	4
9	Geospatial Technology and its Application	Skill And Employability	5
10	Photogrammetry and its Application	Skill And Employability	4
11	Concrete Technology	Skill And Employability	2



Annexure-B



List of existing courses where	syllabus wa	s revised
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Basket/ Semester	Name of Course	No. of Modules/ Topics revised	Revised Modules/Topics (details)
IV	Pre-Fabricated Structures	1	One module has been added depending on the industry requirement
IV	Soil Mechanics	2	One module has been added depending on the industry requirement
IV	Transportation Engineering	2	One module has been added and another module is merged with slight change as per industry requirement
IV	Water supply & Waste water Management	1	One module has been added depending on the industry requirement
IV	Hydrology & Water Resources	1	One module has been added depending on the industry requirement
IV	Engineering Quality Control and Risk	1	One module has been added depending on the industry requirement
IV	Management in Construction Geotechnical Investigations	1	One module has been added depending on the industry requirement
IV	Repairs, Renovation and Rehabilitation of Structures	1	One module has been added depending on the industry requirement
IV	Software Based Project	1	One module has been added depending on the industry requirement
IV	Scheduling and Management Earthquake Resistant Design	1	One module has been added depending on the industry requirement
IV	Architectural Design	1	One module has been added depending on the industry requirement
IV	Remote Sensing & Digital Image	1	One module has been added depending on the industry requirement
IV	Processing Lidar Remote Sensing and its	1	One module has been added depending on the industry requirement
IV	Applications Smart City Planning	1	One module has been added depending on the industry requirement

Annexure-C



List of existing M.Tech courses where syllabus was revised

SI no	Name of Course	No. of Modules/T opics revised	Revised Modules/Topics (details)
1	Advanced Structural Analysis	1	One module has been added depending on the industry requirement
2	Structural Dynamics	1	One module has been added depending on the industry requirement
3	Theory of Elasticity & Plasticity	1	One module has been added depending on the industry requirement
4	Bridge Engineering	1	One module has been added depending on the industry requirement
5	Computer Graphics	1	One module has been added depending on the industry requirement
6	Finite Element Method	1	One module has been added depending on the industry requirement
7	Concrete Technology	1	One module has been added depending on the industry requirement
8	Structural Engineering Lab	1	One module has been added depending on the industry requirement
9	Renovation and retrofitting of green structures	1	One module has been added depending on the industry requirement
10	Soil Dynamics and Geotechnical Earthquake Engineering	1	One module has been added depending on the industry requirement
M Tech	Transportation Engineering		
1	Pavement Analysis and Design	1	One module has been added depending on the industry requirement
2	Highway Project formulation and Economics	1	One module has been added depending on the industry requirement
3	Traffic Safety	1	One module has been added depending on the industry requirement
4	Remote Sensing and GIS for Transportation Engineering	1	One module has been added depending on the industry requirement
5	Pavement Evaluation, Rehabilitation and Maintenance	1	One module has been added depending on the industry requirement
6	Highway Project formulation and Economics	1	One module has been added depending on the industry requirement





Annexure-D

List of Skill courses (Basket) approved

SI.	Course Title	Credit	(T+P+P)
No 1	Refraction Technology	3	0+2+1
2	Emergency Medical Technology	3	0+2+1
2	Medical Lab Technology	3	0+2+1
395177		3	0+2+1
4	Operating Theatre Technology	3	0+2+1
5	Radiology Technology	3	0+2+1
6	Phlebotomy Technology	3	0+2+1
7	First Aid Service	3	0+2+1
8	General Duty Assistance Service	3	0+2+1
9	X- ray Technology	3	0+2+1
10	Retail Sales	3	0÷2÷1
11	Basketball		0+2+1
12	Gym Fitness	3	
13	Swimming	3	0+2+1
14	Yoga & Meditation	3	0÷2÷1
15	Solar PV Installation	3	0+2+1
16	Solar Lighting Technology	3	0÷2÷1
17	Solar PV Microgrid System	3	0÷2÷1
18	Solar PV Driven Equipment O/M & Assembly	3	0+2+1
19	Solar Thermal Engineering	3	0÷2÷1

List of Domain courses approved

SI. No	Domain Course Title	Credit	(T+P+P)
1	Automobile Engineering	24	8+12+10
2	Operation and Maintenance of Electrical Grid System & Transformers	24	8+12+10

List of value-added courses approved

SI. No	Course Title	Hrs. of input
1	LSD-2	30
2	Conduct in daily Life-Insights from The Panchatantra	30
3	Human Rights	30
4	Renewable Energy	30
5	Data science & ML	30
6	Introduction to Nutraceuticals	30
7	Introduction to Tableau	30
8	Basics of Photography	30
9	Innovation Management	30





	UNIVERSITY	
10	Effective Writing	30
11	Indian Culture and History	30
12	Critical Thinking	30
13	Disability, Diversity and Development	30
14	Intellectual Property Rights	30
15	Emotional Intelligence	30
16	Home remedies for healthy living	30
17	Self-Management: Insights from Srimad Bhagavad Gita	30



Proceedings of board of studies in Cevil Engog Rept held on 2222 June 2019 atg Considered the syllabus basket. IV 4 V and following recommendations were made. Bauet-IV. CECC-0103 - Hidralice and Hydralic Madue. module - Internal momentin Equation Conly Introducty module - Inclume of Acy for - mode - 4 - Sudden Transition shind mentico mode-s, 405 - surfue pro Fly) d's nort etcp method. Disaster mangent. modele-3, THE- send chye to manmade limiter Estimation: Addition of few theory rectively Foundation T- Module of XILF should to be maid optimal module - I - Addition of liesuification, overall concept shuld be converse substratice derity in all irractices Trangporntin . modele 1, - Types of noor shad inknow module-6- To be shifted to module-2 ceefy subsennt changes. Wator surry modele - Design of Water supply system instead of majort one. Ins Siatios Module - 7 - Addition of Reserver Types, capacity etc. practice Port (B) addition of Estenation of a desires dis dypy the a swen poment. Ref. Bote. TodisitatinEn B.C. Junia.

10 central and to hand to have an the H 2018 at 24 Pomain -5 -) her Techical investigation. middle-6: Heleesing of Water Table Study in yeo Tehi ay Engs. -1 Totte of the correr project meneral project Shury mayement. Shit be chip. mately Interest manipping Equiling Cath & P 1. Dr. Gont). Vareer mahammood & bonoof 2206.2019 a. prot. profulla klow panela Pranda 3. prof. sagaring Panda 216/2019 4. prif. Kamaj Kn. Bartice Logio 6-0 I. Port. Rauss kun Jeag 500 92.0619 b. Josef. Mashont Nayare Transat MULLAR B BALLAR

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CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Engineering & Technology

Department of Civil Engineering

Date: 22/06/2019

MINUTES OF BOARD OF STUDIES MEETING held on 22/06/2019

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Civil Engineering was held on 22/06/2019 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the members:

1. Dr. Vazeer Mahmood, Professor, Dept of Civil Engg., Andhra University

2 Dr Siba Prasad Mishra, , Internal Expert

3 Prof. Prafulla Kumar Panda, Internal Expert

4 Prof. Sagarika Panda, Internal Expert

5 Prof. Kamal Kumar Barik, Internal Expert

6 Prof Rakesh Kumar Jena, Internal Expert

7 Prof Prashant Nayak, Internal Expert

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Civil Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 30/06/2018 were confirmed.

Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Tech, Civil Engg., M.Tech Structural Engineering and M.Tech Transportation Engg.

The HoD, Civil Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2020-21.

- The syllabus was highly appreciated because the university follows Choice-based Credit system and courses relevant to the advancement in Mechanical Engineering are put in the
- The members noted that the courses are mostly industry-oriented and also provide scope for competitive examination like UPSC, GATE etc. The members remarked that the syllabus is designed to enhance skill level of the students.
- The syllabus offers scope for gaining knowledge in other branches of engineering. Also offers scope to enhance on knowledge in AI, Machine learning, Nano Technology, Data science,
- The syllabus is best suited for each semester, but certain courses need to be modified. The syllabus is good but as compared to the content of syllabus, the credits are very less.





- The syllabus is quiet useful. There should be more practice subjects to increase student efficiency and skill.
- The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component. (Annexure A.)
- Discussion on modification of syllabus of Basket-5.
- The domain course should be taught in practice and project mode.
- The Board approved the changes suggested in the Hydraulics and Hydraulic machine, Disaster
- Management, Transportation Engg. And Water supply and sanitary engineering as per the latest Software and technology being used by the industry. List of existing courses where syllabus was revised in (Annexure B & C)

Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure D)

The HoD, Department of Civil Engg. extended sincere thanks to all members of the Board.

The meeting ended with a voteof thanks to the Chair.

Dean, SOET Dean, SOET Centurion University of Technology & Management Octions

Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050

06.19

HoD, CENTLIGHT & Management, BBSR







List of new courses added

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Disaster Preparedness & Planning management	Skill And Employability	2
2	Functional Planning & DPR	Skiii And Employaonity	
3	Site Supervision & Measurement Methods.	Skill And Employability	4
4	Tendering Process, Bidding Contract, Agreements & Arbitration.	ess, Skill And Employability	
5	Green Building Design	Skill And Employability	3
6	Barrier Free Design	Skill And Employability	2
7	Intelligent Building Design	Skill And Employability	2
8	3D Modelling and VR experience of Building	Skill And Employability	4
9	Geospatial Technology and its Application	chnology Skill And Employability	
10	Photogrammetry and its Application	Skill And Employability	
11	Concrete Technology	Skill And Employability	2



Annexure-B

List of existing courses where syllabus was revised

Basket/ Semester	Name of Course	No. of Modules/ Topics revised	Revised Modules/Topics (details)
IV	Pre-Fabricated Structures	1	One module has been added depending on the industry requirement
IV	Soil Mechanics	2	One module has been added depending on the industry requirement
IV	Transportation Engineering	2	One module has been added and another module is merged with slight change as per industry requirement
IV	Water supply & Waste water Management	1	One module has been added depending on the industry requirement
IV	Hydrology & Water Resources	1	One module has been added depending on the industry requirement
IV	Engineering Quality Control and Risk	1	One module has been added depending on the industry requirement
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IV	Software Based Project	1	One module has been added depending on the industry requirement
IV	Scheduling and Management Earthquake Resistant Design	1	One module has been added depending on the industry requirement
IV	Architectural Design	1	One module has been added depending on the industry requirement
IV	Remote Sensing & Digital Image	1	One module has been added depending on the industry requirement
IV	Processing Lidar Remote Sensing and its	1	One module has been added depending on the industry requirement
IV	Applications Smart City Planning	1	One module has been added depending on the industry requirement

enturior UNIVERSITY

Annexure-C



List of existing M.Tech courses where syllabus was revised

SI no	Name of Course	No. of Modules/T opics revised	Revised Modules/Topics (details)
1	Advanced Structural Analysis	1	One module has been added depending on the industry requirement
2	Structural Dynamics	1	One module has been added depending on the industry requirement
3	Theory of Elasticity & Plasticity	1	One module has been added depending on the industry requirement
4	Bridge Engineering	1	One module has been added depending on the industry requirement
5	Computer Graphics	1	One module has been added depending on the industry requirement
6	Finite Element Method	1	One module has been added depending on the industry requirement
7	Concrete Technology	1	One module has been added depending on the industry requirement
8	Structural Engineering Lab	1	One module has been added depending on the industry requirement
9	Renovation and retrofitting of green structures	1	One module has been added depending on the industry requirement
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M Tech	Transportation Engineering		
1	Pavement Analysis and Design	1	One module has been added depending on the industry requirement
2	Highway Project formulation and Economics	1	One module has been added depending on the industry requirement
3	Traffic Safety	1	One module has been added depending on the industry requirement
4	Remote Sensing and GIS for Transportation Engineering	1	One module has been added depending on the industry requirement
5	Pavement Evaluation, Rehabilitation and Maintenance	1	One module has been added depending on the industry requirement
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Annexure-D

List of Skill courses (Basket) approved

SI.	Course Title	Credit	(T+P+P)
No 1	Refraction Technology	3	0+2+1
2	Emergency Medical Technology	3	0+2+1
2	Medical Lab Technology	3	0+2+1
395177		3	0+2+1
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9	X- ray Technology	3	0+2+1
10	Retail Sales	3	0÷2÷1
11	Basketball		0+2+1
12	Gym Fitness	3	
13	Swimming	3	0+2+1
14	Yoga & Meditation	3	0÷2÷1
15	Solar PV Installation	3	0+2+1
16	Solar Lighting Technology	3	0÷2÷1
17	Solar PV Microgrid System	3	0÷2÷1
18	Solar PV Driven Equipment O/M & Assembly	3	0+2+1
19	Solar Thermal Engineering	3	0÷2÷1

List of Domain courses approved

SI. No	Domain Course Title	Credit	(T+P+P)
1	Automobile Engineering	24	8+12+10
2	Operation and Maintenance of Electrical Grid System & Transformers	24	8+12+10

List of value-added courses approved

SI. No	Course Title	Hrs. of input
1	LSD-2	30
2	Conduct in daily Life-Insights from The Panchatantra	30
3	Human Rights	30
4	Renewable Energy	30
5	Data science & ML	30
6	Introduction to Nutraceuticals	30
7	Introduction to Tableau	30
8	Basics of Photography	30
9	Innovation Management	30





	UNIVERSITY	
10	Effective Writing	30
11	Indian Culture and History	30
12	Critical Thinking	30
13	Disability, Diversity and Development	30
14	Intellectual Property Rights	30
15	Emotional Intelligence	30
16	Home remedies for healthy living	30
17	Self-Management: Insights from Srimad Bhagavad Gita	30



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CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Engineering & Technology

Department of Electrical & Electronics Engineering

Date: 22.06.2019

MINUTES OF BOARD OF STUDIES MEETING held on 22.06.2019

Venue: Room No. - 104, CUTM. Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of EEE was held on 22.06.2019 at 11 a.m. in the Room No.-104, CUTM Bhubaneswar. The following are the Board members:

- 1. Prof. P.K. Pradhan, Ex-Director -Commerce, GRIDCO (Industry Expert)
- 2. Prof. P.K.Hota, VSSUT, Burla (Academician)
- 3. Prof. Jagannath Padhi, Director. CIT (Internal Expert)
- 4. Prof. Abhinna Chandra Biswal. Professor, CIT
- 5. Prof. Amit Kumar Sahoo, HoD, CIT (Faculty)
- 6. Prof. Manoj Samal. HoD. CIT (Faculty)

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of EEE presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 30.06.2018 were confirmed.

Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Tech, EEE.

The HoD, EEE gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this , the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2019-20.

- 1. Renaming of few subjects were suggested as below
 - a) Power System Market and Regulation suggested to be renamed as Power System Market, Acts and Regulation (in Basket 5)
 - b) The domain name Design, fabrication and repair of Transformer up to 33kV should be renamed as Design, Fabrication and Repair of Distribution Transformer (Basket 5)
- 2. One new course Soft Computing is to be added in open basket courses. The pre-requisite for this paper will be 'Soft Computing I'. The existing Soft Computing paper is to be renamed as 'Soft Computing I'
- 3. More FDPs should be organized, particularly in the domain areas.
- 4. The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component. List of new courses added in (Annexure A.)
- 5. The Board approved the changes suggested in the Distributed Generation & Microgrid, Power System Protection as per the latest Software and technology being used by the industry. Many changes were incorporated in M. Tech, power System & Control Syllabus. List of existing courses where syllabus was changed in (Amexure B)





Discussion and approval on any revision required in the Curriculum of M.Tech, Power System & Control.

- The M.Tech Power System & Control Syllabus was revised completely to make it as per industrial requirements..
- Contents of the following courses got completely changed in M. Lech Power System & Control Syllabus as per industry requirement such as Microcontroller Application with PLC, SCADA Compatible with all PLC, Advanced Electrical in Automation, Sensors and VFD Interface to PLC and SCADA, SCADA Compatible with Fixed Brand of PLC, Distributed Control System, Power System Monitoring by HMI, POWER SYSTEM SECURITY, DIGITAL SIGNAL PROCESSING APPLICATIONS IN POWER SYSTEM PROTECTION.
- It was decided to offer the M.Tech. program in an industry integrated platform focussing on process automation so as to enable working professionals to take the course and enable the regular students to focus on industry related project while doing thesis work.

Agenda 3: Inclusion of courses on life skills and value addition

Students were asked to take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. Amexure C

Agenda 4:

GATE Training was introduced in the timetable for final year students to encourage students to go for higher studies and to compete for PSU jobs.

The HoD. Department of EEE extended sincere thanks to all members of the Board.

The meeting ended with a voteof thanks to the Chair.

Dean. SoET

Dean, SOET Centurion University of Technology & Manag----Centu Odisha

Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Coisha-752050

HoD. FEE Department HO.D (EEE) CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT





Annexure-A

Sl. No.	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Electrical Workshop Practice	Skill development	2
2	Basic Electrical Engineering	Skill development	
3	Electrical Machines	Skill development	3
4	Introduction to automation	Skill development	3
5	Transmission & Distribution	Skill development	3
6	Power System Operation & Control	Skill development	3
7	Distributed Generation & Micro Grid	Skill development	
8	Soft Computing Techniques - I	Skill development	2
9	Electrical Circuit Drawing (Using Auto CAD)	Skill development	2
10	Network Theory	Skill development	3
11	Electronic Measurement & Instrumentation	Skill development	3
12	Linear Integrated Circuits & Application	Employability	3
13	Power Electronics	Skill development	
14	Micro Controllers for Industrial Application (PIC)	Skill development	4



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15	Control System	Skill development	5
16	Microprocessor and its Interfacing	Skill development	2
17	Digital Electronic Circuits	Employability	4
18	Digital Signal Processing	Employability	4
19	General PLC	Skill development	2
20	Basic Electrical (Automation based) and Panel Designing	Skill development	2
21	Supervisory Control and Data Acquisition (SCADA)	Skill development	3
22	Micro Range Programmable Logic Controller	Skill development	3
23	Small Range Programmable Logic Controller	Skill development	3
24	Medium Range Programmable Logic Controller	Skill development	3
25	Human Machine Interface (HMI)	Skill development	2
26	Variable Frequency Drive	Skill development	2
27	Project	Skill development	6
28	Internship	Skill development	4
29	Modern Transmission and Distribution System	Skill development	3



		Centurion University	
30	Operation and Testing of Power and Distribution Transformer	Skill development	3
31	System Protection and Auxiliaries	Skill development	3
32	Construction of HT and LT lines and Cables	Skill development	3
33	Safety Practice and First Aid	Skill development	2
34	Electrical System Layout and Drawing	Skill development	2
35	Power System Market, Act and Regulations	Employability	4
36	Project	Skill development	6
37	Internship	Employability	4
38	Design of Transformer Core and Winding	Skill development	4
39	Manufacturing of Transformer HT and LT Winding	Skill development	2
40	Manufacturing of Transformer Tank and Accessories	Skill development	2
41	Testing and Commissioning	Skill development	5
42	Safety and Protection	Skill development	2
43	Transformer Repair and Maintenance	Skill development	5
44	Project	Skill development	6
45	Internship	Employability	4
46	Renewable Energy Sources and Technology	Skill development	3



			Centur (on	
	4	17 Solar Photovoltaic Technology	Skill dex elopment	3
	4	8 Solar Thermal Technology	Skill development	ĩ
	49	g Solar Systems for Buildings	Skill development	5
	50	Solar Power Plant	Skill development	5
	51	Decentralized and Smart Power Grids	Skill development	5
	52	Solar Photovoltaic Laboratory	Skill development	2
1	53	Solar Thermal Laborator	Skill development	2
5	,4	Project	Skill development	6
5	5	Internship	Skill development	÷.
56	5	Power System Generation	Skill development	3
57		Electromagnetic Theory	Employability	3
58		Power Quality and FACTS	Skill development	3
59	1.10	Soft Computing Techniques - I	Skill development	3
60	В	Basic Electrical Maintenance	Skill development	3
51	A	utomotive Electrician	Skill development	3
2	A	dvanced Power Electronics	Skill development	5
3	Ele	ectrical Drives	Skill development	5
3	Ad	vance Control System	Skill development	5
,		trumentation and easurement	Skill development	3





Annexure-B

List of existing courses where syllabus was changed (B.Tech.)

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
IV	Electronic Measurement & Instrumentation	7	Module I : Basics of Measurements Module II: Temperature measurement Module III : Pressure Measurement Module IV: Displacement measurement Module V: Converters and Flow measurement Module VI: Signal Analyzers Module VII: Oscilloscopes

List of existing courses where syllabus was changed (M.Tech.)

