



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

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**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**

**School of Engineering & Technology**

**Department of Mechanical Engineering**

**Date: 09/07/2021**

**MINUTES OF BOARD OF STUDIES MEETING held on 09/07/2021**

**Virtual Mode**

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Mechanical Engineering was held on 09/07/2021 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. Mohaptra, NIT Rourkela
4. Dr. A.M Mohanty, PRO VC, CUTM
5. Dr. R.C Mohanty, Professor, SOET, Mechanical
6. Prof. Prajna Paramita Debata, HOD, Mechanical
7. Mr. Hari Krishna, Final year student (placed in Byjus through campus recruitment)
8. Saubhagya Ranjan Parida, Alumni (Working in Federal Bank)
9. 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 11/07/2020 were confirmed.**

**Agenda 2: Discussion and approval of any revision required in the Curriculum of B.Tech, Mechanical Engg. Basket 4 syllabus**

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 2021-22.

- Manufacturing Process-Process planning and Heat Treatment (2-1-0) (CUTM1079) is very heavy and easily split into courses of 3 credit each
- Fluid Mechanics with Finite Volume Method to be refined and made into two separate courses.
- Applied Ergonomics could be merged in product design course where DFM is dealt.
- Smart Track is a very good suggestion and should be implemented.



- List of new courses added (*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.

The Board approved the changes suggested in the Manufacturing Process. 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 vote of thanks to the Chair.

Dean, SoET

**Dean, SOET**

Centurion University of Technology & Management  
Odisha

Dean, Academics

**Dean - Academic**

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

HoD, Mechanical Engineering

**List of new courses added**

Sl. 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	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	Optimisation Techniques	Skill and Employability	2
21	Programming in Java(Same as Java Technologies)	Skill and Employability	3
22	Database Management Systems	Skill and Employability	3



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*Annexure-B*

List of existing courses where syllabus was changed

<b>Basket/ Semester</b>	<b>Name of Course</b>	<b>No. of Modules/Topics revised</b>	<b>Revised Modules/Topics (details)</b>
1	Manufacturing Process	1	Course e was changed with little modification in content.

*Annexure-C*

List of Skill courses (Basket) approved

Sl. No	Course Title	Credit	(T+P+P)
1	3D Game Art	4	0+3+1
2	Drug Design using Biovia Discovery Studio	4	0+3+1
3	Ophthalmic Lens and spectacle manufacturing Techniques	4	0+3+1
4	Medical Diagnostic Techniques	4	0+3+1
5	Introduction to Aquaponics	4	0+3+1
6	Polyhouse Automation	4	0+3+1
7	Development of Processor (Shakti)	4	0+3+1
8	Spectroscopy	4	0+3+1
9	Extraction Technologies	4	0+3+1
10	Gamified DIY kits using Lasers	4	0+3+1
11	VR Assets Development	4	0+3+1
12	GIS and Remote Sensing: Applications in Participatory Natural Resource Management	4	0+3+1
13	GIS and Remote Sensing: Application Development	4	0+3+1
14	3D Modelling and Printing	4	0+3+1
15	Brew Master	4	0+3+1
16	3D Game Art	4	0+3+1
17	Drug Design using Biovia Discovery Studio	4	0+3+1
18	Ophthalmic Lens and spectacle manufacturing Techniques	4	0+3+1
19	Medical Diagnostic Techniques	4	0+3+1
20	Introduction to Aquaponics	4	0+3+1
21	Polyhouse Automation	4	0+3+1
22	Development of Processor (Shakti)	4	0+3+1
23	Spectroscopy	4	0+3+1
24	Extraction Technologies	4	0+3+1
25	Gamified DIY kits using Lasers	4	0+3+1
26	VR Assets Development	4	0+3+1
27	GIS and Remote Sensing: Applications in Participatory Natural Resource Management	4	0+3+1
28	GIS and Remote Sensing: Application Development	4	0+3+1



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29	3D Modelling and Printing	4	0+3+1
30	Brew Master	4	0+3+1