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
1 st Semester	<i>Microcontroller</i> <i>Application</i> <i>with PLC</i>	7	Module-1: IntroductionModule- Module-II: Architecture ofControllers Module-III: Addressing Module-IV: HardwareLinking Module-V: Programming Basics Module-6: Timers,Counter, Compare Module-7:DifferentOperational Blocks
1 st Semester	SCADA-	7	<u>Module-1</u> Introduction ofScada



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	Compatible with all PLC		<u>Module-2</u> <i>Introduction toIntouch</i> <u>Module-3</u> <i>Toolbars</i> <u>Module-4</u> <i>Wizards</i> <u>Module-5</u> <i>In touch SCADAFeatures-1</i> <u>Module-6</u> <i>In touch SCADAFeatures-2</i> <u>Module-7</u> <i>In touch SCADA</i> <i>Features-3</i>
1 st Semester	Advanced Electrical in Automation	7	<u>Module-1</u> <u>Introduction</u> <u>Module-2</u> <u>Power Supply</u> <u>Module-3</u> <u>Basic Industrial Switches</u> & Sensors <u>Module-4</u> <u>Relay</u> <u>Module-5</u> <u>Contactor</u> <u>Module-6</u> <u>Panel Designing</u> <u>Module-7</u> <u>Starter Wiring</u>
1 st Semester	Sensors and VFD Interface to PLC and SCADA	1	Module-1 Interface of different sensors (Temp, CT, VT, OPTO) and DRIVE (VFD) to PLC& SCADA.
2 nd Semester	SCADA- Compatible with Fixed Brand of PLC	7	<u>Module-1</u> Introduction of SCADA <u>Module-11</u> Introduction toRs-View 32 <u>Module-111</u> <u>Toolbars</u> <u>Module-1V</u> Wizards <u>Module-V</u> <u>Rs-View 32SCADA</u> Features <u>Module-V1</u> <u>Rs-View 32</u> <u>SCADA Features</u> <u>Module-V11</u> <u>RS-View 32</u> <u>SCADA Features</u>
2 nd Semester	Distributed Control System	7	<u>Module-1</u> Introduction of DCS <u>Module-2</u>



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		Centurion	
		3	Introduction toDCS 800F (ABB) <u>Module-3</u> <u>Toolbars</u> <u>Module-4</u> <u>EngineeringStation</u> <u>Module-5</u> <u>Process Station</u> <u>Module-6</u> <u>OperatorsStation</u> <u>Module-7</u> <u>Programming</u> and SCADA
2 nd Semester	Power System Monitoring by HMI	7	<u>Module-1</u> <u>Introduction</u> <u>Module-2</u> <u>Application Development</u> <u>Module-3</u> <u>Working</u> onSoftware <u>Module-4</u> <u>Control Window</u> <u>Module-5</u> <u>Property WindowBasics</u> <u>Module-6</u> <u>Designing</u> ofApplication <u>Module-7</u> <u>DifferentDynamicDisplays</u>
2 nd Semester	POWER SYSTEM SECURITY	3	<u>Module-1</u> Introduction toPower System Operations inPower SystemSecurity State Estimation Optimal Power Flow <u>Module-III</u> Security Assessment <u>Module-III</u> Security EnhancementRecent - Techniques
2 nd Semester	DIGITAL SIGNAL PROCESSING APPLICATIONS IN POWER SYSTEM PROTECTION	3	Module-IAbnormal States in Power Systemsand Criteria for Their Recognition Hardware andFunctional Development of Protection Devices and Systems Fundamentals of System Analysis and Synthesis Infinite Impulse Response (IIR) Filters Finite Impulse Response (FIR) Filters Module-11 Measurement Algorithms for Digital ProtectionCharacteristic of Measurement ofCriterion Valuesand AdaptiveAlgorithms Decision Makingin Protective Relays Application of Artificial Neural



Centurion
Network <u>Module-111</u> Genetic and Evolutionary Algorithms forPower System Protection Expert SystemsArtificial Intelligence: Summary and
Intelligence: Summary and Hybrid Schemes

Annexure-C

SI. No.	Course Title	Credit
1	Refraction Technology	4
2	Emergency Medical Technology	4
3	Medical Lab Technology	4
4	Operating Theatre Technology	4
5	Radiology Technology	4
6	Phlebotomy Technology	4
7	7 First Aid Service	
8	General Duty Assistance Service	
9	X- ray Technology	4
10	Retail Sales	
11	Basketball	
12		4
13	Gym Fitness Swimming	4
14	Yoga & Meditation	4
15	Solar PV Installation	4
16	Solar Lighting Technology	4
17	Solar PV Microgrid System	4
18	Solar PV Driven Equipment O/M & Assembly	4



19 | Solar Thermal Engineering

List of Domain courses approved

CI.	Domain Course Title	Credit	(T+P+P)
si. No		24	6+14+10
1	Fundamentals of industrial Automation	26	2+16+8
2	Design, Fabrication and Repair of transformer upto 33Kv level Operation and Maintenance of Transmission and Distribution	30	12-12-6
5	Systems	1	

List of value added courses approved

		Hrs. of input
SI.	Course Title	
No	t and appropriate	30 Hours
1	The Mind-Its mysteries and conquest	30 Hours
2	Understanding Personality-The Bhagavad	30 Hours
-	Cita Parspective	
3	Understanding Leadership - The Valmiki	30 Hours
5	Ramayana Perspective	30 Hours
4	Comple Farming	30 Hours
5	Urban Kitchen gardens using Hydropomes	30 Hours
6	Introduction to PowerBI	30 Hours
7	Introduction to Python	30 Hours
8	Food & Nutrition	30 Hours
9	Behavioural Economics	30 Hours
10	Nutrition for Healthy Living	30 Hours
10	a fliat Resolution	30 Hours
	Conder issues in Contemporary times	30 Hours
12	Natural Resource Management	30 Hours
13	Bural Livelihood and Promotion	30 Hours
14	Leadership in Organizations	
15	Introduction to Qualitative Research	30 Hours
16	Methodology	30 Hours
	Knowledge Management	30 Hours
17	Professional Etiquette	50 1100.5
18	Florestonet	



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SI. No	Name	Designation/ Place	Signature
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3	Dr. P. K. Hota	Popesson, EE USSUT, Bunka	Bunon 2216/19
5- 4	Prop. Jagannath Padhi	Director, CIT	Burroh 19 1 pl - 22/6/19
5	Mr. Amit Ku. Sahoo		22/06/119
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CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Paramedics and Allied Health Sciences

Date: 22/06/2019

MINUTES OF BOARD OF STUDIES MEETING held on 22/06/2019

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 AM

The Board of Studies (BoS) meeting of School of Paramedics and Allied Health Sciences was held on 22/06/2019 at 11 AM in the Board Room, CUTM Bhubaneswar.

The following members were present:

- 1. Dr. Debi Prasad Rath, M.D. Pathology
- 2. Dr. Debasish Sahoo, M.D. Microbiology
- 3. Dr. Amalendu Choudhary, Hi-Tech Medical College and Hospital
- 4. Prof. Sunil Kumar Jha, Dean SoPAHS
- 5. Dr. Soumya Jal, HoD SoPAHS
- 6. Ms. Sonali Dash, Faculty SoPAHS

All the members were welcomed to the session by the Chairperson and were briefed regarding the purpose of the meeting. Thereafter, the Dean of SoPAHS presented on the achievements, improvements of the department in terms of academics and infrastructure.

Following are the programs offered by SoPAHS:

MSc Medical Laboratory Technology (MSc MLT) MSc Applied and Clinical Microbiology (MSc CMB) BSc Medical Laboratory Technology (BSc MLT) BSc Clinical Microbiology (BSc CMB) BSc Medical Radiation Technology (BSc MRT) BSc Optometry (BSc Optom)

Agenda of the meeting:

Agenda 1: The minutes of the last meeting of the BoS held on 30.06.2018 were confirmed.

Agenda 2: Discussion and approval on the content of syllabus for various courses of SoPAHS.

At first, the Dean of the school presented the feedback received from several stakeholders, on the curriculum of its various departments. With respect to the feedback received from the stakeholders, the committee discussed and approved for incorporation/ modifications in the curriculum for the Academic session 2019-18.





- The nomenclature for BSc Radiology and Imaging Technology was changed to BSc Medical Radiation Technology (BSc MRT) based on the requirement of the DMET council, Odisha.
- The structure and content for the courses of BSc Medical Radiation Technology, BSc
 Optometry were discussed and approved without any further revision.
- Detometry were discussed and approved to introduce the following programmes in SoPAHS:
 The committee approved to introduce the following programmes in SoPAHS:
- The committee approved to had Bachelor of Physiotherapy;
 BSc MLT (Work Integrated);
 BSc Anaesthesia Technology;
 BSc OT-AT.
- Based on the feedback received from the stakeholders to incorporate more practical aspects,
 Based on the feedback received from the stakeholders to incorporate more practical aspects, the committee approved modifications into the curriculum of the MLT; MSc MLT; BSc CMB; MSc CMB.
- Clinical Pathology was incorporated to the syllabus of MLT and CMB departments, based on the industrial need.
- It was also suggested to incorporate molecular diagnostic techniques into the curriculum of MLT and CMB.
- The committee discussed to emphasize on the research-based learning of the students, and therefore, Mini project was incorporated into the curriculum.
- The courses were structured to enhance the skill and industry-based learning and to improve scopes for competitive examinations.
- New courses added into the curriculum are provided in Annexure A.
- Modifications in syllabus are provided in Annexure B.

Agenda 3: Inclusion of courses on Domain, life skills and value addition

For their overall development and wellbeing of the students, it was advised that students enroll in the various life skills and value-adding courses that are offered by the university. The Board members agreed and gave their approval to the same.

Deatials of Domain courses, life skill and value added courses introduced are mentioned in *Annexure C*.

The Dean, SoPAHS extended sincere thanks to all the members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dea

Prof. Surjil Kumar Jha DEAN DEAN isod of Paramedics & Allied Health Sciences sity of Technology & Management Odisha-752050

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Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050

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Annexure A

Lis SL No		Type (Skill/ Employability/ Entrepreneurship)	Credit
	MSe MUT		
1.	Clinical Pathology lab	Entrepreneurship	2
2,	Microbiology lab	Entrepreneurship	2
3.	Immunology lab	Employability	2
4.	Biochemistry lab	Employability	2
5.	Histopathology lab	Employability	2
6.	Mini Project	Employability	2
	MSe CMB		-
1.	Clinical Pathology	Entrepreneurship	4
2.	Parasitology and Mycology lab	Employability	2
3.	Immunology lab	Employability	
4.	Histopathology lab	Employability	2
5.	Biochemistry lab	Employability	2
6.	Mini Project	Employability	
	BSc MLT		2
1.	Clinical Pathology lab	Entrepreneurship	2
2.	Microbiology lab	Entrepreneurship	
3.	Molecular Biology	Entrepreneurship	4
4.	Immunology lab	Employability	2
5.	Histopathology lab	Employability	2
5.	Biochemistry lab	Employability	
1.	Parasitology lab	Employability	2
:	Mycology and Virology lab	Employability	2
	Mini Project	Employability	2
	BSc CMB		
	Clinical Pathology lab	Entrepreneurship	2
·	Microbiology lab	Entrepreneurship	2
	Virology and Mycology lab	Employability	2
	Analytical Biochemistry	Employability	4
	Analytical Biochemistry	Employability	2
	Industrial Microbiology lab	Employability	2
	Public Health Microbiology lab	Employability	2
1	Biochemistry lab	Employability	2
	Diagnostic Bacteriology lab	Employability	2
1	Mini Project	Employaonity	21202 D





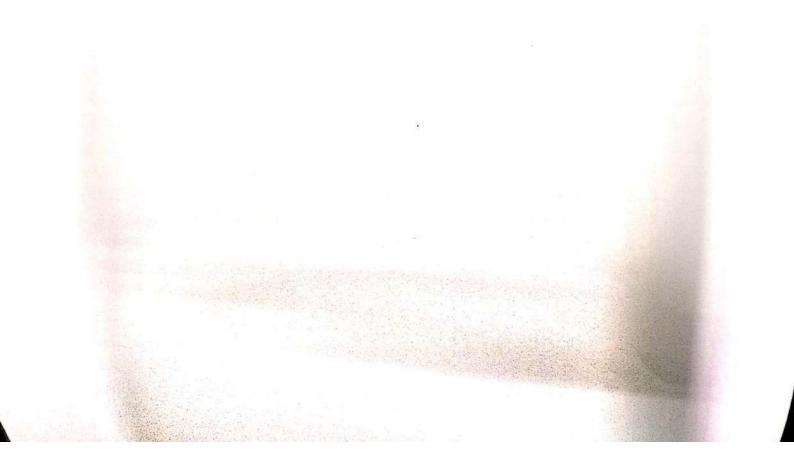
List of existing courses where syllabus was changed

Basket/ Semeste r	Name of Course	No. of Modules/Topic s revised	Revised Modules/Topics (details)
MSc			
MLT	Research Methodology	3	Credits modified from 4 to 3 credits based on experts' suggestion
	Immunology and Parasitology	1	Cells and organs of Immune system
	Project	1	Credits modified to 10 credits based on experts suggestion
	Research Methodology	3	Credits modified from 4 to 3 credits based on experts' suggestion
	Immunology and Parasitology	1	Cells and organs of Immune system
MSc			
СМВ	Research Methodology	3	Credits modified from 4 to 3 credits based on experts' suggestion
	Project	1	Credits modified to 10 credits based on experts suggestions
	Internship	1	Credits modified to 10 credits based on experts suggestion
BSc			
MLT	Analytical Biochemistry	2	Electrophoresis and Chromatography was included based on industry requirement
	Basic Computer and Information	3	Credits modified from 4 to 2 credits based on experts' suggestion
	Science Introduction to Quality and	3	· Credits modified from 4 to 3 credits based on experts'
	Patient Safety Medical Law and Ethics	3	Credits modified from 4 to 3 credits based on experts' suggestion
	Research Methodology	3	Credits modified from 4 to 3 credits based on experts'
	Project	1	Credits modified to 10 credits based on experts suggestion
	Internship	1	Credits modified to 10 credits based on experts suggestion
BSc CMB			





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	Public Health Microbiology	3	Credits modified from 4 to 3 credits based on experts' suggestion	
	Industrial Microbiology	3	Credits modified from 4 to 3 credits based on experts' suggestion	
	Basic Computer and Information Science		Credits modified from 4 to 2 credits based on experts' suggestion	
	Epidemiology	2	Credits modified from 4 to 2 credits based on experts' suggestion	
	Diagnostic Bacteriology	3	Credits modified from 4 to 3 credits based on experts' suggestion	
	Medical Law and Ethics	3	Credits modified from 4 to 3 credits based on experts' suggestion	
	Research Methodology	3	Credits modified from 4 to 3 credits based on experts' suggestion	
	Project	1	Credits modified to 10 credits based on experts suggestion	
	Internship	1	Credits modified to 10 credits based on experts suggestion	







Annexure C

	of Domain courses approved Domain Course Title	Credit	(T+P+P)
SI. No	Domain Course Time	28	(14+8+6)
	Microbiology	28	(12+10+6)
	Medical Lab Technician	28	(14+10+6)
1	Radiology and Imaging Technology	50	

List of Skill courses (Basket) approved

List	of Skill courses (Basket) approved	Credit	(T+P+P)
SI.	Course Title	Crean	
No		4	0+3+1
1.	Ophthalmic Lens and spectacle manufacturing Techniques		0+3+1
	Medical Diagnostic Techniques	4	
2.	Medical Diagnostic rectiniques	4	0+3+1
3.	Refraction Technology	4	0+3+1
4.	Emergency Medical Technology	4	0+3+1
5.	Medical Lab Technology	4	0+3+1
6.	Operating Theatre Technology	4	0+3+1
7.	Radiology Technology	4	0+3+1
8.	Phlebotomy Technology		0+3+1
9.	First Aid Service	4	0+3+1
10.	General Duty Assistance Service	4	0+3+1
11.	X- ray Technology	4	
1.			

. Course Title	
	30 hrs
Human Rights (FCMG0115) Gender Issues in Development (FCMG0401)	30 hrs



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CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Paramedics and Allied Health Sciences

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The meeting ended with a vote of thanks to the Chair.

Dea

Prof. Surjil Kumar Jha DEAN DEAN isod of Paramedics & Allied Health Sciences sity of Technology & Management Odisha-752050

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Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050

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Annexure A

Lis SL No		Type (Skill/ Employability/ Entrepreneurship)	Credit
	MSe MUT		
1.	Clinical Pathology lab	Entrepreneurship	2
2,	Microbiology lab	Entrepreneurship	2
3.	Immunology lab	Employability	2
4.	Biochemistry lab	Employability	2
5.	Histopathology lab	Employability	2
6.	Mini Project	Employability	2
	MSc CMB		
1.	Clinical Pathology	Entrepreneurship	4
2.	Parasitology and Mycology lab	Employability	2
3.	Immunology lab	Employability	2
4.	Histopathology lab	Employability	2
5.	Biochemistry lab	Employability	2
6.	Mini Project	Employability	- 2
	BSc MLT	P	2
1.	Clinical Pathology lab	Entrepreneurship	2
2.	Microbiology lab	Entrepreneurship	4
3.	Molecular Biology	Entrepreneurship Employability	2
ł.	Immunology lab	Employability	2
5.	Histopathology lab	Employability	2
5.	Biochemistry lab	Employability	2
	Parasitology lab	Employability	2
	Mycology and Virology lab	Employability	2
	Mini Project	Employability	
	BSc CMB	E township	2
	Clinical Pathology lab	Entrepreneurship	2
	Microbiology lab	Entrepreneurship	2
-	Virology and Mycology lab	Employability	4
	Analytical Biochemistry	Employability	2
	Industrial Microbiology lab	Employability	2
	Public Health Microbiology lab	Employability	
	Biochemistry lab	Employability	2
	Diagnostic Bacteriology lab	Employability	2
	Mini Project	Employability	2





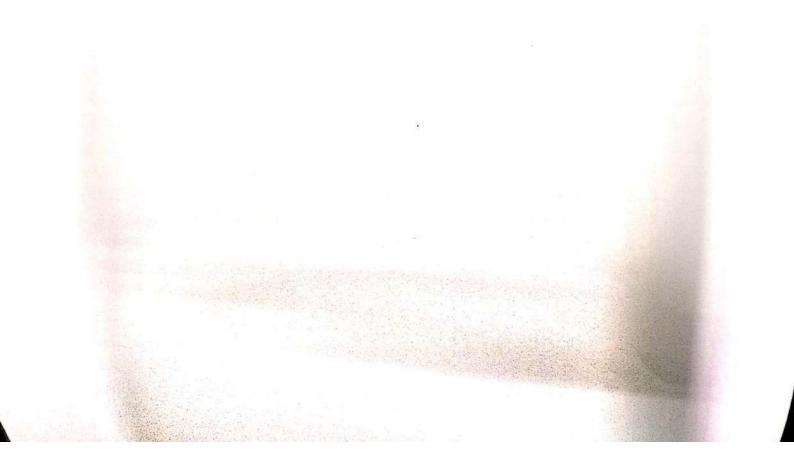
List of existing courses where syllabus was changed

Basket/ Semeste r	Name of Course	No. of Modules/Topic s revised	Revised Modules/Topics (details)
MSc			
MLT	Research Methodology	3	Credits modified from 4 to 3 credits based on experts' suggestion
	Immunology and Parasitology	1	Cells and organs of Immune system
	Project	1	Credits modified to 10 credits based on experts suggestion
	Research Methodology	3	Credits modified from 4 to 3 credits based on experts' suggestion
	Immunology and Parasitology	1	Cells and organs of Immune system
MSc			
СМВ	Research Methodology	3	Credits modified from 4 to 3 credits based on experts' suggestion
	Project	1	Credits modified to 10 credits based on experts suggestions
	Internship	1	Credits modified to 10 credits based on experts suggestion
BSc			
MLT	Analytical Biochemistry	2	Electrophoresis and Chromatography was included based on industry requirement
	Basic Computer and Information	3	Credits modified from 4 to 2 credits based on experts' suggestion
	Science Introduction to Quality and	3	· Credits modified from 4 to 3 credits based on experts'
	Patient Safety Medical Law and Ethics	3	Credits modified from 4 to 3 credits based on experts' suggestion
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	Project	1	Credits modified to 10 credits based on experts suggestion
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BSc CMB			





	L	NIVERSITY
Public Health Microbiology	3	Credits modified from 4 to 3 credits based on experts' suggestion
Industrial Microbiology	3	Credits modified from 4 to 3 credits based on experts' suggestion
Basic Computer and Information Science		Credits modified from 4 to 2 credits based on experts' suggestion
Epidemiology	2	Credits modified from 4 to 2 credits based on experts' suggestion
Diagnostic Bacteriology	3	Credits modified from 4 to 3 credits based on experts' suggestion
Medical Law and Ethics	3	Credits modified from 4 to 3 credits based on experts' suggestion
Research Methodology	3	Credits modified from 4 to 3 credits based on experts' suggestion
Project	1	Credits modified to 10 credits based on experts suggestion
Internship	1	Credits modified to 10 credits based on experts suggestion







Annexure C

	of Domain courses approved Domain Course Title	Credit	(T+P+P)
SI. No	Domain Course Time	28	(14+8+6)
	Microbiology	28	(12+10+6)
	Medical Lab Technician	28	(14+10+6)
1	Radiology and Imaging Technology	50	

List of Skill courses (Basket) approved

List	of Skill courses (Basket) approved	Credit	(T+P+P)
SI.	Course Title	Crean	
No		4	0+3+1
1.	Ophthalmic Lens and spectacle manufacturing Techniques		0+3+1
	Medical Diagnostic Techniques	4	
2.	Medical Diagnostic rectiniques	4	0+3+1
3.	Refraction Technology	4	0+3+1
4.	Emergency Medical Technology	4	0+3+1
5.	Medical Lab Technology	4	0+3+1
6.	Operating Theatre Technology	4	0+3+1
7.	Radiology Technology	4	0+3+1
8.	Phlebotomy Technology		0+3+1
9.	First Aid Service	4	0+3+1
10.	General Duty Assistance Service	4	0+3+1
11.	X- ray Technology	4	
1.			

. Course Title	
	30 hrs
Human Rights (FCMG0115) Gender Issues in Development (FCMG0401)	30 hrs



19c SIGNATURE NAMEROS) MONNY, SPLACE SLNO M-St, KapilPrasad Phaneij Bhiontarge, BBSR. Dr. Debe Prosad Rall-Qary 2916 \$ m Afla BLAGETA, BBSR-3 Dr. Debreich Sahn 2. Hitechneelical willege mall 3 Dr. Amalenalu Chowelhe 9276/19 S. K. Tha 4 Dem SPAHS 226 19 Dr. Loumya Jal HOD, SPAHS 5. Visiting faculty SPAHS Somale 6. Sonafi Dach 22 6 19 ANTINESS LATU and with the



CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Paramedics and Allied Health Sciences

Date: 22/06/2019

MINUTES OF BOARD OF STUDIES MEETING held on 22/06/2019

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 AM

The Board of Studies (BoS) meeting of School of Paramedics and Allied Health Sciences was held on 22/06/2019 at 11 AM in the Board Room, CUTM Bhubaneswar.

The following members were present:

- 1. Dr. Debi Prasad Rath, M.D. Pathology
- 2. Dr. Debasish Sahoo, M.D. Microbiology
- 3. Dr. Amalendu Choudhary, Hi-Tech Medical College and Hospital
- 4. Prof. Sunil Kumar Jha, Dean SoPAHS
- 5. Dr. Soumya Jal, HoD SoPAHS
- 6. Ms. Sonali Dash, Faculty SoPAHS

All the members were welcomed to the session by the Chairperson and were briefed regarding the purpose of the meeting. Thereafter, the Dean of SoPAHS presented on the achievements, improvements of the department in terms of academics and infrastructure.

Following are the programs offered by SoPAHS:

MSc Medical Laboratory Technology (MSc MLT) MSc Applied and Clinical Microbiology (MSc CMB) BSc Medical Laboratory Technology (BSc MLT) BSc Clinical Microbiology (BSc CMB) BSc Medical Radiation Technology (BSc MRT) BSc Optometry (BSc Optom)

Agenda of the meeting:

Agenda 1: The minutes of the last meeting of the BoS held on 30.06.2018 were confirmed.

Agenda 2: Discussion and approval on the content of syllabus for various courses of SoPAHS.

At first, the Dean of the school presented the feedback received from several stakeholders, on the curriculum of its various departments. With respect to the feedback received from the stakeholders, the committee discussed and approved for incorporation/ modifications in the curriculum for the Academic session 2019-18.





- The nomenclature for BSc Radiology and Imaging Technology was changed to BSc Medical Radiation Technology (BSc MRT) based on the requirement of the DMET council, Odisha.
- The structure and content for the courses of BSc Medical Radiation Technology, BSc
 Optometry were discussed and approved without any further revision.
- The committee approved to introduce the following programmes in SoPAHS:
- The committee approved to had Bachelor of Physiotherapy;
 BSc MLT (Work Integrated);
 BSc Anaesthesia Technology;
 BSc OT-AT.
- Based on the feedback received from the stakeholders to incorporate more practical aspects,
 Based on the feedback received from the stakeholders to incorporate more practical aspects, the committee approved modifications into the curriculum of the MLT; MSc MLT; BSc CMB; MSc CMB.
- Clinical Pathology was incorporated to the syllabus of MLT and CMB departments, based on the industrial need.
- It was also suggested to incorporate molecular diagnostic techniques into the curriculum of MLT and CMB.
- The committee discussed to emphasize on the research-based learning of the students, and therefore, Mini project was incorporated into the curriculum.
- The courses were structured to enhance the skill and industry-based learning and to improve scopes for competitive examinations.
- New courses added into the curriculum are provided in Annexure A.
- Modifications in syllabus are provided in Annexure B.

Agenda 3: Inclusion of courses on Domain, life skills and value addition

For their overall development and wellbeing of the students, it was advised that students enroll in the various life skills and value-adding courses that are offered by the university. The Board members agreed and gave their approval to the same.

Deatials of Domain courses, life skill and value added courses introduced are mentioned in *Annexure C*.

The Dean, SoPAHS extended sincere thanks to all the members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dea

Prof. Surjil Kumar Jha DEAN DEAN isod of Paramedics & Allied Health Sciences sity of Technology & Management Odisha-752050

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Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050

HOB: SEARVA HS School of Parametrics & Allise Health Sciences Comprise University of Technology & Menagement Remachand sport Bhubaraswer - 752650





Annexure A

Lis SL No	t of new courses added Course Title	Type (Skill/ Employability/ Entrepreneurship)	Credit
	MSe MUT		
1.	Clinical Pathology lab	Entrepreneurship	2
2,	Microbiology lab	Entrepreneurship	2
3.	Immunology lab	Employability	2
4.	Biochemistry lab	Employability	2
5.	Histopathology lab	Employability	2
6.	Mini Project	Employability	2
	MSc CMB		
1.	Clinical Pathology	Entrepreneurship	4
2.	Parasitology and Mycology lab	Employability	2
3.	Immunology lab	Employability	2
4.	Histopathology lab	Employability	2
5.	Biochemistry lab	Employability	2
6.	Mini Project	Employability	- 4
	BSc MLT	Entrepreneurship	2
1.	Clinical Pathology lab	Entrepreneurship	2
2.	Microbiology lab	Entrepreneurship	4
3.	Molecular Biology	Employability	2
ł.	Immunology lab	Employability	2
i.	Histopathology lab	Employability	2
.	Biochemistry lab	Employability	2
	Parasitology lab	Employability	2
	Mycology and Virology lab	Employability	2
.	Mini Project	Employaonay	
	BSc CMB	Entrepreneurship	2
	Clinical Pathology lab	Entrepreneurship	2
	Microbiology lab	Employability	2
	Virology and Mycology lab		4
	Analytical Biochemistry	Employability	2
	Industrial Microbiology lab	Employability	2
1	Public Health Microbiology lab	Employability	2
	Biochemistry lab	Employability	2
-1-	Diagnostic Bacteriology lab	Employability	
	Mini Project	Employability	2





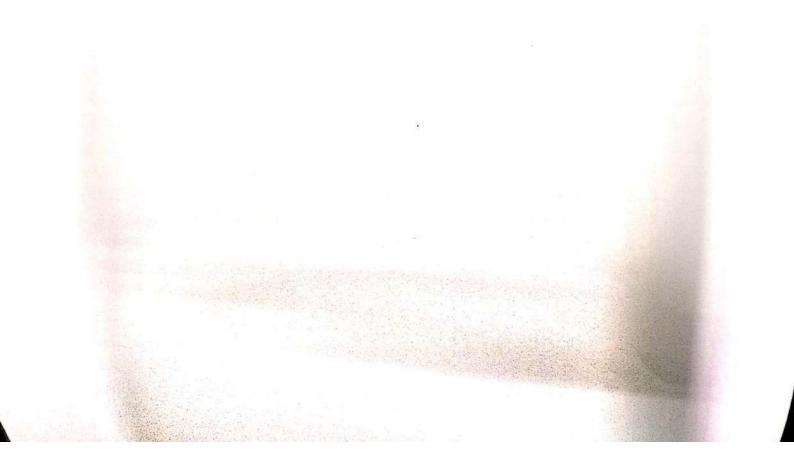
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Annexure C

	of Domain courses approved Domain Course Title	Credit	(T+P+P)
SI. No	Domain Course Time	28	(14+8+6)
	Microbiology	28	(12+10+6)
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9.	First Aid Service		0+3+1
10.	General Duty Assistance Service	4	0+3+1
11.	X- ray Technology	4	

. Course Title	
	30 hrs
Human Rights (FCMG0115) Gender Issues in Development (FCMG0401)	30 hrs



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CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Paramedics and Allied Health Sciences

Date: 22/06/2019

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Deatials of Domain courses, life skill and value added courses introduced are mentioned in *Annexure C*.

The Dean, SoPAHS extended sincere thanks to all the members of the Board.

The meeting ended with a vote of thanks to the Chair.

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Annexure A

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6.	Mini Project	Employability	2
0.	MSc CMB		
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2.	Parasitology and Mycology lab	Employability	2
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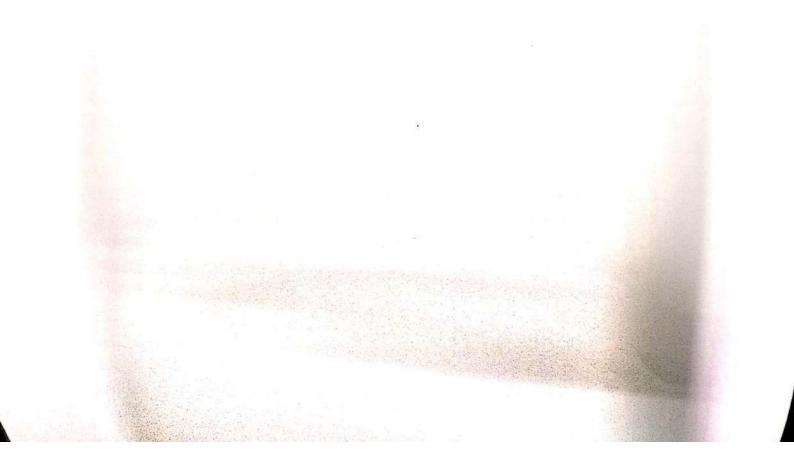
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Annexure C

	of Domain courses approved Domain Course Title	Credit	(T+P+P)
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11.	X- ray Technology	4	

. Course Title	
	30 hrs
Human Rights (FCMG0115) Gender Issues in Development (FCMG0401)	30 hrs



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School of Fisheries

Minutes of Board of Studies Meeting -2019

Date: 22.06.2019

Agenda; Revision of Curriculum -2019

The Board of Studies (BoS) meeting of School of Fisheries was held on 30.06.2018 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following members were present:

- 1. Dr. Jitendra Kumar Sundaray, Principal Scientist, CIFA
- 2. Dr. Smabid Swain, HOD, Fisheries, CUTM
- 3. Dr.B P Mishra, Dean SoABE, CUTM, PKD

The discussion was carried out on the addition and revision of syllubus of following subjects for 2017-21 batch, 2018-22 batch and 2019-23 batch,

 In 5th semester following courses are offered, FSAQ-3105, FSRM-3105, FSHM-3103, FSHM 3105, FSRM-3107, FSEE-3104, FSFF-3105, FSRM-3108, FSEM-3108, FSHM-2202, FSPT-3209.
 Note: The Courses of Microbial and Parasitic Disease of Eish and Shellfish (ESHM-2202) and

Note: The Courses of Microbial and Parasitic Disease of Fish and Shellfish (FSHM-2202) and Aquaculture Engineering (FSFE-2102) will be offered to the students of 2018-2022 and 2019-2023 batches in their 4th and 3rd Semesters but for 2017-2021 batch these courses will be offered in the 5th and 6th Semesters respectively.

- 2. Quality Assurance of Fish and Fish products course will be offered in 6th Semester for 2018-2022 and 2019-2023 batches but for 2017-2021 batch the same course will be offered in 5th semester.
- Taxonomy of Shellfish (FSRM-1102) which is offered in 1st semester will be shifted to 2nd semester for the convenience of the students from 2019 batch.
- 4. Aquaculture on Reservoirs (FSAQ-1207) which is offered in the 2nd semester will be shifted to 1st semester from 2019 batch.

Addition of matters in theroy courses,

- 1. Soil and Water Chemistry (FSEM-1102): Aeration, chlorination, ozonization and UV-radiation, waste and water treatment practices, algal bloom control and eutrophication, aquatic weed management, soil probiotics.
- 2. Freshwater Aquaculture (FSAQ-1202) : Biofloc Technology (BFT), Zero water aquaculture, Intensive system for Aquaculture, Imapct of Aquaculture to Environment, Quarantine.
- 3. Fish Food Organisms (FSAQ-2109): Copepod, polycheats.
- 4. Ornmental Fish Production and Management (FSAQ-2103): Value addition, colour enhancement, Gene editing and production of new strain, hybrids.
- 5. Coastal Aquaculture and Mariculture (FSAQ-2204) Pompano, Reef fisheries, Hilsa.
- 6. Therapeutics in Aquaculture (FSHM): Introduction to Antimicrobial Resistance (AMR)
- 7. Shellfish Hatchery Mamnagement (FSAQ-2206) L. vennamei Breeding and Hatchery Management
- 8. Fish Toxicology (FSHM-3105) Endocrine disrupter chemicals

Centurion University of Technology & Management

- 9. Fisheries Co-operative and Marketing (FSEE-3104)- NCDC, FISHCOFED, NFDB, MPEDA
- 10. Fisheries policy and Law (FSEE-3203): Odisha, Fisheries Policy 2015

The meeting concluded with vote of thanks to the Chair.

aw

Head School of Fisheries

TY Devender My

Dean (Academics) ,MSSSoA

4/0 22/6/19 DR JITCHORA KUMAR SUNDARA HEAD OF DIVISION (FISH GENETICS & BIOTECAMOLOGY) ICAR CIFA, BHUBAHESWAX Seven 19 db. SAMBID SWAIN HOD, Askonin, Depostment of fisheries MSSCOA, WTM, PKD B. P. Michine (SOABE) Dean (SOABE)



CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

MS Swaminathan School of Agriculture

Date:22.06.2019

MINUTES OF BOARD OF STUDIES MEETING held on 22.06.2019

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of MS Swaminathan School of Agriculturewas held on 22.06.2019at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following members were present:

- 1. Prof.P.K.Mahapatro
- 2. Prof.B K Mishra
- 3. Prof. M.Devender Reddy
- 4. Prof. Satya Prasad Nanda
- 5. HOD Agronomy
- 6. HOD Plant Pathology
- 7. HOD Entomology
- 8. HOD Soil Science
- 9. HOD Extension
- 10. HOD GBP
- 11. HOD Biotechnology
- 12. HOD Plant Physiology
- 13. HOD Horticulture
- 14. Alumni

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dean of the MS Swaminathan School of Agriculturepresented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 22.06.2019were confirmed.

1. All the external BoS members appreciated the structure and course outline of different courses and domains. They mentioned that the courses are well structured, organized and application oriented as per academics and industry is concerned. They also appreciated the on-line class delivery initiative of the University.

2. Prof. P. K. Mahapatro, Retd. Dean, OUAT, suggested and emphasized to incorporate the smart agriculture management practice in production courses of UG and PG courses. He also suggested to give importance to on Biofertilizer production and utilization in organic production systems.

Agenda 2:Discussion and approval on any revision required in the Curriculum of B.Sc Agriculture



- The Dean Agriculture. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2018-19.
- Discussion and Resolutions taken (Syllabus/Evaluation systems etc.);

Students should be more and more exposed towards industries and gain industrial experience, entrepreneurship skills and start ups.

Students should be trained in Digital Marketing Skills and in improving the personality

Reshuffling of courses in UG

Agenda 3:Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members.

1.under high tech horticulture, production of quality planting materials should be kept under ELP programme

2.Increase of organic farming production of biofertilizer a) 2 bio pesticides b)production technologies for field crops c)production technologies for horticultural crops should be kept under AELP track -1 and production of an individual crops under AELP track-2

3. It was decided to introduce new supporting and minor courses in M. Sc. (Ag) and follow the guideline of BSMA, ICAR from time to time. Newly formed domains for B.Sc (agriculture) like Organic Farming, Dairy processing and development, Intensive aquaculture, Seed production using manual and molecular method, Genetic engineering genomics, Smart Agriculture, Protected agriculture, Food processing, Commodity and food storage, Fish processing, Fish processing technology and several Skill courses.

The Dean , MS Swaminathan School of Agriculture. extended sincere thanks to all members of the Board.

The meeting ended with a voteof thanks to the Chair.

Convener of BoS& Dean MSSSoA(Academics)

Dean Administration

4/0 22/6/19 DR JITCHORA KUMAR SUNDARA HEAD OF DIVISION (FISH GENETICS & BIOTECAMOLOGY) ICAR CIFA, BHUBAHESWAX Seven 19 db. SAMBID SWAIN HOD, Askonin, Depostment of fisheries MSSCOA, WTM, PKD B. P. Michine (SOABE) Dean (SOABE)



CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Engineering & Technology

Department of Civil Engineering

Date: 30/06/2018

MINUTES OF BOARD OF STUDIES MEETING held on 30/06/2018

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Civil Engineering was held on 30/06/2018 at 11 a.m. in the Board Room, CUTM Bhubaneswar.

The following are the members:

- 1. Prof. C.N.V. Satyanarayan Reddy, Professor, Dept. of Civil Eng., Andhra University
- 2. Prof. Manoj Ku Rath, Prof. Dept. of Civil Engg, CUTM, BBSR Campus
- 3. Prof. R. C. Padhy, General Major
- 4. Dr. Siba Mishra, Assosiate Prof. Dept. of Civil Engg, CUTM, BBSR Campus
- 5. Prof. Prafulla Kumar Panda, HOD Dept. of Civil Engg, CUTM, PKD Campus
- 6. Prof. Sagarika Panda, HOD Dept. of Civil Engg, CUTM, BBSR Campus

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Civil Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 12.06.2017 were confirmed.

Agenda 2: Approval for B.Tech Civil Engineering Course structure and syllabus for basket 3 and 4 of CBCS system.

The HoD, Civil Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2017-18.

- Contact hour need to be less and more hours should be allotted for practice. .
- As per the AICTE Regulation, to give extra 20 credits for specialization as major degree and . minor degree.
- Subject wise feedback was given for courses in basket 3 and basket 4.
- This subject has been renamed in CBCS basket IV and the content has been modified.
- Two courses from each domain in basket V is to be carried over to basket IV as advanced learning.
- The new domain planning, design and drawing has been restructured and the new courses are to be incorporated. Architectural Design, Green building design, 3D modeling and VR experience of Building, Earthquake Resistant design, Barrier free design, and intelligent Building design with project and internship. (Annexure A)





The Board approved the changes suggested in the Hydraulics and hydraulics machines, Hydrology and water resources engineering, GIS and Digital cartography, Workshop Practice as per the latest Software and technology being used by the industry. List of existing courses where syllabus was revised in (Annexure B)

Agenda 3: Inclusion of courses on Domain, skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members.(Annexure C)

The HoD, Department of Civil Engg. extended sincere thanks to all members of the Board.

The meeting ended with a voteof thanks to the Chair.

Dean, SoET Dean, SOET Centurion University of Technology & Manager ---- Bhubaneswar, Khurda, Odisha-752050 Odisha

Dean, Academics Dean - Academic

Sagunka HoD, Civil Engineering

HOD Centurion University of Technology & Management Dept. of Civil Engineering Centurion University of Technology & Management, BBSR





Annexure-A

List of new courses

SI. No	Course Title	Type (Skill/Employability/Entrepreneurship	Credit
1	Disaster Preparedness & Planning management	Entrepreneurship	2
2	Functional planning and DPR	Employability	3
3	Site Supervision & Measurement Methods.	Employability	4
4	Tendering Process, Bidding Contract Agreements & Arbitration.	Employability	3
5	Green Building Design	Employability	3
6	Barrier Free Design	Employability	2
7	Intelligent Building Design	Employability	2
8	3D Modelling and VR experience of Building	Skill Development	4
9	Geospatial Technology and its Application	Employability	5
10	Photogrammetry and its Application	Employability	4
11	Concrete Technology	Skill Development	2





Annexure-B

List of existing courses where syllabus was revised

Basket/ Semester	Name of Course	No. of Modules/To	Desired Market and the second
v		pics revised	Revised Modules/Topics (details)
v	Pre-Fabricated Structures	1	One module has been added
v		2	depending on the industry requirement
v	Transportation Engineering	2	One module has been added
V		2	depending on the industry requirement
. V	Water supply & Waste water	2	One module has been added and another
	Management		module is merged with slight change as
IV	Hydrology & Water Resources	1	per industry requirement
	Engineering	1	One module has been added
IV	Quality Control and Risk	1	depending on the industry requirement
1 *	Management in Construction	1	One module has been added
IV	Management in Construction	1	depending on the industry requirement
1 4	Geotechnical Investigations	1	One module has been added
IV	Ponsing Deneustics and	1	depending on the industry requirement
IV	Repairs, Renovation and Rehabilitation of Structures	1	One module has been added
IV	Software Based Project		depending on the industry requirement
1 V	Scheduling and Management	1	One module has been added
IV	Scheduling and Management	1	depending on the industry requirement
1.4	Earthquake Resistant Design	1	One module has been added
IV		1	depending on the industry requirement
1 4	Architectural Design	1	One module has been added
IV	Remote Sensing & Digital Image	1	depending on the industry requirement One module has been added
	Processing	1	
IV	Lidar Remote Sensing and its	1	depending on the industry requirement
	Applications	1	One module has been added
IV	Applications	1	depending on the industry requirement
	Smart City Planning	1	One module has been added
IV		1	depending on the industry requirement
	Geometric Modeling Lab	1	One module has been added
IV		2	depending on the industry requirement
Size .	Hydraulics & Hydraulic Machine	2	One module has been added
IV		1	depending on the industry requirement
	Pre-Fabricated Structures	1	One module has been added
IV	-	1	depending on the industry requirement
	Foundation Engineering		One module has been added
IV	Computer Aided Design of	1	depending on the industry requirement
	Concrete Structure		One module has been added
IV	politication in the second sec	2	depending on the industry requirement
and the	GIS and Digital Cartography	2	One module has been added
IV	Construction Equipment	2	depending on the industry requirement
CH253	Management	-	One module has been added
IV		2	depending on the industry requirement
	Geotechnical Investigations	-	One module has been added
IV	Software Based Project Scheduling	3	depending on the industry requirement One module has been added
	and Management	1	
IV	Architectural Design	1	depending on the industry requirement One module has been added





			depending on the industry requirement
IV	Remote Sensing and Digital Image Processing	1	One module has been added depending on the industry requirement

Annexure-C

~	Comme Title	Credit	(T+P+P)
SI. No	Course Title	CUTM3042	0+3+1
1	Introduction to Composite Manufacturing	CUTM3043	0+3+1
2	3D Modelling and Printing	CUTM3045	0+3+1
3	Precast Concrete Manufacturing		0+3+1
4	Fabrication	CUTM3046	22.1.1.1.1.2.2.2.1.1.1.2.2.2.2.2.2.2.2.
5	Hi-Tech Surveying	CUTM3047	0+3+1
6	Internet of Things	CUTM3048	0+3+1
7	Mechatronics System Design	CUTM3049	0+3+1
8	Introduction to Nanotechnology	CUTM3051	0+3+1
9	Drone Piloting	CUTM3052	0+3+1
10	Camera Operation	CUTM3053	0+3+1
11	Editor	CUTM3054	0+3+1
		CUTM3055	0+3+1
12	Desktop Publishing Introduction to Blender and Unity tools	CUTM3056	0+3+1
13	Introduction to brender and Onity tools	001110000	

List of Skill courses (Basket) approved

List of Domain courses

	Name of the Domain	Credit	Category
1	Cyber Security and Digital Forensic	20	A/B
2	Data Science and Machine Learning	26	A/B/D
3	Microbiology	28	A/C
4	Medical Lab Technician	28	A/C
5	Pharmaceutical Chemistry	20	A/B/C
6	Radiology and Imaging Technology	30	A/C
7	Unity Gaming	26	B
8	Cyber Security and Digital Forensic	20	A/B
9	Data Science and Machine Learning	26	A/B/D
10	Microbiology	28	A/C
11	Medical Lab Technician	28	A/C
12	Pharmaceutical Chemistry	20	A/B/C
13	Radiology and Imaging Technology	30	A/C
14	Unity Gaming	26	B

List of value added courses

SI. No	Course Title	Hrs. of input
1	LSD-2	30
2	Conduct in daily Life-Insights from The Panchatantra	30
3	Human Rights	30
4	Renewable Energy	30
5	Data science & ML	30
6	Introduction to Nutraceuticals	30
7	Introduction to Tableau	30
8	Basics of Photography	30
9	Innovation Management	30
10	Effective Writing	30





11	Indian Culture and History	30
12	Critical Thinking	30
13	Disability, Diversity and Development	30
14	Intellectual Property Rights	30
15	Emotional Intelligence	30
16	Home remedies for healthy living	30
17	Self-Management: Insights from Srimad Bhagavad Gita	30



12 21 24 34 31 11

Proceedings of Board to Studies in civil Engy held on 30/06/2018 at Jathi Campus. Considered the syllabus Basket 3 2 4 and following recommendations were made. Recommendation - 1. -> Inclusion of soil mechanics in barket to as it is Chrongly recommended. Recomendation - 2 > In toundation Engg. course, the following changes are suggested. mod 1; Shallow foundation Mod 2! Deep formation. Mod 3: Earth prenure. A stability of slopes. Mod 4: Computer alded desogn of shallow & deep foundation. > Module name: mention. * Recommendation -3 A conc. parement design wrête flexible & rigid parement derogn & analyses, parement failures. Highway materials characterisation. Récommendatém-5 * Credit reduction from one each, TE, QCCI, Functional planning & DPR. Juny Con Q. My-9. Poof. C.H.V. Satyanayon neddy Bright. Manaj Kiman Raufs 3. General, No.F. R. C. Padhy Olde adr q. m. siba nushra 10mb mot proafulgrands



CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Engineering & Technology

Department of Computer Science and Engineering

Date: 30.06.2018

MINUTES OF BOARD OF STUDIES MEETING held on 30.06.2018

Venue: Board Room, CUTM, Bhubaneswar

Time: 10.00 a.m.

The Board of Studies (BoS) meeting of Department of Computer Science and Engineering was held on 30.06.2018 at 10 a.m. in the Board Room, CUTM Bhubaneswar. The following are the board members:

- 1. Dr. Debi Prasad Dogra, Asst. Prof, IIT, Bhubaneswar
- 2. Rajesh Francis V.P, Exuber Software Solutions
- 3. A Anurag, Pro Vice Chancellor, CUTM
- 4. K.V Kalyan, Asst. prof, CUTM AP
- 5. K. Santosh Chandra Rao, HOD., CSE, PKD
- 6. Dr. Prasant Kumar Mohanty, HOD, CSE, BBSR & Dean, SoET

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Computer Science Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 02.06.2017 were confirmed.

Agenda 2: Discussion and approval on any revision required in the Curriculum of B. Tech, Computer Science Engg.

- The HoD, Computer Science and Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2018-19.
- The Board approved the changes suggested in the existing syllabus and some new courses . added as per the latest Software and technology being used by the industry .(Annex-1)
- B.Tech CSE Basket V domain courses revision has been made as per the latest Software and technology being used by the industry.(Annex 2)
- The board approved one-month orientation program to be conducted for new joining students where exposure on project, domain, value added course are to be given.
- To facilitate exposure on industry practice, boot camp activity and workshop to be conducted which was approved by the Board.





Agenda 3: Inclusion of courses on life skills and value addition

For the students general development and wellbeing, it was recommended that students enrol in the different life skills and volume that is and wellbeing it was recommended that students enrol in the different life skills and value-added courses the university offers. The Board members concurred and gave their approval to the same. (Annex 3 and Annex 4)

The HoD, Department of Computer Science and Engg. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Odisha

Dean, SoET HoD, Computer Science & Engineering Dean, Academics Dean, SOET HOD CSE Dean Academics Centurion Institute of Technology Conturion University of Technology & Mana Canturion University of Technology & Management

Odisha





Annexure-1

No. of new courses added with credit

SI. No	Course Title	Type(Skill/Employability/Entrepreneurship	Credit
	Programming for	-, pe(okin Employaoni,	3
	Problem Solving -		
	Java	Skill And Employability	
	Data Base	okin And Employability	3
	Management		
2	System	Skill And Employability	
	Problem Solving	Skin And Employability	3
3	& Programming	Skill And Employability	
	Data Structures	Skill And Employability	4
	and C		
4	Programming	Skill And Employability	
5	Operating System	Skill And Employability	4
6	Big Data Analytics	Skill And Employability	4
	Block Chain and	Skill And Employability	3
7	Smart Contracts	Skill And Employability	5
	Programming	Skill And Employability	3
8	Internet of Things	Skill And Employability	2
0	Al Tools,	Skii Ald Elipioyaolity	4
	Techniques and		5024
9	applications	Skill And Employability	
,	Cloud Computing	Skill And Employability	4
	and its		1942
	applications using		
10	Linux OS	Skill	
10	Problem Solving	Skii	3
	using Python	Skill And Employability	5
11	Object Oriented	Skin And Employability	4
	Programming		
10	through Java	Skill And Employability	
12	Web Technologies	Skill And Employability	4
13	Software	Skin And Employdonity	4
			4
	Engineering using	Skill	
14	Agile	Skill And Employability	2
15	Internet of Things	Dan And Employaonity	3
	Build your own	Skill And Employability	2
16	Computer	chair and Employachity	
- Sul	Cloud Computing	Skill And Employability	4
17	Application	San the suprogrammy	
	Mobile App	Skill And Employability	4
18	Development	Skill ring Shipley contry	
1.154	Introduction to		3
	Gamming &	Skill And Employability	
19	Simulation	okin ring ampioyaonity	
	Introduction to	Skill And Employability	3
20	Cyber Security	on the on programmy	and the second
	AI & ML using	Skill And Employability	3
21	Python	1 sum that surplus autility	H



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Object Oriented	UNIVERSITY	
o ojeci Onenied		4
Analysis and		
Design	Skill And Employability	
Systems	okin And Employability	4
	Skill	
Computer	SKII	3
	Skill And Employability	
	Skill And Employaonity	4
	Skill And Employability	
		2
	Skill And Employability	3
	8	
Architecture	Shill A 1 E have hilitin	
	Skill And Employability	4
and Automata		
	S1-111	
	Skill	4
and Algorithms	S14:11	
Network Security	Skill	3
and Cryptography	SIAII	-
	SKIII	4
	SIAII	
	SKIII	4
and the second se		20.
	Skill And Employability	
	Skill And Employability	4
	Skill And Employability	(5)
	Chine Shiptoy working	4
U	Skill And Employability	20
		4
105	Skill And Employability	1.00
		4
	6	PACEAR .
	Skill And Employability	
	Analysis and Design Systems Programming Computer Networks Cloud Infrastructure Project Computer Organization and Architecture Formal Language and Automata Theory Design Analysis and Algorithms Network Security and Cryptography Data Warehousing and Data Mining Introduction to Gamming & Simulation Game Assets & Game Objects Building Game Environment Game Animation, Scripting & UI Binary Deployment and Cross-Platform Controls	DesignSkill And EmployabilitySystemsProgrammingProgrammingSkillComputerSkill And EmployabilityNetworksSkill And EmployabilityCloudInfrastructureInfrastructureSkill And EmployabilityProjectSkill And EmployabilityComputerOrganization andArchitectureSkill And EmployabilityFormal Language and AutomataSkillTheorySkillDesign Analysis and AlgorithmsSkillNetwork Security and CryptographySkillData Warehousing and Data MiningSkillIntroduction to Gamming & SimulationSkill And EmployabilityGame Assets & Game ObjectsSkill And EmployabilityBuilding Game EnvironmentSkill And EmployabilityBinary Deployment and Cross-PlatformSkill And Employability



List of existing courses where syllabus was revised

Basket/ Semester	Name of Course	No. of Modules/Topics revised
IV	Operating System	Introduction: Architecture, Goals & amp; Structures of O.S, Basic functions, Interaction of O. S. & amp; hardware architecture, System calls, Batch, multiprogramming. Multitasking, time sharing, parallel, distributed & amp; real -time O.S. Process Management: Process Concept, Process states, Process control, Threads, Uni- processor Scheduling: Types of Scheduling,Scheduling algorithms : FCFS, SJF, RR, Priority, Thread Scheduling, Real Time Scheduling. System calls like ps, fork, join, exec family, wait.

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Appendix 2

Domain Courses

Cyber Security and Digital Forancia	20	A/B
Data Science and Machine Learning		A/B/D
Microbiology		A/C
		A/C
Pharmaceutical Chemistry		A/B/C
Radiology and Imaging Technology		A/C
Unity Gaming		B
	Cyber Security and Digital ForensicData Science and Machine LearningMicrobiologyMedical Lab TechnicianPharmaceutical ChemistryRadiology and Imaging TechnologyUnity Gaming	Data Science and Machine Learning26Microbiology28Medical Lab Technician28Pharmaceutical Chemistry20Radiology and Imaging Technology30





Annexure-3

Skill Courses approved by the University

S NO	Course Name	Course Code	Credit
1	Introduction to Composite Manufacturing	CUTM3042	4
2	3D Modelling and Printing	CUTM3042	4
3	Precast Concrete Manufacturing	CUTM3045	4
4	Fabrication	CUTM3046	4
5	Hi-Tech Surveying	CUTM3047	4
6	Internet of Things	CUTM3048	4
7	Mechatronics System Design	CUTM3049	4
8	Introduction to Nanotechnology	CUTM3051	4
9	Drone Piloting	CUTM3052	4
10	Camera Operation	CUTM3053	4
11	Editor	CUTM3054	4
12	Desktop Publishing	CUTM3055	4
13	Introduction to Blender and Unity tools	CUTM3056	4
14	Introduction to Composite Manufacturing	CUTM3042	4





Appendix 4

Value Added Courses approved by the University

S NO	Course Name	Course Code	Credit
2	LSD-2	CUVADDII	30 Hours
	Conduct in daily Life- Insights from The Panchatantra	CUVA0033	30 Hours
3 4	Human Rights	CUVA0034	30 Hours
1.12	Renewable Energy	CUVA0035	30 Hours
5	Data science & ML	CUVA0036	30 Hours
6	Introduction to Nutraceuticals	CUVA0037	30 Hours
7	Introduction to Tableau	CUVA0038	30 Hours
8	Basics of Photography	CUVA0039	30 Hours
9	Innovation Management	CUVA0048	30 Hours
10	Effective Writing	CUVA0049	. 30 Hours
11	Indian Culture and History	CUVA0050	30 Hours
12	Critical Thinking	CUVA0051	30 Hours
13	Disability, Diversity and Development	CUVA0066	30 Hours
14	Intellectual Property Rights	CUVA0065	30 Hours
5	Emotional Intelligence	CUVA0063	30 Hours
6	Home remedies for healthy living	CUVA0062	30 Hours
7	Self-Management: Insights from Srimad Bhagavad Gita	CUVA0061	30 Hours
8	LSD-2	CUVA0011	30 Hours
9	Conduct in daily Life- Insights from The Panchatantra	CUVA0033	30 Hours

BOS MEETING (22/06/19) 17:81 Agenda - Approval of Mechanical engeneering Basket IV and Basket V Syllabus Pok 2018 Batch Students. Date + Rajobjig Venue - Cad lab, CIT Comput Jabani. Mambar Propost - Signature 1. Inof. S. & Monopalra CNIT Rouncela) Sof Smahap 2. S. Mohanty (Nilashal Espat Nigam (td) Asp. 3. Mr. Rabindra Sab (107m, BBCR) 4. Prof. P.C. Rao (COTM, PRD) Makan (1) 7. DR. R.C. Mohanty (CUTM, BBSR) - July 8. Prof. Amount Mattice (CUIM, PLD) Anot mallicly. 9. Projna Paramita Debuta (HOD, ME) what 10. Mas Dosita Meshra 12. Sudeep kuman Singh (Aut breg. Mechanical Eng)



CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Applied Sciences **Department of Chemistry**

Date: 30.06.2018

MINUTES OF BOARD OF STUDIES MEETING held on 30.06.2018

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Chemistry was held on 30.06.2018 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following members were present:

- 1. Dr. Prafulla Kumar Sahoo ,Utkal University (Subject expert)
- 2. Dr. SK Biswal (Dean SoAS) ,CUTM ,BBSR Campus
- 3. Dr.Dojalisa Sahu(HoD,Chemistry), CUTM ,BBSR Campus
- 4. Dr Chandana Adhukari, CUTM , Rayagarh Campus
- 5. Dr Suman Panda, CUT M, Bolangir Campus
- 6. MLN Acharyulu, CUTM , VIZAG Campus

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Chemistry presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 12.06.2017 were confirmed.

Agenda 2: Discussion and approval in the domain content (Pharmaceutical Chemistry) Curriculum of B.Sc (Hons.)

- The B.Sc. (Hons.) core syllabus is not changed only one domain course is introduced .The syllabus of the domain (Pharmaceutical Chemistry) is prepared by the following pharmacy council of India syllabus.(Annexure-1)
- The domain syllabus is received by the external members Prof (Dr.) Prafulla Kumar . Sahoo. The syllabus has been recommended for the implementation in the coming semester for 2018-2019 batch.

Agenda 3: Discussion and modification in B.Tech (CBCS) for Basket-I to be approved

Dr MLN Acharyalu has suggested some modification in the B.Tech (CBCS)Basket -1 syllabus .However ,the members of BOS has not been recommended the said modification for immediate implementation(Annexure-2)





Agenda 4: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members.(Annexure-3)

The HoD, Department of Chemistry. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Chemistry HOP D

Supartment of Cheroisty thool of Alsilied ?:,er. es WAVERSITY OF TE, UN DU FEV & BAN IGENER Bhubar, eswar, U 31- m

Dean,SoAS

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Dean, Academics

Zels Dean - Academic Centurion University of Technology & Management







Annexure I

B. Sc. Chemistry Syllabus (III to VI semester)

Type of curriculum; CBCS/Elective/NEP: B.Sc : CBCS

List of new courses added

SI. No	Course Title	Type(Skill/Employability/ Entrepreneurship	Credit
110		B.Sc(Semester -III)	
1	Inorganic chemistry-II	Employability	6
2	Organic Chemistry-II	Employability	6
$\frac{2}{3}$	Physical Chemistry-III	Employability	6
4	Inorganic Chemistry-III	Employability	6
-	morganie entenioù j	B.Sc(Semester -IV)	
	O Chemistry III	Employability	6
1	Organic Chemistry-III	Employability	6
2	Physical Chemistry-IV	Employabilityand Skill	6
3	Organic Chemistry-IV	Employability and Skill	6
	Physical Chemistry-V	B.Sc(Semester -V)	
	: Chamistry IV	Employabilityand Skill	6
5	Inorganic Chemistry-IV	Skill	6
6	Organic Chemistry-V	Employability and Skill	6
7 8	Environmental Science Industrial Chemicals and	Employability	6
	Environment		6
9	Inorganic Materials of Industrial Importance	Skill	
10	Research Methodology for Chemistry	Skilland Employability	6
	101 Chemistry	B.Sc(Semester -VI)	
11	Instrumental Methods of	~	6
54	Chemical Analysis	Skill	6
12	Basic Pharmaceutical Chemistry	Skill	6
13	Analytical Clinical	Skill	6





	Biochemistry		
14	Green Methods in Chemistry	Skill	6
15	Basic Analytical Chemistry	Skill	6





Annexure-II

BASKET - I (B.Tech-All programs)

Course Title	Course Type	Credits	Prerequisite	Department Offering
Applied Analytical Chemistry	Theory + Practice	3	Nil	Chemistry
Industrial Chemistry	Theory + Practice	3	Nil	Chemistry
Applied Engineering Materials	Theory + Practice	3	Nil	Chemistry
Environmental Science	Theory	3	Nil	Chemistry
	Applied Analytical Chemistry Industrial Chemistry Applied Engineering Materials	Applied AnalyticalTheory +ChemistryPracticeIndustrial ChemistryTheory +Industrial ChemistryPracticeApplied EngineeringTheory +MaterialsPractice	Applied Analytical Theory + Chemistry Practice Industrial Chemistry Theory + Practice 3 Applied Engineering Theory + Materials Practice	Applied AnalyticalTheory +ChemistryPractice3NilTheory +Industrial ChemistryTheory +Practice3Applied EngineeringTheory +MaterialsPractice3Nil







Annexure-III

List of Value added courses

List of Skill Courses

SI. No	Course Title	Type(Skill/Employability/Entrep reneurship	Credit
1	Basic Herbal Technology	Skill	
2	Extraction and Isolation of Drugs	Skill	2
3	Chemical Identification of Drugs	Skill-Chemical identification of drugs	2
4	Chemistry of Biomolecules	Employability and Skill	4
5	Physical Chemistry of Pharmaceuticals	Employability and Skill	4
6	Essentials of Pharmaceutical Chemistry	Employability and Skill	4
7	Analytical Techniques for Pharmaceutical Drugs	Employability and Skill	6
	Project	Skill	





Board of Studies Meeting

11 Proceedings of Board of Studies Meeting on 22 (In June 2018 BOS neeting was held on Dean Sits offi Ce, IVTN Chubane swal Member Present ernal Member la Kn. Sahoo 1. Utkal Unever Doialica Sa handana Adkikan (UTM, Rayagada Campus Panda (CUTM, Balangir Campus Mr. Suman ML Dr. Acharcyclu (WTM MA he following points has beer recompliades and NUS 1. labus 24 90 hD. Only urce labus the omain arcmacen following mepare Cuenso India 0 bur 2. - Syllabury the member Erena Port Dr rafulla Saho. per the juggestion 3-6 external member segliabus that been recommeded for the implementation in the coming Lemes in for 2018-2019 Batch 202



Board of Studies Meeting

12 11 3. Dr. MLN Acharyulu has Euggested modification in the B. Tech (CBCS) However the members of Bos, has Sylla Tech (CBCS no the Said modification for Emmideale implementation anviss A sorth June 2018 30 A Acha would A-P COTT



CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Management

Date: 06.07.2018

MINUTES OF BOARD OF STUDIES MEETING held on 30.06.2018

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of School of Management was held on 30.05.2018 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following members were present:

- 1. Dr. Smita Mishra Panda, Director Research, CUTM
- 2. Dr. Anita Patra, Registrar, CUTM
- 3. Dr. Prasanta Kumar Mohanty, Dean, Academics, CUTM
- 4. Dr. Ashok Kumar Mohanty, Retd. Professor, Berhamur University
- 5. Dr. Rashmi Ranjan Parida, PGP Coordinator, CUTM
- 6. Dr. Pramod Kumar Patjoshi, Faculty, CUTM
- 7. Dr. Bibhunandini Das, Faculty, CUTM
- 8. Dr. Umakanta Nayak, Faculty, CUTM
- 9. Prof. Shiv Sankar Das, Faculty, CUTM
- 10. Prof. KVD Prakash, Faculty, CUTM
- 11. Dr. Bijay Bhujabal, Dean, SoM, CUTM

The Chairperson, CUTM welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dean, SoM presented the achievements and improvements of the School in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 12.06.2017 were confirmed.

Agenda 2: Discussion and approval on revision required in the Curriculum of MBA Program

- The Dean, SoM presented the MBA curriculum based on the feedback and suggestions made by the various stakeholders. Board discussed the curriuculum throughly and approved the following suggestions for course revision to be implemented from the Academic Year 2018-19 (Annexure-I).
 - A new Area of Electives was introduced in Hospital Management with 48 credits.

Agenda 3: Discussion and approval on revision required in the Curriculum of MBA-DM & ABM program

The Dean, SoM presented the MBA- DM&ABM syllabus developed in collaboration with representatives of Norwegian University of Science and Technology (NTNU) and suggestions made by the various stakeholders . The Board accepted and approved the curriculum to be implemented from the Academic Year 2018-19 (Annexure-II).





Agenda 4: Discussion and approval on revision required in the Curriculum of BBA program

 BBA syllabus was presented based on the suggestions made by the various stakeholders. The Board accepted and approved the existing syllabus without changes for the academic year Year 2018-19.

Agenda 5: Discussion and approval on revision required in the Curriculum of BBA program

 B.Com syllabus was presented based on the suggestions made by the various stakeholders. The Board accepted and approved the existing syllabus without changes for the academic year Year 2018-19.

Agenda 6: Inclusion of courses on life skills and value addition

Various courses were presented to be offered by the University in the areas of life skills and value addition for the overall improvement and well being of students. The same was agreed upon and approved by the Board members. (Annexure-III)

The Dean, SoM extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoM

School of Management Centurion University, Odisha

souseun Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda - Colsha-152050



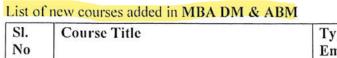
Annexure-I

(i) SI. No	List of new courses added in MBA Course Title	Type (Skill/ Employability/ Entrepreneurship	Credit
Elect	ives of Semester III and IV		
1	Power Distribution Management	Employability	4
2	Power Plant System	Employability	4
3	Project Planning, Analysis and Management	Employability, Entrepreneurship	4
4	Electricity Industry Structure and Act	Employability	4
5	Integrated Energy Management & Power Planning	Employability	4
6	Financing Energy Sector Projects	Employability, Entrepreneurship	4
7	Power Pricing & Power Purchase Agreement	Employability, Entrepreneurship	4
8	Power Trading	Employability	4
9	Power Station Management	Employability	2
10	Renewable Energy for a Sustainable Future	Employability, Entrepreneurship	4
.1	Risk Hazard and Environment	Employability	2
	Energy Conservation & Update	Employability	4
.2 3	Maintenance Management and Inventory Control	Employability	4



Annexure-II

SI. No	Course Title	Type (Skill/ Employability/ Entrepreneurship	Credit
Seme	ster-I		
1	Introduction to Indian Society	Employability	2
2	Marketing Management	Employability &	
3	Accounting for Managers	Employability & Entrepreneurship	4
Seme	ster-II		
3	Financial Management	Employability & Entrepreneurship	4
4			4
5	Skill Ecosystem Development	Employability	4
6	Innovation and Regional Development	Employability	4
7	Project Management	Employability & Entrepreneurship	4
Seme	ster-III		
8	Summer Internship	Employability & Entrepreneurship	8
9	Development and Globalisation	Employability	7.5
10	Global Production Network	Employability	7.5
11	Research Methods	Employability & Entrepreneurship	7.5
12	Gender Issues in Development	Employability	3.5
13	Introduction to Ethics	Employability	1
	ster-IV		1
14	Development Action Research Thesis	Skill development	10
16	Agriculture Action Research Thesis	Skill development	10





Annexure-III

Skill Courses	approved	by university
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Sl. No.	Course Title	Credit
1	Introduction to Composite Manufacturing	4
2	3D Modelling and Printing	4
3	Precast Concrete Manufacturing	4
4	Fabrication	4
5	Hi-Tech Surveying	4
6	Internet of Things	4
7	Mechatronics System Design	4
8	Introduction to Nanotechnology	4
9	Drone Piloting	4
10	Camera Operation	4
11	Editor	4
12	Desktop Publishing	4
13	Introduction to Blender and Unity tools	4

Value Added courses approved by university

	Course Title	Credit
1	LSD-2	30 Hours
2	Conduct in daily Life-Insights from The Panchatantra	30 Hours
3	Human Rights	30 Hours
4	Renewable Energy	30 Hours
5	Data science & ML	30 Hours
6	Introduction to Nutraceuticals	30 Hours
7	Introduction to Tableau	
8	Basics of Photography	30 Hour
9	Innovation Management	30 Hour
10	Effective Writing	30 Hour
11	Indian Culture and History	30 Hour
12	Critical Thinking	30 Hour
13	Disability, Diversity and Development	30 Hour
14	Intellectual Property Rights	30 Hour
5	Emotional Intelline	30 Hou
6	Emotional Intelligence	30 Hou
7	Home remedies for healthy living	30 Hou
/	Self-Management: Insights from Srimad Bhagavad Gita	30 Hou



22 Bos meeting held on of 30th June 2018 SCHOOL OF MANAGEMENT, Venue MEMBERS PRESENT External Internal, Mr. P.K. Das 1) Prot. Anita Pat. 2) Mr. P.K. Mishoa (2) Proto Boijay Bruje (3) Mr. A.K. Mohanty Dort- p. K. Monarty @ por KVD Pranats (5) hot. Unaventa Non 6) Put Shir Somer Du (9) Prot. Roshmikaup la & Int bramod Patjosh MBA Program (9) Port- Dorshurenstini De - Simulated Interschip program to be introduced in semester - 02 of 2 credit. - From EFC (aleilie Foundation course)-sales & Distribution management mill nevert back to Semaster - (1) - 4th electric to be introduced in Senester - m. - Power Maragement course was discussed & explained by Mr. P. K. Doc MBA (DM) - Prot. Lashmi Parida explained about the given by NTNU and CUTM.

SIGNATURES OF MEMBERS SIGNATURES LNAL MEMBERS. R. P.K. DAS R. P.K. MISHRA TI YA 2. A.K. MOHANTY SIGNATURES ERNAL MEMBERS. mole. ANITA PATRA (REGISTRAR) NOG. KVD PRAKASH (DEAN-HERHED) 30 6 20 18 3006 18 DOOF. BIJAY BHUJABAL p.K. MOHANTY 30/06/18 vor. 30/6 PAUL- UMAKANT NAYAK SHIV SANKAR DAS Prot. Prit. BIBHUNANDIN DAS PAR PRAMOD PATJOSHI Prot. RASHMI RANJAN PARIDA be intruction de state





CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Media and Communication

Date: 06.07.2018

MINUTES OF BOARD OF STUDIES MEETING held on 30.06.2018

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Civil Engineering was held on 30.06.2018 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following members were present:

- 1. Prof. Chandrabhanu Pattanayak, Director, SoMC, CUTM
- Dr. Jayant Kumar Swain, Assistant Professor and Co-ordinator, PG Department of Journalism & Mass Communication, Ravenshaw University
- 3. Mr. Ashok Kumar Panda, Journalist
- 4. Dr. Ambika Sankar Mishra, HoD, SoMC

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Civil Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 12.06.2017 were confirmed.

Agenda 2: Discussion and approval on revision required in the Curriculum of MAMC

- The Director, SoMC gave a presentation based on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on that, the Board accepted and approved the incorporation of new courses to the syllabus for the academic year 2018-19 (*Annexure-I*)
 - Courses on reseach methods, digital media and new electives were introduced

Agenda 3: Discussion and approval on revision required in the Curriculum of BAMC

- BAMC syllabus was presented based on the suggestions made by the various stakeholders . The Board accepted and approved the incorporation of new courses in the syllabus for the academic year Year 2018-19 (Annexure-II).
 - Courses on electronic, digital media and new electives were introduced

Agenda 4: Inclusion of courses on life skills and value addition







It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure-III)

The Director, SoMC extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

42/45

Director, SoMC

Dean, Academics

HoD, SoMC

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050





Annexure-I

SI. No	Course Title	Type (Skill/ Employability/ Entrepreneurship	Credit
1	Communication Research Methods	Skill development	4
2	Introduction to Print & Electronic Media	Skill development	4
3	Society, Media and Communication	Skill development	4
4	Advanced Digital Media	Skill development	4
5	Digital Media Platforms	Employability	4
6	Film studies	Employability	4
7	Advertising and Public Relations	Employability	4
8	Thesis	Employability	4
9	Camera Operator	Skills development	2
10	Video Editor	Skill development	4
1	Sound Engineer	Skill development	2
.2	Adobe tools and illustrations	Skill Development and Employability	4
3	Advance Skill Course	Skill Development	4

List of new courses added in MA-MC





SI. No	Course Title	Type (Skill/Employability/ Entrepreneurship)	Credit
1	Introduction to Print and Electronic Media	Skill Development	7
2	Introduction to Social Media	Employability	7
3	Electronic Media	Skill development and Employability	7
4	Film Studies	Employability	7
5	PR and Advertising	Employability	7
6	Digital Media	Skill Development	7
7	Camera Operator	Skill Development	7
8	Video Editor	Skill Development	7
9	Sound Engineer	Skill Development	7
10	Adobe tools and Illustrations	Skill Development	7

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Annexure-III

Skill Courses approved by university

Sl. No.	Course Title	Credit
1	Apparel Production & Marketing	4
2	Line Stitching Supervising	4
3	Apparel Production	4
4	Light Motor Vehicle Driving	4
5	Fork Lift Operation	4
6	Heavy Vehicle Technology	4
7	Two Wheeler Service Technology	4
8	Four Wheeler Service Technology	4
9	E-Vehicle Assembly and Service Technology	4
10	Robotics	4
11	Poultry Farming	4
12	CNC Programming (CAM)	4
13	Design Supervising Wooden and Modular Furniture	4

Value Added courses approved by university

	Course Title	Credit
1	LSD-2	30 Hours
2	Development of Concentration and Memory- Application of 'Raja Yoga' in daily life	30 Hours
3	Self defence for Girls	30 Hours
4	Digital Marketing	30 Hours
5	Bio-fertilizer	30 Hours
6	Gender Issues	30 Hours
7 8	Solid Waste Management Smart Agriculture	30 Hours
8	Adobe Tools	30 Hours



8 Centorion University, Invotritute of Knowledge Society Dale: 30-06-2018 The Second Board of Studies Meeting, of the School of Medra and Communication, Institute of Knowles Societies, met on 30-06-2018. The following members were present: 1. Chandrabhane Pattanayax. 2. Ashok Kumar Planda. 3. Jayant Komar Swain 4. Amaika Sankar Mishra. At the outset, Chandra bhane. Pattanayax. initiated the discussions and gave a sationale for making changes to the existing Chrononiculum After a lot of Enseussion, the following chan Wese affected and incorporated. 1. Digital Media as a specialization was added to + Bachelos's Consse 2. Gaming, Motion Capture and VFX , as topics were introduced on the cose-papers - "Digrital Midria" 3. New papers rench as Adverstring and PR, Ontrodnetion to social Medra, and Digrital Medri and film Sudnes in Wese incorporated in the Cose Consises of BA and MA. 4. Ontroduction to Point Medra and Ontroduct to Electronic Midra, Which, Wese congrinal. two papers have been morged, and made one.

9 5. Medra Sustainability and International communication, which were osignally two paptos have been merged to one paper Ondes the normanchature "Socie Medria, Society and Communication. ge 6. New electrives Such as 1. Camera operator. 2. Video Editor 3. Sound Engineer 4. Animator 5. Adobe tools and Ollustrator have been included as Electrices along with other Electives which were these earther These Five courses are also stated to be delivered as three months carrificate Programmes in Collaboration with our paster "KOSHISH". 7. It is Enggested, that, the Bachelor and Masters Consists be sepositioned to seplect new and Cutting edge technology and disections. Details are in the appendi Jayant Kumerbrain. Ashok kufenda ASY Ambrika sagikal Hoishola





CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Media and Communication

Date: 06.07.2018

MINUTES OF BOARD OF STUDIES MEETING held on 30.06.2018

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Civil Engineering was held on 30.06.2018 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following members were present:

- 1. Prof. Chandrabhanu Pattanayak, Director, SoMC, CUTM
- Dr. Jayant Kumar Swain, Assistant Professor and Co-ordinator, PG Department of Journalism & Mass Communication, Ravenshaw University
- 3. Mr. Ashok Kumar Panda, Journalist
- 4. Dr. Ambika Sankar Mishra, HoD, SoMC

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Civil Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 12.06.2017 were confirmed.

Agenda 2: Discussion and approval on revision required in the Curriculum of MAMC

- The Director, SoMC gave a presentation based on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on that, the Board accepted and approved the incorporation of new courses to the syllabus for the academic year 2018-19 (Annexure-I)
 - Courses on reseach methods, digital media and new electives were introduced

Agenda 3: Discussion and approval on revision required in the Curriculum of BAMC

- BAMC syllabus was presented based on the suggestions made by the various stakeholders . The Board accepted and approved the incorporation of new courses in the syllabus for the academic year Year 2018-19 (Annexure-II).
 - Courses on electronic, digital media and new electives were introduced

Agenda 4: Inclusion of courses on life skills and value addition







It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure-III)

The Director, SoMC extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

42/45

Director, SoMC

Dean, Academics

HoD, SoMC

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050







Annexure-I

SI. No	Course Title	Type (Skill/ Employability/ Entrepreneurship	Credit
1	Communication Research Methods	Skill development	4
2	Introduction to Print & Electronic Media	Skill development	4
3	Society, Media and Communication	Skill development	4
4	Advanced Digital Media	Skill development	4
5	Digital Media Platforms	Employability	4
6	Film studies	Employability	4
7	Advertising and Public Relations	Employability	4
8	Thesis	Employability	
9	Camera Operator	Skills development	2
10	Video Editor	Skill development	4
1	Sound Engineer	Skill development	2
.2	Adobe tools and illustrations	Skill Development and Employability	4
3	Advance Skill Course	Skill Development	4

List of new courses added in MA-MC



Annexure-II



Course Title	Type (Skill/Employability/ Entrepreneurship)	Credit
Introduction to Print and Electronic Media	Skill Development	7
Introduction to Social Media	Employability	7
Electronic Media	Skill development and Employability	7
Film Studies	Employability	7
PR and Advertising	Employability	7
Digital Media	Skill Development	7
Camera Operator	Skill Development	7
Video Editor	Skill Development	7
Sound Engineer	Skill Development	7
Adobe tools and Illustrations	Skill Development	7
	Introduction to Print and Electronic Media Introduction to Social Media Electronic Media Film Studies PR and Advertising Digital Media Camera Operator Video Editor Sound Engineer	Skill/Employability/ Entrepreneurship)Introduction to Print and Electronic MediaSkill DevelopmentIntroduction to Social MediaEmployabilityElectronic MediaSkill development and EmployabilityFilm StudiesEmployabilityPR and AdvertisingEmployabilityDigital MediaSkill Development Skill DevelopmentCamera OperatorSkill DevelopmentVideo EditorSkill Development Skill DevelopmentSound EngineerSkill Development



Annexure-III

Skill Courses approved by university

Sl. No.	Course Title	Credit
1	Apparel Production & Marketing	4
2	Line Stitching Supervising	4
3	Apparel Production	4
4	Light Motor Vehicle Driving	4
5	Fork Lift Operation	4
6	Heavy Vehicle Technology	4
7	Two Wheeler Service Technology	4
8	Four Wheeler Service Technology	4
9	E-Vehicle Assembly and Service Technology	4
10	Robotics	4
11	Poultry Farming	4
12	CNC Programming (CAM)	4
13	Design Supervising Wooden and Modular Furniture	4

Value Added courses approved by university

	Course Title	Credit
1	LSD-2	30 Hours
2	Development of Concentration and Memory- Application of 'Raja Yoga' in daily life	30 Hours
3	Self defence for Girls	30 Hours
4	Digital Marketing	30 Hours
5	Bio-fertilizer	30 Hours
6	Gender Issues	30 Hours
7 8	Solid Waste Management Smart Agriculture	30 Hours
8	Adobe Tools	30 Hours



8 Centorion University, Invotritute of Knowledge Society Dale: 30-06-2018 The Second Board of Studies Meeting, of the School of Medra and Communication, Institute of Knowles Societies, met on 30-06-2018. The following members were present: 1. Chandrabhane Pattanayax. 2. Ashok Kumar Planda. 3. Jayant Komar Swain 4. Amaika Sankar Mishra. At the outset, Chandra bhane. Pattanayax. initiated the discussions and gave a sationale for making changes to the existing Chrononiculum After a lot of Enseussion, the following chan Wese affected and incorporated. 1. Digital Media as a specialization was added to + Bachelos's Consse 2. Gaming, Motion Capture and VFX , as topics were introduced on the cose-papers - "Digrital Midria" 3. New papers rench as Adverstring and PR, Ontrodnetion to social Medra, and Digrital Medri and film Sudnes in Wese incorporated in the Cose Consises of BA and MA. 4. Ontroduction to Point Medra and Ontroduct to Electronic Midra, Which, Wese congrinal. two papers have been morged, and made one.

9 5. Medra Sustainability and International communication, which were osignally two paptos have been merged to one paper Ondes the normanchature "Socie Medria, Society and Communication. ge 6. New electrives Such as 1. Camera operator. 2. Video Editor 3. Sound Engineer 4. Animator 5. Adobe tools and Ollustrator have been included as Electrices along with other Electives which were these earther These Five courses are also stated to be delivered as three months carrificate Programmes in Collaboration with our paster "KOSHISH". 7. It is Enggested, that, the Bachelor and Masters Consists be sepositioned to seplect new and Cutting edge technology and disections. Details are in the appendi Jayant Kumerbrain. Ashok kufenda ASY Ambrika sagikal Hoishola



CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Engineering & Technology

Department of Civil Engineering

Date: 12.06.2017

MINUTES OF BOARD OF STUDIES MEETING held on 12.06.2017

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Civil Engineering was held on 12.06.2017 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the members:

- 1. Prof. C.N.V. Satyanarayan Reddy, Professor, Dept. of Civil Eng., Andhra University
- 2. Prof. Manoj Ku Rath, Prof. Dept. of Civil Engg, CUTM, BBSR Campus
- 3. Prof. R. C. Padhy, General Major
- 4. Dr. Siba Mishra, Assosiate Prof. Dept. of Civil Engg, CUTM, BBSR Campus
- 5. Prof. Prafulla Kumar Panda, HOD Dept. of Civil Engg, CUTM, Pkd Campus
- 6. Prof. Sagarika Panda, HOD Dept. of Civil Engg, CUTM, BBSR Campus

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Civil Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 02/06/2016 were confirmed.

Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Tech, Civil Engg.

The HoD, Civil Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2017-18.

- Approval for B.Tech Civil Engg. Course structure and syllabus for basket 5(domain specific . subjects) of CBCS system .
- Reviewed CBCS system and explained about various basket and credit structure.
- All basket 5 Civil domains were examined and course structure was finalized.
- Smart City, Planning, and Design domain syllabus are updated as per the latest Software and technology being used by the industry.
- The entire domain person should have contact with industry for further feedback and progress.
- All the basket 5 Civil domains to be changed.
- The Board approved the updation of the courses important from higher studies point of view . and replacement of contents of open basket with new courses with greater practice component. (Annexure A)
- The Board approved the revision of the syllabus of the Construction Domain in keeping with the latest requirements of the industry.





Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure B)

The HoD, Department of Civil Engg. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoET Denn, SOET Conturion University of Technology & Managamer! Ehubaneswar, Khurda, Odisha-752050 Odisha

Dean, Academics iic Centurion University of Technology & Managemen Dept. of Civil Engineering

Saznika Panek HoD, Cikil Engineering

Centurion University of Technology & Management, BBSR





Annexure-A

List of new courses added

SI. No	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Concrete Technology	Skill And Employability	3
2	Geotechnical Engineering - I	Skill And Employability	3
3	Foundation Engineering	Skill And Employability	3
4	Highway Engineering	Skill And Employability	3
5	Hydrology & Irrigation	Skill And Employability	3
6	Quality Control and Risk Management in Construction	Skill And Employability	3
7	GIS and Digital Cartography	Skill And Employability	3
8	Strength of Material	Skill And Employability	3
9	Hydraulics & Hydraulic Machine	Skill And Employability	3
10	Water Supply & Sanitary Engineering	Skill And Employability	3
11	Computer Aided Design of Steel Structure	Skill And Employability	3





Annexure-B

SI. No	Course Title	Credit	(T+P+P)
1	Apparel Production & Marketing	4	0+3+1
2	Line Stitching Supervising	4	0+3+1
3	Apparel Production	4	0+3+1
4	Light Motor Vehicle Driving	4	0+3+1
5	Fork Lift Operation	4	0+3+1
6	Heavy Vehicle Technology	4	0+3+1
7	Two Wheeler Service Technology	4	0+3+1
8	Four Wheeler Service Technology	4	0+3+1
9	E-Vehicle Assembly and Service Technology	4	0+3+1
10	Robotics	4	0+3+1
11	Poultry Farming	4	0+3+1
12	CNC Programming (CAM)	4	0+3+1
13	Design Supervising Wooden and Modular Furniture	4	0+3+1

List of Skill courses (Basket) approved

List of Domain courses approved

SI. No.	Name of the Domain	Credit	Category
1	Automotive Design	40	В
2	Cloud Technology	18	В
3	Construction Planning Monitoring and Project Management	16	A/B
4	Data Analytics	20	A/B/D
5	Embedded System Design	18	В
6	Industrial Automation	24	В
7	Information Security	41	В
8	Internet Security	38	B
9	Manufacturing (Conventional, CNC And Additive)	26	A/B
10	Planning, Design & Drawing	47	B
11	Software Technology	20	A/B
12	Surveying	36	A
13	VLSI Design & Verification	42	
14	Web Technology	38	A
15	Welding And Inspection	24	A/B A/B



List of value added courses approved

SI. No	Course Title	Hrs. of input
1	LSD-2	30
2	Development of Concentration and Memory- Application of 'Raja Yoga' in daily life	30
3	Self defence for Girls	30
4	Digital Marketing	30
5	Bio-fertilizer	30
6	Gender Issues	30
7	Solid Waste Management	30
8	Smart Agriculture	30
9	Adobe Tools	30



Proceedings of Board of Studies in Civil Engineeriz dt 12.06-2017 et Jardy camp Considered the syllabus under Domains 1, 2, 83. and the following recommendations were made. Rec 1. The course on Geotech & Insert & G.I.T. to be recommended as Geotech investigation and the Topices related to Ground Emprovement to be covered in a new subject "Geo significations and ground Improvement Technics" under a separate Domain (General Domain). Recommendation-2: 10 add The following subjecte in The Proposed "General Domain" (a) Transportation Engineering (Railway, Airpht (b) Green Buildings. (c) 3D-Building Technology. (d) Geo Synthetics & Ground Improvement Jechnics. (c) Concrete Technology Recommendation - 3: Sy habus related to the above subjects Under the "General Domain" shall be decided framed by the external experts and shall be communicated to prof. M.K. Rath and poof: M.L. Narasimham. The man & Enedly receivering from one cars Recommendation-4; The sollabil of the Domain-1, Domain-2 & Domain-3 are approved. prof. C.N.V. sulyanoverana killy (Prof. M.L. 22/6/17 (Prof. M.L. Mahos mhan) (Vijagoisnon 6:) Pros & Beherry Star Mun



CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Engineering & Technology

Department of Electronics and Communication Engineering

Date: 12.06.2017

MINUTES OF BOARD OF STUDIES MEETING held on 12.06.2017

Venue: Room 205, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Electronics and Communication Engineering was held on 12.06.2017 at 11 a.m. in the Room no. 205, CUTM Bhubaneswar. The following are the members:

- 1. Mr. Managobinda Mishra, Director, Nemhans
- 2. Dr. D. P. Acharya, NIT Rourkela
- 3. Dr. S. K. Mandal, HoD, SoET
- 4. Dr. Satyasis Mishra, Dept. ECE
- 5. Dr. Satyanarayan Padhi, Asst. Prof., ECE
- 6. Dr. Prasant Kumar Mohanty, Convenor of BoS & Dean, SoET

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Electronics and Communication Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 02.6.2016 were confirmed.

Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Tech, **Electronics and Communucation Engg.**

- The HoD, Electronics and Communucation Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2017-18.
- The syllabus of 3rd to 8th semester of B. Tech, Electronics and Communication Engg. was considered and approved by the Board.
- Courses that can be executed in Practice mode were placed for approval to be reconfigured to Theory + Practice and Project + Practice.
- The Board approved the changes suggested in the existing syllabus and some new courses added as per the latest Software and technology being used by the industry .(Annex-1)





Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annex 2 and Annex 3)

The HoD, Department of Electronics and Communucation Engg. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Sayan

Dean, SoET Dean, Academics Dean, SOET Dean - Academic Centurion University of Technology & Manager@enturion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050 Odisha

HoD, Electronics & Communication Engg.





List of new courses added

SI. No	Course Title	Type(Skill/Employa bility/Entrepreneurs hip	Credit
	Basket 3		
1	Sensors & IoT	Skill	3
	Basket 4		
2	Embedded Software and Development	Employability	4
3	Microwave and Radar Communication	Employability	4
4	Antenna and Wave Propagation	Employability	3
	Basket 5		
5	Linux System Programming	Employability	5
6	Embedded Linux using Beagle Bone Black	Employability	5
7	Linux Kernel & Device Driver	Employability	3
8	Computer Vision	Employability	2
9	Embedded System Design using LABVIEW	Employability	5
10	Satellite and TV Communication	Employability	2
11	4G LTE and 5G Communication	Employability	2
12	Digital Image Processing	Employability	5
13	Antenna design and manufacturing	Employability	3
14	Information Theory & Coding	Skill	4
15	Mobile Communication	Employability	4
16	MATLAB for Electronics	Skill	3
17	PCB Design and Analysis	Skill	3

Syllabus revised

SI. No	Course Title	Туре	Credi t	Details of modification
1	Electromagnetic Field Theory and Transmission line	Employabilit y	4	Module VII is updated





Group A : Agriculture/ Agri Engineering/Phyto pharma/ Dairy Tech/ Fisheries/ Biological Sciences

Group B: All other Engineering/Physical and Mathematical Science/Vocational or Skills Group C: Pharmacy and Allied Health

Group D: Management & Media and Communication

SI. No	Name of the Domain	Credit	Category	Year of introduction
1	Automotive Design	40	В	2017
2	Cloud Technology	18	В	2017
3	Construction Planning Monitoring and Project Management	16	A/B	2017
4	Data Analytics	20	A/B/D	2017
5	Embedded System Design	18	В	2017
6	Industrial Automation	24	В	2017
7	Information Security	41	В	2017
8	Internet Security	38	В	2017
9	Manufacturing (Conventional, CNC And Additive)	26	A/B	2017
10	Planning, Design & Drawing	47	В	2017
11	Software Technology	20	A/B	2017
12	Surveying	36	А	2017
13	VLSI Design & Verification	42	А	2017
14	Web Technology	38	A/B	2017
15	Welding And Inspection	24	A/B	2017





Skill Courses approved by university

S No	Course	Course Code	Credit
1	Apparel Production &		4
•	Marketing	CUTM3029	
2	Line Stitching		4
	Supervising	CUTM3030	
3	Apparel Production	CUTM3031	4
4	Light Motor Vehicle		4
	Driving	CUTM3032	
5	Fork Lift Operation	CUTM3033	4
6	Heavy Vehicle		4
	Technology	CUTM3034	
7	Two Wheeler Service	_	4
	Technology	CUTM3035	
8	Four Wheeler Service		4
	Technology	CUTM3036	
9	E-Vehicle Assembly		4
	and Service		
	Technology	CUTM3037	
10	Robotics	CUTM3038	4
11	Poultry Farming	CUTM3039	4
12	CNC Programming		4
~	(CAM)	CUTM3040	
13	Design Supervising		4
	Wooden and Modular		
	Furniture	CUTM3041	





Annexure 4

Value Added courses offered by the University

S No	Couse	Course code	Credit Hours
1	LSD-2	CUVA0011	30 Hours
2	Development of Concentration and Memory- Application of 'Raja Yoga' in daily life	CUVA0025	30 Hours
3	Self defence for Girls	CUVA0026	30 Hours
4	Digital Marketing	CUVA0027	30 Hours
5	Bio-fertilizer	CUVA0028	30 Hours
6	Gender Issues	CUVA0029	30 Hours
7	Solid Waste Management	CUVA0030	30 Hours
8	Smart Agriculture	CUVA0031	30 Hours
9	Adobe Tools	CUVA0032	30 Hours



Date 3-12-06-2017 Venue :- CUTM, BBSR 15 Preparoution of cousse structure and syllabus of B.Tech CBCS for ECE branch 2017-18 onwards. Bote ? - Reversed course stoucture of 4th year for 2014-18 batch > Following tracks / domains are added to Baskel-V of ÉCE is Domoion course ded system - VLSI Design and verification - communication System. Skill course iii) orate + M. Tech courses > VIST Design (Regular) -) M. Tech by Releasch 'and ' i) communcication system Engineerog ii) VLSJ Design. Based on syllabus and pedagogy, BOS members suggested Following Points i>To include RF engineering and drive test in. Communit cartion domain. is To conclude Practical component (field based), study on 46 "Eechnology. 1) Comment on VLSI and embedded system domain 23 attached. I'll Domain of Solar Cenergy Syllabours is discurred with the experts from ECE & Mechaniel as the course is inderdisciplinary. suggestion are incorporates.

14 CUTAPLACE Blinbaresum SIGNAT Shi. NAME Dr. S.K. Mandal NEMHANS, Bhubaneswal / 2. Mr. Managobinda Mishra CUTM, Bhuberresurr, EEE S. Mashina. 3. Dr. Sadyasis Misha 4. Prof Satya Narrayan Rodby CUTM, Paralarhomande Gadhy NIT, Rouskela prefer mail 5. Dr. D. P. Acharya



School of Engineering & Technology

Department of Mechanical Engineering

Date: 12.06.2017

MINUTES OF BOARD OF STUDIES MEETING held on 12.06.2017

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Mechanical Engineering was held on 12.06.2017 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the members:

- 1. Prof. S.K. Mohapatra , IIT, Bhubaneswar
- 2. Shri Ali Kishore Patnaik, Managing Director, Odisha Diesel(Ashok Layland)
- 3. Prof. P.S. Rao, Dean Research, CUTM Paralakhemundi
- 4. Prof. PSV Ramana Rao, Dean, CUTM, AP
- 5. Prof.Ipsita Mishra, HOD, ME, BBSR
- 6. Dr. R.C Mohanty, Professor, SOET, Mechanical
- 7. Mr. Sudeep Kumar Singh, CUTM, Jatani Campus
- 8. Prof. B.P. Mishra, Dean, SOET, Paralakhemundi
- 9. Prof. D.Raghuveer, HOD, ME, Paralakhemundi
- 10. Prof.Babuli Jena, Assistant Professor
- 11. Mr.Mukundjee Pandey Assistant Professor
- 12. Mr. Manas Ranjan Padhy Assistant Professor
- 13. Mr. Girija Nanda Arka Assistant Professor
- 14. Mr. Chandan Kumar Jena, Student
- 15. Mr. Ravi Kumar, Student
- 16. Mr. Hrusikesh Mishra, Alumni
- 17. Mr. Mohit Singh, Alumni

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Mechanical Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 2/06/2016 were confirmed.

Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Tech, Mechanical Engg.

The HoD, Mechanical Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2017-18.

- Approval for B.Tech Mechanical Engg. Course structure and syllabus for basket 5(domain specific subjects) of CBCS system .
- Reviewed CBCS system and explained about various basket and credit structure.





- All basket 5 mechanical domains were examined and course structure was finalized.
- In Automobile domain maintenance of Diesel engine forklift is to be supplemented with hydraulic equipment such as escalators and loader.
- The entire domain person should have contact with industry for further feedback and progress.
- Basic metallurgy to be included in basket 3 as per expert.
- All the basket 5 mechanical domains to be changed.
- Automobile domain to be supplemented by hydraulic equipment courses.
- 3D experience domain is introduced which was highly appreciated by experts.
- The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component. List of new courses added in (Annexure A.)
- The Board approved the revision of the syllaubus of the Construction Domain in keeping with the latest requirements of the industry.
- The Board approved the changes suggested in the Basic Metallurgy, Geometric Modelling, Metrology, Workshop Practice, Digital Manufacturing, Fluid Mechanics and Heat Transfer, Operation and Maintenance of Diesel Forklift and Hydraulic Equipment as per the latest Software and technology being used by the industry. List of existing courses where syllabus was revised in (Annexure B)

Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members.(Annexure C)

The HoD, Department of Mechanical Engg. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoET Dean, SOET Centurion University of Technology & kit Odisha

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Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050

Lisha

HoD, Mechanical Engineering





Annexure-A

SI. No		Type(Skill/Employability/Entrepreneurship)	Credit
1	Manufacturing	Skill And Employability	3
	Technology 1		
2	Manufacturing	Skill And Employability	3
	Technology 2		
3	Internal Combustion	Skill And Employability	3
	Engines		
4	Renewable Energy	Skill And Employability	3
	Systems		1.0000
5	Fluid Power	Skill And Employability	3
6	Mechanics of Machines	Skill And Employability	3
7	Fluid Mechanics and	Skill And Employability	3
	Heat Transfer		
8	Strength of Material	Skill And Employability	3
9	Finite Element Analysis	Skill And Employability	3
10	Introduction to	Skill And Employability	3
1000	Refrigeration & HVAC		
11	Control System for	Skill And Employability	3
	Refrigeration & Air		10
2020	Conditioning		
12	Design and Maintenance	Skill And Employability	3
	of Automobile Air		
	Conditioning		
13	Maintenance and Testing	Skill And Employability	3
	of Refrigerator	8	8
14	Maintenance and Testing	Skill And Employability	3
	of Coolers, Window and		8
	Split AC		
15	Design and Maintenance	Skill And Employability	3
	of Central Air		~
	Conditioning Plant		
16	Design and Maintenance	Skill And Employability	3
	of Cold Storage	0 25-1 •	5
17	Joining Processes &	Skill And Employability	3
	Technology		5
18	Arc Welding, Gas	Skill And Employability	3
	Welding & Brazing		5
19	Metal Transfer & Weld	Skill And Employability	2
St.	Metallurgy		3
20	Design of Welded Joints	Skill And Employability	2
21	Welding of Stainless	Skill And Employability	3
1.1.	Steel, Aluminium,	Employaomty	3
	Copper, Cast Iron and		
	Hard Surfacing		
22	Testing of Welded Joints	Skill And Employability	
	(DT, NDT &	Skill And Employability	3
S. S. C.	Microstructure)		
23	Introduction to	Skill And Employ 199	
125.	Automobile Engineering	Skill And Employability	3





24	Subsystems of Automobile	Skill And Employability	3
25	Design and Maintenance of Electric Vehicles	Skill And Employability	3
26	Entrepreneurship Opportunities in Automobile Trade	Skill And Employability	3
27	Maintenance of 4 Wheeler	Skill And Employability	3
28	Maintenance of 2 Wheeler	Skill And Employability	3
29	Operation and Maintenance of Diesel Forklift and Hydraulic Equipments	Skill And Employability	3
30	Project	Skill And Employability	3
31	Internship	Skill And Employability	3
32	Courses of 3D Experience Domain	Skill and Employability	35







Annexure-B

List of existing courses where syllabus was changed

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
1 Basic Metallurgy		1	Course type was changed with little modification in content.
2	Geometric Modeling	1	Course type was changed with little modification in content.
3	Metrology	1	Course type was changed with little modification in content.
4	Workshop Practice	1	Course name was been changed with little modification in content.
5	Digital Manufacturing	1	Course type was changed with little modification in content.
6	Fluid Mechanics and Heat Transfer	1	Course type was changed with little modification in content.
7	Operation and Maintenance of Diesel Forklift and Hydraulic Equipment	2	Some practice have been included





Annexure-C

List of Skill courses (Basket) approved

SI. No	Course Title	Credit	(T+P+P)
1	Apparel Production & Marketing	4	0+3+1
2	Line Stitching Supervising	4	0+3+1
3	Apparel Production	4	0+3+1
4	Light Motor Vehicle Driving	4	0+3+1
5	Fork Lift Operation	4	0+3+1
6	Heavy Vehicle Technology	4	0+3+1
7	Two Wheeler Service Technology	4	0+3+1
8	Four Wheeler Service Technology	4	0+3+1
9	E-Vehicle Assembly and Service Technology	4	0+3+1
10	Robotics	4	0+3+1
11	Poultry Farming	4	0+3+1
12	CNC Programming (CAM)	4	0+3+1
13	Design Supervising Wooden and Modular Furniture	4	0+3+1

List of Domain courses approved

SI. No	Domain Course Title	Credit	(T+P+P)
1	Welding and Inspection	24	8+8+6
2	Manufacturing (Conventional, CNC And additive)	26	2+16+8

List of value added courses approved

SI. No	Course Title	Hrs. of input
1	LSD-2	30
2	Development of Concentration and Memory- Application of 'Raja Yoga' in daily life	30
3	Self defence for Girls	30
4	Digital Marketing	30
5	Bio-fertilizer	30
6	Gender Issues	30
7	Solid Waste Management	30
8	Smart Agriculture	30
9	Adobe Tools	30

* proceedings of 4"Bost meeting for the session

Agenda - Alkeval for Bitech mechanical engineering Cause shuchine of Syllosus for Bostet-I (Domain specific subjects) for CBCS for acodemic year . and migech by Rolearch

Nenue: - 12-6-2017 Campus; gATINS,

Mambes present:-) Prof. S.K.-Maha palva, JSJ. Bushaneswar) Shri. Ali Eishar potnaix, managing durots, orisis aliefel, (Athor layland) i) Prof. RS. Roo, DEAN ed D, parlache mindle w) prof. B.P. Mishra, DEAN, SOEF, por la planmindle s) Prof. R.C. Mahan H, sept of Meale Engineering, (IF i) MM. Epster Mishra, Hop, Dept of Neally, (IF i) MM. Epster Mishra, Hop, Dept of Mealer, Portachemic Almer Babuli Kuma Jena, Dept of Mealer, 197 r) Mr. Manas Ranjan Padki, Dept of Mealer, (IF r) Mr. G.N. ARKa, Dept of Mealer, CIF i) Mr. Subeep Single, Dept of Mealer, CIF i) Mukundjee Panday, Dept of Mealer, CIF

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School of Applied Sciences

Department of Botany

Date: 12.06.2017

MINUTES OF BOARD OF STUDIES MEETING held on 12.06.2017

Venue: CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Botany was held on 12.06.2017 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following members are the board members:

- 1. Prof. Padan Kumar Jena, Ravenshaw University (External expert)
- 2. Registrar, CUTM, Bhubaneswar (Chairperson)
- 3. Prof. Susanta Kumar Biswal, Dean, SoAS, CUTM, Bhubaneswar (Member)
- 4. Miss Kalpita Bhatta, Lecturer, Department of Botany, SoAS, CUTM, Bhubaneswar (Member)

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Botany presented the achievements and improvements of the department in the areas of academics, research and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 2nd June, 2016 were confirmed.

Agenda 2: Discussion and introduction of II, IV, V and VI semester courses in the Curriculum of B.Sc. (Botany) to be approved.

- Ms. Kalpita Bhatta, lecturer, Department of Botany gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for the courses and programme to be implemented from the Academic Year 2017-18.
- The syllabus of 3rd to 6th semester of B. Sc. Botany (Hons) (CBCS) pattern was prepared as per UGC guidelines with some minor changes, considered and approved by the Board. (Annexure I)

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Centurion University of Technology & Management

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Board of Studies Meeting



Agenda 3: Introduction of new programme (M.Sc. Botany)

- The M.Sc. Botany programme was introduced as per the suggestions made by the various stakeholders and the syllabus for I, II, III and IV semester was prepared and approved after necessary modification as per UGC Guideline. (Annexure-II)
- The list of practical to be included for different semesters was prepared keeping in view the availability of infrastructure, specimen and local needs.
- Invited external experts suggested for incorporation of two more subject experts for BoS meeting.

Agenda 4: Inclusion of courses on life skills and value addition

• Board members agreed for inclusion of four skill courses in B.Sc. Botany (Hons.) and five skill courses in M. Sc. Botany and approved by the Board members. It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well-being. The same was agreed upon and approved by the Board members. (Annexure-III)

Ms. Kalpita Bhatta, lecturer, Department of Botany extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

-) 2.6.2017 Dean, SoAS

DEAN School of Applied Sciences CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMEC Bhubaneswar,Odisha

Dean, Academics Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050





Annexure I

B. Sc. Botany Syllabus (3rd to 6th semester)

Semester-III

SI. No.	Code	Subject Name	Type (L-T-P)	Credits
1	BSBO2301	Anatomy of Angiosperms	3-1-3	6
,	BSBO2302	Economic Botany	3-1-3	6
3	BSB02303	Basies of Genetics	3-1-3	6
4	GE-3 [#]	Inter Disciplinary Subject		6
5	SEC-1"	Skill Enhancement Course-1	()-()-3	2
		Total		26

Semester-IV

SI. No.	Code	Subject Name	Type (L-T-P)	Credits
1	BSBO2401	Molecular Biology	3-1-3	6
2	BSB02402	Plant Ecology and Phytogeography	3-1-3	6
3	BSBO2403	Plant Systematics	3-1-3	6
4	GE-4@	Inter Disciplinary Subject		6
5	SEC -2#	Skill Enhancement Course-2	0-0-3	2
		Total		26

Semester- V

SI. No	Code	Subject Name	Type (L-T-P)	Credits
1	BSBO3501	Reproductive Biology of Angiosperm	3-1-3	6
2	BSBO3502	Plant Physiology	3-1-3	6
3	DSE*	Discipline Specific Elective-1		6
4	DSE*	Discipline Specific Elective-2		6
		Total		24

Semester- VI

SI. No.	Code	Subject Name	Type (L-T-P)	Credits
1	BSB03601		3-1-3	6
2	BSBO3602	Plant Biotechnology	3-1-3	6
3	DSE*	Discipline Specific Elective-3		6
4	DSE*	Discipline Specific Elective-4		6
		Total		24

SI. No.	Code	Subject Name	Type (L-T-P)	Credits
1	BSBO3503	DSE I Analytical Techniques in Plant Sciences	3-1-3	6
2	BSBO3504	DSE II Biostatistics	3-1-3	6
3	BSBO3603	DSE III Bioinformatics	3-1-3	6
4	BSBO3604	DSE IV Natural Resource Management	3-1-3	6

Discipline Specific Elective Courses (DSE)

Centurion University of Technology & Management

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Annexure II

M. Sc. Botany Syllabus (1st to 4th semester) Course Structure-2017

Semester-1

	Code	Subject Name	Type (L-T-P)	Credits
Sl. No.	A CONTRACTOR OF THE OWNER OWNER OF THE OWNER OWNE	Microbiology	3-1-0	04
	MSBO1101	Plant Diversity	3-1-0	04
2	MSBO1102	and the second	3-1-0	04
3	MSBO1103	Cell Biology	3-1-0	04
4	MSB01104	Plant Ecology	0-0-6	04
5	MSBO1105	Botany Laboratory-I	0-0-3	04
		Skill I	0-0-3	24
		Total		24

Semester-II

SI, No.	Code	Subject Name	Type (L-T-P)	Credits
1.	MSBO1201	Genetics and Molecular Biology	3-1-0	04
2.	MSBO1202	Plant Physiology, Metabolism, and Biochemistry	3-1-0	04
3.	MSBO1203	Biostatics and Instrumentation	3-1-0	04
4.	MSBO1204	Environmental Pollution and Management	3-1-0	04
5.	MSBO1205	Botany Laboratory-II	0-0-6	04
		Skill II	0-0-3	04
	· · · · · · · · · · · · · · · · · · ·	Total		24

Semester-III

Sl. No.	Code	Subject Name	Type (L-T-P)	Credits
1.	MSBO2301	Systematics and Pathology	3-1-0	04
2.	MSBO2302	Natural Resource Management and Utilization	3-1-0	04
3.	MSBO2303	Embryology and Anatomy	3-1-0	04
4.	MSBO2304	Techniques of Tissue Culture	3-1-0	04
5.	MSBO2305	Botany Laboratory-III	0-0-6	04
6.	MSRM5101	Introduction to Research	2-0-0	02
7.	MSBP2301	Scientific visit	0-0-3	02
Free State		Total		24

Semester-IV

SI. No.	Code	Subject Name	Type (L-T-P)	Credits
1.	MSBO2401	Plant Biotechnology and Bioinformatics	3-1-0	04
2.	MSBO2402	Eco toxicology & Waste Management		
3.	MSBO2403	Microbial Technology & Physiology	3-1-0	04
4.	MSBP2401	Project/Dissertation	3-1-0	04
5.	MSBS2401	Seminar	0-0-6	08
100			0-0-3	04
		Total		24

Centurion University of Technology & Management

Page | 4



Signature Place Name SINO Revenshow Dr. PedenkJena Ine 12/6/17 University cuttace Ser the Ker Ker Kalpita Bhalta CUTM, Bhubaun Kalpita Palith 2. mall I land left somedian steament A year on E

MINUTES OF BoS MEETINGS

(For Academic Sersion (2017-18)

The Board of studies meeting in applied sciences (Botany) was held on 12/6/17 at CUTM Campus Bhubaneswar.

The following members were present:

- 1. Dr.Padan Kr. Jena .Associate Prof.of Botany, Revenshwa University, Cuttack.
- 2. MS. Kalpita Bhatta, Lecturer in Botany, CUTM, Bhubaneswar.
 - i) The B.Sc Botany (Hons) syllabus for III,IV,V & VI semester (CBCS) pattern was prepared and approved after necessary modifications.
 - ii) The syllabus were prepared as per UGC guidelines with some minor changes or modifications.
 - iii) The M.Sc Botany syllabus for I,II,III&IV semester was prepared and approved after necessary modification as per UGC Guideline.
 - iv) The list of practical to be included for different semesters were prepared keeping in view the availability of infrastructure , specimen and local needs.
 - v) Invited experts suggested for incorporation of two more subject experts for BOS meeting .

(Paran 14. Jena)

Kalpita Bheth 12/6/17



School of Applied Sciences

Department of Physics

Date: 12.06.2017

MINUTES OF BOARD OF STUDIES MEETING held on 12.06.2017

Venue: CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Physics was held on 12.06.2017 at 11 a.m. in CUTM Bhubaneswar. The following are the board members:

- 1. Dr. Goutam Tripathy, Prof IOP, Bhubaneswar, External expert
- 2. Dr. S.K.Biswal, Dean SoAS
- 3. Dr. Anita Patra, Registrar, CUTM
- 4. Dr. Padmaja Patnaik, HoD, Department of Physics, CUTM BBSR
- 5. Dr. J.K.Meher, Prof, CUTM Bolangir
- 6. Mr. Gyanendra kumar Misra, Lecturer, CUTM Bolangir

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. The Head of the Department of Physics presented the achievements and improvements of the department in the areas of academics, research and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 02.06.2016 were confirmed.

Agenda 2: Discussion and approval on revision required in the Curriculum of B.Sc. and M.Sc. Physics.

- The HoD, Physics, gave a presentation on the feedback received on curriculum outlining the . suggestions made by the various stakeholders. Based on this, the Board accepted and approved the revised course for the Academic Year 2017-18.
- The syllabus of B.Sc. CBCS courses are designed for 3rd, 4th, 5th and 6th semester and approved by the Board. (Annexure-1)
- The structure of M.Sc syllabus has been modified for the 1st to 4th semester for the newly admitted batch. Two specializations- Electronics and Material Science were put for approval. (Annexure-2)
- The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component.
- Courses that can be executed in Practice mode were placed for approval to be reconfigured as Theory + Practice, Theory + Practice+ Project or Project + Practice type.





Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students will take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure-3)

The HoD, Department of Physics. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

200 Dean SoAS Dean, Academics 12.6.201

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050





Annexure-1

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List of new courses added

new c	ourses added		
SI. N	Course Title	Type(Skill Employability/E ntrepreneurship higher studies/Industry)	Credit
0		studies mulasty	1
	. Physics		
SEM	ESTER III	Skill	2
1	Skill Enhancement Course-1	Skill	6
2	Mathematical Physics II		6
3	Electricity and Magnetism	Employability	6
4	Analog systems and Applications	Employability	6
5	Inter Disciplinary Subject	Employability	
SEM	1ESTER IV	C1 (1)	2
1	Skill Enhancement Course-2	Skill	6
2	Mathematical Physics III	Skill Employability & Skill	6
3	Elements of Modern Physics	Employability & Skill	6
4	Digital systems and Applications	Employability & SKII	6
5	Inter Disciplinary Subject	Employability	
SEN	MESTER V	East a deilite & Shill	6
1	Quantum Mechanics & Applications	Employability & Skill Employability & Skill	6
2	Solid State Physics	Employability	6
3	Discipline Specific Elective-1		6
4	Discipline Specific Elective-2	Employability	
SE	MESTER VI	Skill	6
1	Electro-magnetic Theory	Skill	6
2	Statistical Mechanics	Employability	6
3	Discipline Specific Elective-3	Employability	6
4	Discipline Specific Elective-4	1 Employability	
Sk	III Enhancement Courses	Skill	2
1	Physics Workshop Skills	Skill	2 2 2 2 2
2	Computational Physics Skills		2
3	Electrical circuits and Network Skills	Skill	2
4	Basic Instrumentation Skills	Skill	2
5	Applied Optics	SKIII	
Di	scipline Specific Elective	Employability & Skill	6
1	Experimental Techniques	Employability & Skill	
2	Embedded systems- Introduction to	Employability & SKII	6
57.5	Microcontroller	Employability & Skill	_
3	Physics of Devices and	Employability & Skill	6
1	Communication	Skill	6
4	Advanced Mathematical Physics-I	Employability	6
5		Employability	6
6		Employability	6
7		Employability	6
8		Employability	6
	0 Astronomy and Astrophysics	Employability & Skill	6
	1 Dissertation	Employability & Skill	6





Annexure-2

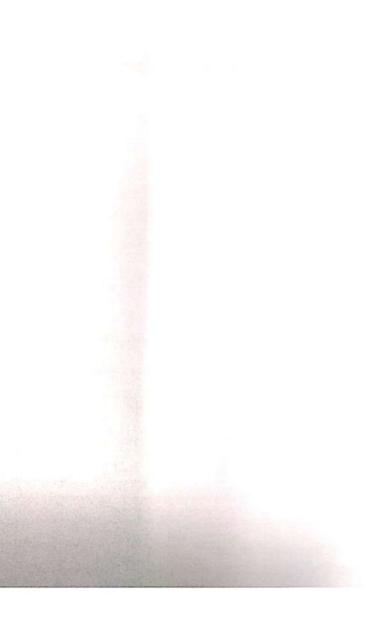
New (Modified) syllabus for M.Sc. Physics (For 2017-2019 batch)

SI. N	Course Title	Type(Skill/Employa bility/Entrepreneursh ip/higher	Credit
0		studies/Industry)	
	Semester-I		
1	Mathematical Physics	Skill	4
2	Classical Mechanics	Employability	4
3	Quantum Physics I	Employability	4
4	Electrodynamics & Special Relativity	Employability	4
5	Modern Physics Lab	Skill	4
6	Skill I	Skill	4
	Semester-II		
1		Employability	4
1	Statistical Physics Solid State Physics	Employability	4
2 3	Electronics Devices and Circuits	Employability	4
11211	Computational Physics	Skill	4
4	Computational Physics Lab	Skill	2
5	Electronics Devices Lab	Skill	2
7	Skill II	Skill	4
/	Skii II Semester-II	I	
1	Atomic and Molecular Physics	Employability	4
2	Nuclear and Particle Physics	Employability	4
3	Introduction to Research	Employability	2
<u>3</u> 4	Quantum Physics II	Employability	4
5	Seminar I	Skill	2
6	Special Paper I	Employability	4
7	Special Paper Lab I	Skill	4
/	Special raper Eus . Semester-I	V	
1	Special paper II	Employability	4
2	Special paper III	Employability	4
3	Special paper Lab II	Skill	4
4	Seminar II	Skill	4
5	Project/Dissertation	Employability & Skill	8
1	Stream-1: Electronics	Special Dapar	
1	Microprocessor and Interfacing devices	Employability	4
1		Skill	
2	Microprocessor lab		
3	Electronics Communication System	Employability	
4	Embedded System	Employability	
5	Electronics simulation Lab Stream-2: Material Scier	Skill	
1			
1292.1	Soft Matter Physics	Employability Skill	
2	Materials Lab I	N L N L	





4	Advanced Solid State Physics	Employability	4
5	Materials Lab II	Skill	4







Annexure-3

Skill Courses approved by university

SI. No.	Course Title	Credit
		4
1	Apparel Production & Marketing	4
2	Line Stitching Supervising	4
3	Apparel Production	4
4	Light Motor Vehicle Driving	4
5	Fork Lift Operation	4
6	Heavy Vehicle Technology	4
7	Two Wheeler Service Technology	4
8	Four Wheeler Service Technology	
9	E-Vehicle Assembly and Service Technology	4
10	Robotics	4
11	Poultry Farming	4
12	CNC Programming (CAM)	4
13	Design Supervising Wooden and Modular Furniture	4

Value Added courses offered by university

	Course Title	Credit
1	LSD-2	30 Hours
2	Development of Concentration and Memory- Application of 'Raja Yoga' in daily life	30 Hours
3	Self-defence for Girls	30 Hours
4	Digital Marketing	30 Hours
5	Bio-fertilizer	30 Hours
6	Gender Issues	30 Hours
7	Solid Waste Management	30 Hours
8	Smart Agriculture	30 Hours
9	Adobe Tools	30 Hours

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT



Board of studies meeting held on 12/06/2017 11 SI Members Present: -1. Dr. Goutan Tripalhy, Post IOP, Bhubareswar As external expert. 2. Dr. Padmaja Paliaik, Aset port, CUTM, Jatai 3. Dr. J.K. Meher, Prof, CUTM, Bolargix 4. Gyanerdra kumer Michra, Eectover, CVTM, Bolarger Agenda of the meeting :-1. For BSC programme + BSC CBCS courses are designed for 3rd, HIM, 515 & 615 semesters. All core papers, elective papers are designed. 2. For MSC programme - And Syllabus Structure has been modified for the 1st, 2nd, 3rd & 4th Senester MGC Physics. Low specializations are to be given, Electronics and Material science. New papers are introduced keeping latert brends and different exams for students. Deliberation 1. B.S.C. by Mabors finalised and approved 2. M.S.C. by Mabors finalised for 2017 admitted batch tinalised and approved. 3. MSC syllabus for 2016 batch is slightly modified by applacing fen papera. 4. Some charges has been baggested by the expert, which will be made in the detailed syllabers 4. M. Phill is Physics is introduced from this year. Syllabus is findized. Podraja G. Tipelly of John Joseph 12/04/2017



School of Paramedics and Allied Health Sciences

Date: 12/06/2017

MINUTES OF BOARD OF STUDIES MEETING held on 12/06/2017

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 AM

Board of Studies (BoS) meeting for School of Paramedics and Allied Health Sciences (SoPAHS) was held on 12/06/2017 at 11 AM in the Board Room, CUTM Bhubaneswar. The following are the board members:

- 1. Dr. P. C. Mohapatra, Ophthalmologist
- 2. Dr. Bachaspati Dash, Radiologist
- 3. Dr. Debasish Sahoo, MD, Microbiology
- 4. Dr. Ashish Kumar Sen, Adjunct Professor, SoPAHS
- 5. Prof. Sunil Kumar Jha, Dean, SoPAHS
- 6. Mr. Vivek Kumar Sinha, Lecturer of Optometry
- 7. Ms. Priyanka Parbin, Lecturer of Microbiology
- 8. Ms. Sansita Mohakud, Lecturer

All the members were welcomed to the session by the Chairperson and were briefed regarding the purpose of the meeting. Thereafter, the Dean of SoPAHS presented on the achievements of the department in terms of academics and infrastructure.

Following are the programs offered by SoPAHS:

MSc Medical Laboratory Technology (MSc MLT) MSc Applied and Clinical Microbiology (MSc CMB) BSc Medical Laboratory Technology (BSc MLT) BSc Clinical Microbiology (BSc CMB) BSc Radiology and Imaging Technology (BSc RIT) BSc Optometry (BSc Optom)

Agenda of the meeting:

Agenda 1: The minutes of the last meeting of the BoS held on 02/06/2016 were confirmed.

Agenda 2: Discussion and approval on the content of syllabus for various courses of SoPAHS.





The Dean of SoPAHS presented on the feedback received on the curriculum of the school, from various stakeholders. Further, he presented the syllabus for incorporation for the Academic session 2017-18.

- The syllabus was highly appreciated as the courses were relevant to the need of the health . industry.
- The Board approved the updation of the courses, wherein the syllabus for 3rd, 4th, 5th and 6th ٠ semester of BSc MLT and BSc RIT were approved and syllabus for 313 and 4th semester of MSc MLT and MSc CMB were approved by the board.
- The new syllabus for BSc CMB was approved by the committee.
- List of new courses are added in Annexure A.
- The syllabus for BSc Optometry was approved without any further revision.
- It was discussed during the meeting that the core courses should focus on clinical orientation. ٠

The Dean, SoPAHS extended sincere thanks to all the members of the Board.

The meeting ended with a vote of thanks to the Chair.

Rollfar Jha DEAN

chool of Paramedics & Allied Health Sciences enturion University of Technology & Management Bhubaneswar, Odisha-752050

Barente

Dean, Academics Dean - Academic Centurion University of Technology & Management Ehubaneswar, Khurda, Odisha-752050





List of new courses added

SI. No	Course Title	Type (Skill/ Employability/ Entrepreneurship)	Credit
-	BSc RIT		
1	Applied Radiation Physics & Radiation Protection	Employability	4
2	Advanced Radiographic Techniques	Employability	4
3	Special Radiographic Technique & Procedures	Employability	4
4	Basic Equipments In Radiodiagnosis	Entrepreneurship	4
5	Medical Imaging Lab II	Entrepreneurship	4
6	Communicative Practice Laboratory 2	Skill	2
7	Radiotherapy & Branchy Therapy Techniques In Malignant And Non Malignant Disease	Employability	4
8	Applied Equipments Of Radio Diagnosis	Entrepreneurship	4
9	Interventional Radiology & Drug Used In Diagnostic Radiology	Employability	4
10	Human Values & Professional Ethics	Skill	4
10 11	Basic Computer And Information	Skill	4
12	Science Hospital Posting-Medical Imaging Lab	Entrepreneurship	4
13	III Basic Of X-Ray and Digital X-Ray	Employability	4
14	Imaging Computerized Tomography (CT Scanning) Method and Procedure	Employability	4
	Basic Of Magnetic Resonance Imaging	Employability	4
.5	Orientation In Clinical Sciences Course	Employability	4
	Contents	Entrepreneurship	4
10.5	Medical Imaging Lab IV	Skill	4
8	Medical Law and Ethics	Skill	12
9	Project		12
0	Internship	Skill	
	BSc MLT	Employability	4
	Immunology	Employability	4
	Applied Hematology	Employability	4
	Molecular Biology	Employability	
	Basic Histology	Entrepreneurship	4
	Community Practice Laboratory- 2	Skill	2
	mmunology, Histology Lab	Skill	4





	Parasitology	Employability	4	
		1:	2	
	Analytical Biochemistry	Entrepreneurship	4	
	Advance Hematology	Entrepreneurship	4	
0	Immunopathology	Employability	4	
1	Human Values & Professional Ethics	Skill	4	
2	Basic Computers and Information Science	Skill		
.3	Biochemistry lab	Entrepreneurship	4	
.4	Transfusion Medicine	Employability	4	
.4 15	Medical Laboratory Management	Enterpreunership	4	
	Immunopathology	Employability	4	
16 17	Introduction To Quality and Patient	Employability	4	
	Safety Medical Law and Ethics	Skill	4	
18		Employability	4	
19	Mycology & Virology	Skill	4	
20	Mycology & Virology Lab	Skill	12	
21	Project	Skill	12	
22	Internship	58.07		
	MSc MLT	Employability	4	
1	Immunology, Bacterial Serology & Parasitology	Entrepreneurship	4	
2	Clinical Hematology	Linteproneuromp		
3	Biochemistry	Employability	4	
4	Histology	Entrepreneurship	4	
5		Skill	4	
6	Research Methodology Communicative Practice	Skill	2	
7	Laboratory–II Immunology, Biochemistry & Histopathology Lab	Employability	4	
8		Skill		
9	Project Internship	Skill		
	MSc CMB			
1	Immunology & Virology	Employability		
2	Diagnostic Bacteriology Entrepreneurship			
3	Biochemistry	Employability		
4	Diventinistry	Entrepreneurship		





	UNIVERSITY	Skill	4
,	Research Methodology		2
;	Communicative Practice Laboratory-II	Skill	2
7	Immunology, Histopathology & Biochemistry Lab	Entrepreneurship	4
3		Skill	12
)	Project Internship	Skill	12
	BSc CMB		
1	Introductory Cell Biology	Employability	4
2	Human Anatomy & Physiology	Employability	4
3		Entrepreneurship	4
4	Basic Haematology	Entrepreneurship	4
5	Instrumentation & Techniques Human Anatomy, Physiology & Haematology Practical	Entrepreneurship	4
6	Environmental Science	Skill	4
7	Foundations of English	Skill	2
8	Communication	Employability	4
9	General Microbiology	Entrepreneurship	4
10	Clinical Biochemistry	Entrepreneurship	4
11	Clinical Pathology & Diagnosis Clinical Pathology, Biochemistry &Microbiology Practical	Entrepreneurship	4
12	Immunology	Employability	
13	Systemic Bacteriology	Employability	
14		Employability	
15	Molecular Biology	Employability	
16	Systemic Virology & Mycology Communicative Practice Laboratory- II	Skill	
17	Bacteriology, Virology &Mycology Practical	Skill	
18	Public Heath Microbiology	Employability	





19	Pharmaceutical Microbiology	Employability	4
20	Industrial Microbiology	Entrepreneurship	4
21	Biochemistry	Employability	4
22	Basic Computer & Information technique	Employability	4
23	Industrial, Public Health Microbiology & Biochemistry Lab.	Skill	4
24	Epidemiology	Employability	4
25	Diagnostic Bacteriology	Employability	4
26	Diagnostic Virology	Employability	4
27	Diagnostic Mycology	Employability	4
28	Diagnostic Parasitology	Employability	4
29	Research Methodology	Skill	4
30	Epidemiology & Diagnosis microbiology lab	Skill	
31	Project	Skill	12
32	Internship	Skill	12



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SINO	. NAME	PLACE	SIGNATURE
	Dr. P. e Mahapatra	PLACE CUTM, BASR	12/06/13
2.	Dr. Bachaspati Daeh	CUTM, BBSR	July 5. 17
3.	Dr. Jehish KU. Sen	CUTM, BBSR	Mare -
4	Sunt Ku. Tha	CUTM, BBSR	ALEPALIM
5.	Dr. Debashish Sahoo	CUTM, BBSR	Deta
6.	Viver Ku. Sinha	CUTM, BOSR	12/01/7
' 1	Piciyanka Partien	CUTM, BBSR	The Con 12106112
8	Scensita Mohakud	CUTM, BBSR	Suchand, 17 12.6.17
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School of Paramedics and Allied Health Sciences

Date: 12/06/2017

MINUTES OF BOARD OF STUDIES MEETING held on 12/06/2017

Venue: Board Room, CUTM, Bhubaneswar

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Agenda of the meeting:

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- The new syllabus for BSc CMB was approved by the committee.
- List of new courses are added in Annexure A.
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The meeting ended with a vote of thanks to the Chair.

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Barente

Dean, Academics Dean - Academic Centurion University of Technology & Management Ehubaneswar, Khurda, Odisha-752050





List of new courses added

SI. No		Type (Skill/ Employability/ Entrepreneurship)	Credit
-	BSc RIT		
1	Applied Radiation Physics & Radiation	Employability	4
	Protection		4
2	Advanced Radiographic Techniques	Employability	4
3	Special Radiographic Technique &	Employability	
	Procedures Basic Equipments In Radiodiagnosis	Entrepreneurship	4
4	Medical Imaging Lab II	Entrepreneurship	4
5	Communicative Practice Laboratory 2	Skill	2
6		Employability	4
7	Radiotherapy & Branchy Therapy Techniques In Malignant And Non	Employasing	
	Malignant Disease		
8	Applied Equipments Of Radio	Entrepreneurship	4
0	Diagnosis		
9	Interventional Radiology & Drug Used	Employability	4
	In Diagnostic Radiology		
10	Human Values & Professional Ethics	Skill	4
11	Basic Computer And Information	Skill	4
	Science		1
12	Hospital Posting-Medical Imaging Lab	Entrepreneurship	4
	///		4
13	Basic Of X-Ray and Digital X-Ray	Employability	4
	Imaging		4
14	Computerized Tomography (CT	Employability	
	Scanning) Method and Procedure	Employability	4
15	Basic Of Magnetic Resonance Imaging		4
6	Orientation In Clinical Sciences Course	Employability	4
	Contents	5 the second urchin	4
7	Medical Imaging Lab IV	Entrepreneurship	4
.8	Medical Law and Ethics	Skill	
9	Project	Skill	12
0	Internship	Skill	12
	BSc MLT		
	Immunology	Employability	4
	Applied Hematology	Employability	4
	Molecular Biology	Employability	4
_	Basic Histology	Entrepreneurship	4
	Community Practice Laboratory- 2	Skill	2
	Immunology, Histology Lab	Skill	4





Т	Parasitology	Employability	4
			2
	Analytical Biochemistry	Entrepreneurship	4
	Advance Hematology	Entrepreneurship	4
0	Immunopathology	Employability	4
1	Human Values & Professional Ethics	Skill	4
2	Basic Computers and Information Science	Skill	
.3	Biochemistry lab	Entrepreneurship	4
.5 L4	Transfusion Medicine	Employability	4
15	Medical Laboratory Management	Enterpreunership	4
16	Immunopathology	Employability	4
17	Introduction To Quality and Patient	Employability	4
	Safety Medical Law and Ethics	Skill	4
18	Mycology & Virology	Employability	4
19	Mycology & Virology Lab	Skill	4
20		Skill	12
21	Project	Skill	12
22	Internship		
	MSc MLT	Employability	4
1	Immunology, Bacterial Serology & Parasitology	Entrepreneurship	4
2	Clinical Hematology		
3	Biochemistry	Employability	4
4		Entrepreneurship	4
5	Histology	Skill	4
	Research Methodology	Skill	2
6	Communicative Practice Laboratory–II		
7	Immunology, Biochemistry &	Employability	4
	Histopathology Lab	Skill	-
8	Project	Skill	
9	Internship		
	MSc CMB		
1	Immunology & Virology	Employability	
2	Diagnostic Bacteriology	Entrepreneurship	
3		Employability	
4		Entrepreneurship	
1	Histology		





	UNIVERSITY	Skill	4
5	Research Methodology		
5	Communicative Practice Laboratory-II	Skill	2
7	Immunology, Histopathology & Biochemistry Lab	Entrepreneurship	4
3		Skill	12
)	Project Internship	Skill	12
	BSc CMB		
1	Introductory Cell Biology	Employability	4
2	Human Anatomy & Physiology	Employability	4
3		Entrepreneurship	4
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5	Instrumentation & Techniques Human Anatomy, Physiology & Haematology Practical	Entrepreneurship	4
6	Environmental Science	Skill	4
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13	Systemic Bacteriology	Employability	
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18	Public Heath Microbiology	Employability	





19	Pharmaceutical Microbiology	Employability	4
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21	Biochemistry	Employability	4
22	Basic Computer & Information technique	Employability	4
23	Industrial, Public Health Microbiology & Biochemistry Lab.	Skill	4
24	Epidemiology	Employability	4
25	Diagnostic Bacteriology	Employability	4
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' 1	Piciyanka Partien	CUTM, BBSR	The Con 12106112
8	Scensita Mohanud	CUTM, BBSR	Suchand, 17 12.6.17
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School of Paramedics and Allied Health Sciences

Date: 12/06/2017

MINUTES OF BOARD OF STUDIES MEETING held on 12/06/2017

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 AM

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- 3. Dr. Debasish Sahoo, MD, Microbiology
- 4. Dr. Ashish Kumar Sen, Adjunct Professor, SoPAHS
- 5. Prof. Sunil Kumar Jha, Dean, SoPAHS
- 6. Mr. Vivek Kumar Sinha, Lecturer of Optometry
- 7. Ms. Priyanka Parbin, Lecturer of Microbiology
- 8. Ms. Sansita Mohakud, Lecturer

All the members were welcomed to the session by the Chairperson and were briefed regarding the purpose of the meeting. Thereafter, the Dean of SoPAHS presented on the achievements of the department in terms of academics and infrastructure.

Following are the programs offered by SoPAHS:

MSc Medical Laboratory Technology (MSc MLT) MSc Applied and Clinical Microbiology (MSc CMB) BSc Medical Laboratory Technology (BSc MLT) BSc Clinical Microbiology (BSc CMB) BSc Radiology and Imaging Technology (BSc RIT) BSc Optometry (BSc Optom)

Agenda of the meeting:

Agenda 1: The minutes of the last meeting of the BoS held on 02/06/2016 were confirmed.

Agenda 2: Discussion and approval on the content of syllabus for various courses of SoPAHS.





The Dean of SoPAHS presented on the feedback received on the curriculum of the school, from various stakeholders. Further, he presented the syllabus for incorporation for the Academic session 2017-18.

- The syllabus was highly appreciated as the courses were relevant to the need of the health . industry.
- The Board approved the updation of the courses, wherein the syllabus for 3rd, 4th, 5th and 6th ٠ semester of BSc MLT and BSc RIT were approved and syllabus for 3rd and 4th semester of MSc MLT and MSc CMB were approved by the board.
- The new syllabus for BSc CMB was approved by the committee.
- List of new courses are added in Annexure A.
- The syllabus for BSc Optometry was approved without any further revision.
- It was discussed during the meeting that the core courses should focus on clinical orientation. ٠

The Dean, SoPAHS extended sincere thanks to all the members of the Board.

The meeting ended with a vote of thanks to the Chair.

Rolliar Jha DEAN

chool of Paramedics & Allied Health Sciences enturion University of Technology & Management Bhubaneswar, Odisha-752050

Barente

Dean, Academics Dean - Academic Centurion University of Technology & Management Ehubaneswar, Khurda, Odisha-752050





List of new courses added

SI. No	Course Title	Type (Skill/ Employability/ Entrepreneurship)	Credit
	BSc RIT		
1	Applied Radiation Physics & Radiation Protection	Employability	4
2	Advanced Radiographic Techniques	Employability	4
3	Special Radiographic Technique & Procedures	Employability	4
4	Basic Equipments In Radiodiagnosis	Entrepreneurship	4
5	Medical Imaging Lab II	Entrepreneurship	4
6	Communicative Practice Laboratory 2	Skill	2
7	Radiotherapy & Branchy Therapy Techniques In Malignant And Non Malignant Disease	Employability	4
8	Applied Equipments Of Radio Diagnosis	Entrepreneurship	4
9	Interventional Radiology & Drug Used In Diagnostic Radiology	Employability	4
10	Human Values & Professional Ethics	Skill	4
10 11	Basic Computer And Information	Skill	4
12	Science Hospital Posting-Medical Imaging Lab	Entrepreneurship	4
.3	III Basic Of X-Ray and Digital X-Ray	Employability	4
4	Imaging Computerized Tomography (CT	Employability	4
	Scanning) Method and Procedure Basic Of Magnetic Resonance Imaging	Employability	4
5 6	Orientation In Clinical Sciences Course	Employability	4
	Contents	Entrepreneurship	4
2.2	Medical Imaging Lab IV	Skill	4
8	Medical Law and Ethics		12
9	Project	Skill	12
0	Internship	Skill	
1	BSc MLT		4
1	Immunology	Employability	4
	Applied Hematology	Employability	
1	Molecular Biology	Employability	4
4	Basic Histology	Entrepreneurship	4
	Community Practice Laboratory- 2	Skill	2
	mmunology, Histology Lab	Skill	4





Т	Parasitology	Employability	4
			2
	Analytical Biochemistry	Entrepreneurship	4
	Advance Hematology	Entrepreneurship	4
0	Immunopathology	Employability	4
1	Human Values & Professional Ethics	Skill	4
2	Basic Computers and Information Science	Skill	
.3	Biochemistry lab	Entrepreneurship	4
.5 L4	Transfusion Medicine	Employability	4
15	Medical Laboratory Management	Enterpreunership	4
16	Immunopathology	Employability	4
17	Introduction To Quality and Patient	Employability	4
	Safety Medical Law and Ethics	Skill	4
18	Mycology & Virology	Employability	4
19	Mycology & Virology Lab	Skill	4
20		Skill	12
21	Project	Skill	12
22	Internship		
	MSc MLT	Employability	4
1	Immunology, Bacterial Serology & Parasitology	Entrepreneurship	4
2	Clinical Hematology		
3	Biochemistry	Employability	4
4		Entrepreneurship	4
5	Histology	Skill	4
	Research Methodology	Skill	2
6	Communicative Practice Laboratory–II		
7	Immunology, Biochemistry &	Employability	4
	Histopathology Lab	Skill	-
8	Project	Skill	
9	Internship		
	MSc CMB		
1	Immunology & Virology	Employability	
2	Diagnostic Bacteriology	Entrepreneurship	
3		Employability	
4		Entrepreneurship	
1	Histology		





	UNIVERSITY	Skill	4
5	Research Methodology		
5	Communicative Practice Laboratory-II	Skill	2
7	Immunology, Histopathology & Biochemistry Lab	Entrepreneurship	4
3		Skill	12
)	Project Internship	Skill	12
	BSc CMB		
1	Introductory Cell Biology	Employability	4
2	Human Anatomy & Physiology	Employability	4
3		Entrepreneurship	4
4	Basic Haematology	Entrepreneurship	4
5	Instrumentation & Techniques Human Anatomy, Physiology & Haematology Practical	Entrepreneurship	4
6	Environmental Science	Skill	4
7	Foundations of English	Skill	2
8	Communication	Employability	4
9	General Microbiology	Entrepreneurship	4
10	Clinical Biochemistry	Entrepreneurship	4
11	Clinical Pathology & Diagnosis Clinical Pathology, Biochemistry &Microbiology Practical	Entrepreneurship	4
12	Immunology	Employability	
13	Systemic Bacteriology	Employability	
14		Employability	
15	Molecular Biology	Employability	
16	Systemic Virology & Mycology Communicative Practice Laboratory- II	Skill	
17	Bacteriology, Virology &Mycology Practical	Skill	
18	Public Heath Microbiology	Employability	





19	Pharmaceutical Microbiology	Employability	4
20	Industrial Microbiology	Entrepreneurship	4
21	Biochemistry	Employability	4
22	Basic Computer & Information technique	Employability	4
23	Industrial, Public Health Microbiology & Biochemistry Lab.	Skill	4
24	Epidemiology	Employability	4
25	Diagnostic Bacteriology	Employability	4
26	Diagnostic Virology	Employability	4
27	Diagnostic Mycology	Employability	4
28	Diagnostic Parasitology	Employability	4
29	Research Methodology	Skill	4
30	Epidemiology & Diagnosis microbiology lab	Skill	4
31	Project	Skill	12
32	Internship	Skill	12



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SINO	. NAME	PLACE	SIGNATURE
	Dr. P. e Mahapatra	PLACE CUTM, BASR	12/06/13
2.	Dr. Bachaspati Daeh	CUTM, BBSR	July 5. 17
3.	Dr. Jehish KU. Sen	CUTM, BBSR	Mare -
4	Sunt Ku. Tha	CUTM, BBSR	ALEPALIM
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6.	Viver Ku. Sinha	CUTM, BOSR	12/01/7
' 1	Piciyanka Partien	CUTM, BBSR	The Con 12106112
8	Scensita Mohanud	CUTM, BBSR	Suchand, 17 12.6.17
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School of Paramedics and Allied Health Sciences

Date: 12/06/2017

MINUTES OF BOARD OF STUDIES MEETING held on 12/06/2017

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 AM

Board of Studies (BoS) meeting for School of Paramedics and Allied Health Sciences (SoPAHS) was held on 12/06/2017 at 11 AM in the Board Room, CUTM Bhubaneswar. The following are the board members:

- 1. Dr. P. C. Mohapatra, Ophthalmologist
- 2. Dr. Bachaspati Dash, Radiologist
- 3. Dr. Debasish Sahoo, MD, Microbiology
- 4. Dr. Ashish Kumar Sen, Adjunct Professor, SoPAHS
- 5. Prof. Sunil Kumar Jha, Dean, SoPAHS
- 6. Mr. Vivek Kumar Sinha, Lecturer of Optometry
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All the members were welcomed to the session by the Chairperson and were briefed regarding the purpose of the meeting. Thereafter, the Dean of SoPAHS presented on the achievements of the department in terms of academics and infrastructure.

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- The syllabus was highly appreciated as the courses were relevant to the need of the health . industry.
- The Board approved the updation of the courses, wherein the syllabus for 3rd, 4th, 5th and 6th ٠ semester of BSc MLT and BSc RIT were approved and syllabus for 3rd and 4th semester of MSc MLT and MSc CMB were approved by the board.
- The new syllabus for BSc CMB was approved by the committee.
- List of new courses are added in Annexure A.
- The syllabus for BSc Optometry was approved without any further revision.
- It was discussed during the meeting that the core courses should focus on clinical orientation. ٠

The Dean, SoPAHS extended sincere thanks to all the members of the Board.

The meeting ended with a vote of thanks to the Chair.

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10	Human Values & Professional Ethics	Skill	4
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	Contents	Entrepreneurship	4
.7	Medical Imaging Lab IV	Skill	4
.8	Medical Law and Ethics		12
.9	Project	Skill	12
0	Internship	Skill	
	BSc MLT		4
	Immunology	Employability	
	Applied Hematology	Employability	4
	Molecular Biology	Employability	4
-	Basic Histology	Entrepreneurship	4
	Community Practice Laboratory- 2	Skill	2
	Immunology, Histology Lab	Skill	4





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22	Internship		
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22	Basic Computer & Information technique	Employability	4
23	Industrial, Public Health Microbiology & Biochemistry Lab.	Skill	4
24	Epidemiology	Employability	4
25	Diagnostic Bacteriology	Employability	4
26	Diagnostic Virology	Employability	4
27	Diagnostic Mycology	Employability	4
28	Diagnostic Parasitology	Employability	4
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School of Management

Date: 20.06.2017

MINUTES OF BOARD OF STUDIES MEETING held on 12.06.2017

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of School of Management was held on 12.06.2017 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the board members:

- 1. Dr. Haribandhu Panda, Vice Chancellor, CUTM
- 2. Dr. Smita Mishra Panda, Director Research, CUTM
- 3. Dr. Anita Patra, Registrar, CUTM
- 4. Dr. Prasanta Kumar Mohanty, Dean Academics, CUTM
- 5. Dr. Ashok Kumar Mohanty, Retd. Professor, Berhamur University
- 6. Mr. Mathew Anthony, Director, iNurture
- 7. Prof. Rashmi Ranjan Parida, PGP Coordinator, CUTM
- 8. Dr. Pramod Kumar Patjoshi, Faculty, CUTM
- 9. Dr. Ansuman Jena, Faculty, CUTM
- 10. Prof. Umakanta Nayak, Faculty, CUTM
- 11. Prof. KVD Prakash, Dean, SoM, CUTM

The Chairperson, CUTM welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dean, SoM presented the achievements and improvements of the School in the areas of academics, research, consultancy and infrastructure,

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 02.06.2016 were confirmed.

Agenda 2: Discussion and approval on revision required in the Curriculum of MBA program

- The Dean, SoM gave a presentation based on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on that, the Board accepted and approved the following suggestions for course revision to be implemented from the Academic Year 2017-18 (Annexure-I).
 - o A new Area of Electives was introduced in Hospital Management with 40 credits.
 - A new Area of Electives was introduced in Digital Marketing & E-Commerce with 42 credits.
 - o Courses in which revision was undertaken were Quantitative Techniques in Semester-1 and Operation Research in Semester-II. (Decision Perspective of Management of 2 credit was converted into two subjects i.e. QT and OR comprising of six credit) of two subjects.





Agenda 3: Discussion and approval on revision required in the Curriculum of MBA-DM & ABM program

- The Dean, SoM presented the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on that, the Board accepted and approved the following suggestions for course revision to be implemented from the Academic Year 2017-18 (*Annexure-II*).
 - A new area of elective was approved to be offered in Agri-business management.
 - o The name of the programme was changed to MBA- DM &ABM.

Agenda 4: Discussion and approval on revision required in the Curriculum of BBA program

 BBA syllabus was presented based on the suggestions made by the various stakeholders. The Board accepted and approved the existing syllabus without changes for the academic year Year 2017-18.

Agenda 5: Discussion and approval on revision required in the Curriculum of B.Com program

• The Dean, SoM presented the newly developed syllabus for B.Com and after thorough discussion of courses, the program and syllabus was approved (*Annexure-III*).

Agenda 6: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure-IV)

The Dean, SoM extended sincere thanks to all members of the Board.

The meeting ended with a Vote of Thanks to the Chair.

Dean, SoM

Centurion University, Odisha

Sayark

Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Ocisha-752050





Annezure-I

List of new courses added in MBA

SI. No	Course Title Type (Skill/ Employability/ Entrepreneurship	Credi
Elective	s of Semester III and IV	-
1	Hospital Administration Employability	4
2	Management InformationEmployability & SkillSystems for Hospitaldevelopment	2
3	Management of Out-PatientEmployability & SkillDepartmentdevelopment	4
4	Risk and Disaster Employability Management	4
5	Management of Quality Employability	4
6	Legal and Ethical Issues for Employability Hospitals	4
7	Health Insurance Employability	2
8	Project Management in Employability Health Care	4
9	Marketing of Hospital Employability,	
	Services Entrepreneurship	4
10	Clinical, Diagnostic & Employability Therapeutic Services	4
11	Patient Care and Behavior Employability & Skill development	4
12	Web Traffic Generation Employability, Entrepreneurship & Skill development	2
13	Link Building & e-WoM Employability, Entrepreneurship & Skill development	2
14	Social Media Marketing Employability, Entrepreneurship & Skill development	4
15	Branded Content and the Employability Future of Media	4
.6	Ideas, Brands and Employability Business	2
7	Brand Planning and Employability, Consumer Insights Entrepreneurship	4
8	Digital Strategies and Employability & Planning Entrepreneurship	4
9	Mobile & E-Mail Skill development Marketing	4
0	Search Engine Skill development Optimization	2
	Scarch Engine Marketing Skill development	4
L 2	Technology of e- Commerce	2



23	Online Reputation Management	Skill development	4
24	Affiliate Marketing	Skill development	2
25	Web Content Writing	Skill development	2

List of existing courses where syllabus was revised for MBA

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)	
1	Quantitative I N Techniques a 		Nature, Scope and limitations of statistics; uses of statistics to business and industrial activities, Statistical Dat -primary and secondary data, Collection of data, Classification and tabulation of data, Diagrammatic and graphi representation of data. Questionnaire –it characteristics and drafting	
II	Operation Research	1	Game Theory introduced	





Annexure-II

SI. No	Course Title	Type (Skill/ Employability/ Entrepreneurship	Credit
Elec	tives of Semester I and II		
1	Individual and Group Behaviour		2
2	Principles of Management		2
3	ICT in Agriculture		2
4	Logistics and Supply Chain Management		2
5	Agricultural Marketing		2
6	Economic Environment for Agriculture		4
7	Operation Research	Employability	2
8	Management Information Systems	Employability	2
Seme	ster-III of ABM		
0		The second s	
	Study of an Organization		6
10	Field Intervention/(Ag. Development		
	Action)	EntrepreneurshipurEmployabilitySkill developmentnagementEmployabilityicultureEmployabilityemsEmployabilityemsEmployability, EntrepreneurshipomentEmployabilityementEmployabilityementEmployabilityementEmployabilityementEmployabilityementEmployabilityementEmployabilityementEmployabilityementEmployabilityementEmployabilityementEmployabilityementEmployabilityementEmployabilityementEmployabilityemployabilityEmployabilityemployabilityEmployabilityemployabilityEmployabilityemployabilityEmployabilityemployability, EntrepreneurshipEmployability, Entrepreneurshipemployability, EntrepreneurshipEmployability, EmployabilityemployabilityEmployability, EmployabilityemployabilityEmployability, EmployabilityemployabilityEmployability, EmployabilityemployabilityEmployabilityemployabilityEmployability	6
11	Sales and Distribution Management		2
12	Agricultural Extension Management		2
13	Corporate Social Responsibility	Employability	2
14	Disaster Management	Employability	2
	Food Retail Management	Employability	2
15	Post-harvest and Processing Management	Employability	2
16		Employability	2
17	Insurance and Risk Management		
	ster-IV of ABM	Employability	6
18	Management Action Component-1		6
19	Management Action Component - 2	and the second se	2
20	Live-stock Management		2
			2
1	Agri-export and WTO	Entrepreneurship	North Contraction
2	Total Quality Management	and the second design of the s	2
2	Contract Farming	Employability	2
3	Micro-finance and FI	Employability	2
4		Employability,	2
5	Commodity Market and Trading		
	Commodity man		4





Annexure-III

List of new courses in B.Com (New Syllabus)

SI. No	Course Title	Type (Skill/ Employability/ Entrepreneurship	Credi
	ester I		
1	Proficiency in English	Employability	2
2	Management Principles and Applications	Employability	4
3	Computer Application in Business	Skill Development	4
4	Financial Accounting I	Employability & Entrepreneurship	4
5	Business Mathematics	Employability & Entrepreneurship	4
6	Business Economics	Employability & Entrepreneurship	6
	ster II		
7	Reading to Writing	Employability	2
8	Business Law	Employability & Entrepreneurship	6
9	Business Statistics	Employability & Entrepreneurship	6
10	Introduction to Banking	Employability	4
11	Business Environment	Employability & Entrepreneurship	4
12	Financial Accounting II	Employability & Entrepreneurship	4
Semest	er III		
.3	Financial Management	Employability & Entrepreneurship	6
4	Direct Tax	Employability	4
5	Indirect Taxes / GST	Employability & Entrepreneurship	4
5	Tally.ERP 9	Skill Development	6
7	Cost & Management Accounting	Employability & Entrepreneurship	4
	Corporate Law	Employability & Entrepreneurship	4
meste	er IV		
	E-Commerce	Employability	4
	Advanced Excel	Skill Development	4
	Quantitative Techniques for Business	Employability	4
	Entrepreneurship Development	Entrepreneurship	6
	Auditing	Employability	4
	Business Ethics & Governance	Employability, Entrepreneurship	4
meste	r V		



25	Corporate Accounting	Employability & Entrepreneurship	4
26	Financial Market Operation	Employability	4
27	On Job Internship-I	Employability, Entrepreneurship & Skill development	
Seme	ster VI		
28	Global Finance	Employability	4
29	Banking Law & Practice	Employability	4
30	On Job Internship-II	Employability, Entrepreneurship & Skill development	12
		Total Credit	144





Annexure-IV

Skill Courses approved

SI. No.	Course Title	Credit
1	Apparel Production & Marketing	4
2	Line Stitching Supervising	4
3	Apparel Production	4
4	Light Motor Vehicle Driving	4
5	Fork Lift Operation	4
6	Heavy Vehicle Technology	4
7	Two Wheeler Service Technology	4
8	Four Wheeler Service Technology	4
9	E-Vehicle Assembly and Service Technology	4
10	Robotics	4
11	Poultry Farming	4
12	CNC Programming (CAM)	4
13	Design Supervising Wooden and Modular Furniture	4

Value Added courses approved

	Course Title	Credit
		30 Hours
1	LSD-2	30 Hours
2	Development of Concentration and Memory- Application of 'Raja	JUTIOUIS
	Yoga' in daily life	30 Hours
3	Self defence for Girls	30 Hours
4	Digital Marketing	30 Hours
5	Bio-fertilizer	30 Hours
6	Gender Issues	30 Hours
7	Solid Waste Management	30 Hours
8	Smart Agriculture	30 Hours
9	Adobe Tools	Serioure



CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT 18 SCHOOL OF MANAGEMENT Board of Studies Neeting (Bhubanesware Carry Date: 12th June 2017 Time : 10:30 AM Venue: Bhubaneowar Campus. Members Present 1) Dr. Have bandhu Panda, VC, WEM Dr. Smita Mistra Panda, Director Research 3) Dr. Anita Patna, Legistral, WTM Dr. Ashok Kumar Mohanty Expert Mr. Mathew Anthony Confect intertwee Mr. Sukanta Parida, GM, ICA University Alliance Dr. Praparta Kumar Mohanly, Dean, Academic 3) Phot. Rashni Ranjan Parida, Pap Coondinator, Son a) Prot. Umabarta Nayak, Faulty, Som 10) Prot. Ansuman Jena Phol. Faculty Sort 11) Prot. Bibhurandini Das, Phd, Faulty, Som 12) Prot. Shi Sanhar Das, Faculty, song 13) Prot. K.V.D Prakash, Dean, Som

20 * BBA and B. com (ICA): The whole course mas discussed and was approved by all nembers. * MBA (Data Analytics): 5 subjects were added to the existing course structure no changes were proposed bon any existing courses. * MBA (Hospital Management): New electrices on Hospital maragement was introduced and was appro The meeting came to an end abter enlending a vote of thanks to all present members. Signatures of Members Present. Ansuman Jer Sav Custer 12/06/17 Inorthe 10/06/12 Shi Sanhar 200 12/6/17 mita Misha Poral 12/6 12 June 17



School of Pharmacy and Life Sciences

Date: 12.06.2017

MINUTES OF BOARD OF STUDIES MEETING held on 12.06.2017

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of School of Pharmacy and Life Sciences(SoPLS) was held on 12.06.2017 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the board members:

- 1. Mr. Mahesh Pattnaik, Director SoPLS
- 2. Mr. Sisir Panigrahi, Director SoPLS
- 3. Dr. Gurudutta Pattnaik, Dean SoPLS
- 4. Dr. Amulyaratna Behera, Professor SoPLS
- 5. Dr. Susant Kumar Sahu, HOD UDPS, Utkal University

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dean of the School of Pharmacy and Life Sciences presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 16.06.2016 were confirmed.

Agenda 2: Course Curriculum Revision with implementation of elective course systems

- Draft rules & syllabus for the B. Pharm course framed under the regulation 6,7 & 8 of the Bachelor of Pharmacy course 2014 by Pharmacy Council of India, New Delhi is here by discussed critically in presence of External Expert and it is decided that Principal SoPLS, CUTM is authorized to modify the courses regulation in case of any urgency, if required. deliverable.
- PCI, the apex affiliating body of Government of India, based upon different suggestions, review comments from different academic, industry and research have instructed to all the institutions throughout the India to adhere the new revised unified syllabus throughout the country in order to produce trend skilled man power.
- · Following points are discussed: -
- 1. Short title & commencement.
- 2. Minimum qualification for admission.
- 3. Duration of Programme.
- 4. Medium of Instruction & exam.
- 5. Working days in each semester.
- 6. Attendance and progress.
- 7. Programme credit structure Minimum Credit Point required is 208
- 8. Academic work.
- 9. Course of study.
- 10. Program committee.

It is discussed that principal will take necessary steps to form and finalize the program committee.



11. Examination & Assessment.

12. Few subjects carry 25 marks for internal assessment and 75 marks for end semester examination, few carry 15 as internal and 35 for external and some carries 10 internal and 15 for external examination.

- 13. Some subjects are included as Non university examination i.e. English & Biology.
- 14. Promotion and award of grade.
- 15. Minimum 50% mark is required in each subject which includes both internal and external exam
- to pass in the respective subject.
- 16. Carry forward of marks.
- 17. Improvement of Internal assessment.
- 18. Academic progression.
- 19. Grading of performance

% of mark obtained	Grade	Grade point	Performance
90.00 - 100	0	10	Outstanding
80.00-89.99	A	9	Excellent
70.00-79.99	В	8	Good
60.00-69.99	С	7	Fair
50.00-59.99	D	6	Average
<50	F	0	Fail
Absent	AB	0	Fail

Whereas E grade is completely obliterated.

20. Project work.

• The Board approved the revision of the syllaubus in keeping with the latest requirements of the industry.

Agenda 3: Type of curriculum: CBCS/Elective/NEP: ELECTIVE

Implementation of 2 Elective courses (Total 8 Credits) in B.Pharm 8th semester.

Any Other Points: Extension of Pharmacy courses at Balangir and Rayagada campus.

The Board of Studies after due deliberation approved to impart Pharmacy courses at its constituent campuses such as Balangir and Rayagada camps.

The Dean, School of Pharmacy and Life Sciences extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoPLS

DEAN SCHOOL OF PHARMACY AND LIFE SCIENCES CUTM.BHUBANESWAR

Sour

Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



SI. No	Course Title	Type(Skill/Employability	Credit
		/Entrepreneurship	
1	Human Anatomy and Physiology I-	Skill-Employability	
	Theory		4
2	Pharmaceutical Analysis I - Theory	Skill-Employability	4
3	Pharmaceutics I – Theory	Skill-Employability	4
4	Pharmaceutical Inorganic Chemistry – Theory	Employability	4
5	Communication skills – Theory *	Skill	2
6	Remedial Biology – Theory*	Employability	2
7	Remedial Mathematics – Theory*	Employability	2
8	Human Anatomy and Physiology – Practical	Skill-Employability	2
9	Pharmaceutical Analysis I – Practical	Skill-Employability	2 2 2
9 10	Pharmaceutical Pharmaceutical	Skill-Employability	2
	Pharmaceutical Inorganic Chemistry –	Employability	-
11	Practical	Employability	2
12	Communication skills – Practical*	Skill	1
12		Employability	1
13	Remedial Biology – Practical*	Skill-Employability	
14	Human Anatomy and Physiology II – Theory		4
15	Pharmaceutical Organic Chemistry I – Theory	Skill-Employability	4
16	Biochemistry – Theory	Employability	4
17	Pathophysiology – Theory	Skill	4
18	Computer Applications in Pharmacy – Theory *	Skill	3
19	Environmental sciences - Theory *	Employability	3
20	Human Anatomy and Physiology II – Practical	Skill-Employability	2
21	Pharmaceutical Organic Chemistry I– Practical	Employability	2
22	Biochemistry – Practical	Skill-Employability	2
22	Computer Applications in Pharmacy – Practical*	Skill-Employability	1
24	Pharmaceutical Organic Chemistry II	Skill-Employability	4
	- Theory		
25	Physical Pharmaceutics I – Theory	Skill-Employability	4
26	Pharmaceutical Microbiology – Theory	Skill-Employability	4
27	Pharmaceutical Engineering – Theory	Skill-Employability	4
28	Pharmaceutical Organic Chemistry II – Practical	Employability	2
29	Physical Pharmaceutics I - Practical	Employability	2
30	Pharmaceutical Microbiology – Practical	Skill-Employability	2
31	Pharmaceutical Engineering – Practical	Skill -Employability- Entrepreneurship	2
32	Pharmaceutical Organic Chemistry III– Theory	Skill-Employability	4



	UNIVERSITY		
33	Medicinal Chemistry I – Theory	Employability	4
34	Physical Pharmaceutics II – Theory	Skill – Employability	4
35	Pharmacology I – Theory	Skill – Employability	4
36	Pharmacognosy and Phytochemistry I– Theory	Skill	4
37	Medicinal Chemistry I – Practical	Employability	2
38	Physical Pharmaceutics II – Practical	Skill – Employability	2
39	Pharmacology I – Practical	Skill – Employability	2
40	Pharmacognosy and Phytochemistry I – Practical	Skill – Employability	2
41	Medicinal Chemistry II – Theory	Employability	4
42	Industrial Pharmacy- I Theory	Skill – Employability	4
43	Pharmacology II – Theory	Skill – Employability	4
44	Pharmacognosy and Phytochemistry II– Theory	Skill –Employability	4
45	Pharmaceutical Jurisprudence – Theory	Employability	4
46	Industrial Pharmacy I – Practical	Skill -Employability- Entrepreneurship	2
47	Pharmacology II – Practical	Skill – Employability	2
48	Pharmacognosy and Phytochemistry II – Practical	Skill –Employability	2
49	Medicinal Chemistry III – Theory	Employability	4
50	Pharmacology III – Theory	Skill – Employability	4
51	Herbal Drug Technology – Theory	Skill – Employability	4
52	Biopharmaceutics and Pharmacokinetics – Theory	Skill – Employability	4
53	Pharmaceutical Biotechnology – Theory	Employability	4
54	Quality Assurance – Theory	Skill – Employability	4
55	Medicinal chemistry III - Practical	Employability	2
56	Pharmacology III – Practical	Skill –Employa	2
57	Herbal Drug Technology – Practical	Skill -Employability- Entrepreneurship	2
58	Instrumental Methods of Analysis – Theory	Skill – Employability	4
59	Industrial Pharmacy –II Theory	Skill – Employability	4
60	Pharmacy Practice – Theory	Skill – Employability	4
61	Novel Drug Delivery System – Theory	Skill – Employability	4
62	Instrumental Methods of Analysis – Practical	Skill – Employability	2
63	Practice School*	Employability	6
64	Biostatistics and Research Methodology	Skill	4
65	Social and Preventive Pharmacy	Skill – Employability	4
66	Pharmaceutical Marketing (ELECTIVE)	Skill -Employability- Entrepreneurship	4
67	Pharmaceutical Regulatory Science (ELECTIVE)	Skill -Employability- Entrepreneurship	4
68	Project Work	Skill - Employability- Entrepreneurship	6



Elective subjects in B.Pharm:

Course Code	Name of the Course	No. of hours	Tutorial	Credit Points
BPHT4203	Pharma Marketing Management			
BPHT4204	Pharmaceutical Regulatory Science			
BPHT4205	Pharmacovigilance			
BPHT4206	Quality Control and Standardizations of Herbals			÷.,
BPHT4207	Computer Aided Drug Design	3+3=6	1+1=2	4+4=8
BPHT4208	Cell and Molecular Biology			
BPHT4209	Cosmetic Science			
BPHL4201	Experimental Pharmacology			
BPHL4202	Advanced Instrumentation Techniques			
BPHT4212	Dietary Supplements and Nutraceutical			



Appendix 3

Skill Courses approved by university

SI. No	Course Title	Credit
1	Apparel Production & Marketing	4
2	Line Stitching Supervising	4
3	Apparel Production	4
4	Light Motor Vehicle Driving	4
5	Fork Lift Operation	4
6	Heavy Vehicle Technology	4
7	Two Wheeler Service Technology	4
8	Four Wheeler Service Technology	4
9	E-Vehicle Assembly and Service Technology	4
10	Robotics	4
11	Poultry Farming	4
12	CNC Programming (CAM)	4
13	Design Supervising Wooden and Modular Furniture	4



Value Added courses offered by university

Sl. No	Course Title	Hrs. of input
1	LSD-2	30 Hours
2	Development of Concentration and Memory- Application of 'Raja Yoga' in daily life	30 Hours
3	Self defence for Girls	30 Hours
4	Digital Marketing	30 Hours
5	Bio-fertilizer	30 Hours
6	Gender Issues	30 Hours
7	Solid Waste Management	30 Hours
8	Smart Agriculture	30 Hours
9	Adobe Tools	30 Hours

5 8 * The MSc forensic Science course is going to be launched from the academic year 2017-18 * The stactulty members of GFSU have Visited the campus and agreed discussed the regnirement. * The syllabus, course curriculum credit point. Grade and as per CBCS Maten ave discussed and finalized. Members Present; Internal Member External member Sus ma () b GP 12 06 17 Dr. S. K. Sahn ' Reader & Head, UDPS, Dr Gurndutta Pattneik Principal, SPLS. Ash Behera ufkal Univ. SISIE C. C. Behera