List of value added courses approved

Sl. No	Course Title	Hrs. of input
1	Ethical Hacking	30
2	Clinical Practice	30
3	Financial Literacy	30
4	MATLAB	30
5	MS Excel Basics	30
6	Pharmaceutical Dry-Lab Techniques	30
7	Research Methodology and IPR	30
8	Steps for Career Plan	30
9	TABLEAU	30
10	Technical Writing	30
11	Waste to Wealth	30
12	Web Development	30
13	Yoga and Meditation	30
14	Health and Lifestyle	30
15	Life Skills and Moral Value Education	30
16	Ansys	30
17	Video Making for Youtubers	30



**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**

**School of Engineering & Technology  
Department of Mechanical Engineering**

**Time: 11.00 a.m.**

**Date: 09.07.2021**

**Venue: Board Room, CUTM, Bhubaneswar**

**Board of Studies Meeting**

**Attendance Sheet**

Sl.No.	Name of the Member	Designation	Signature
1	Prof. S.S. Mohaptra	Professor, NIT Rourkela	Attended Online
2	Dr. A.M Mohanty	PRO VC,CUTM	Attended Online
3	Dr. P.K. Mohanty	Dean Academics	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

Dean, SoET

**Dean, SOET**

Centurion University of Technology & Management  
Odisha

Dean, Academics

Dean - Academic

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





**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**

**School of Engineering & Technology**

**Department of Computer Science and Engineering**

**Date: 09.07.2021**

**MINUTES OF BOARD OF STUDIES MEETING held on 09.07.2021**

Venue: Online

Time: 10.00 a.m.

The Board of Studies (BoS) meeting of Department of Computer Science and Engineering was held on 09.07.2021 at 10 a.m. in online mode. The following members were present:

1. Prof. (Dr.) Radhakant Padhi, Honorary Provost, Centurion University of Technology and Management
2. Dr. Sujata Chakravarty, Associate. Prof., HOD, CSE
3. Prof. Jagannath Padhi, Director, Centurion University of Technology and Management
4. Prof. (Dr.) Ashish Ranjan Dash, Associate Dean, SoET, Centurion University of Technology and Management
5. Mr. Pramod Saini, Co-founder of Icalibrator
6. Ms. Aruna Saini, Co-founder of Icalibrator
7. Mr. Suvendu Kumar Nayak, Assistant Professor, CUTM, BBSR
8. Anshit Ransingh, Alumni(Working as project executive in CUTM)
9. Rhythm Paul, Student, CUTM, BBSR

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 11/07/2020 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 2021-22.



- With reference to the suggestions of the members present it was decided no major changes required in the syllabus only the skill related to different subjects need to be mentioned.
- Two changes were suggested
  1. Replacing "OOPs with C++ programming " by "Programming in C"
  2. Renaming the subject "Data structures using C++" by "Data Structures "and all the implementation will be done by C programming language.(Annexure 1)

**Agenda 3: Inclusion of MCA curriculum**

A new curriculum for MCA program is introduced and approved by the Board members.

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

Various courses offered by University in the areas of life skills and value addition for the students overall improvement and well being are approved by 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.

Dean, SoET

Dean, SoET

Centurion University of Technology & Management  
Odisha

Dean, Academics

Dean Academics

Centurion University of Technology & Management  
Odisha

HoD, Computer Science & Engineering

HOD CSE

Centurion Institute of Technology



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**Annexure 1**

List of new courses added

<b>Sl. No</b>	<b>Course Title</b>	<b>Type(Skill/Employability/Entrepreneurship)</b>	<b>Credit</b>
1	Programming in C	Skill And Employability	4
2	Data Structures	Skill And Employability	4



## Annexure 2

List of Skill courses approved in the Year 2021-22

S No	Course Name	Course Code	Credit
1	3D Game Art	CUTM3121	4
2	Drug Design using Biovia Discovery Studio	CUTM3122	4
3	Ophthalmic Lens and spectacle manufacturing Techniques	CUTM3123	4
4	Medical Diagnostic Techniques_	CUTM3124	4
5	Introduction to Aquaponics	CUTM3125	4
6	Polyhouse Automation	CUTM3126	4
7	Development of Processor (Shakti)	CUTM3127	4
8	Spectroscopy	CUTM3128	4
9	Extraction Technologies	CUTM3129	4
10	Gamified DIY kits using Lasers	CUTM3130	4
11	VR Assets Development	CUTM3131	4
12	GIS and Remote Sensing: Applications in Participatory Natural Resource Management	CUTM3133	4
13	GIS and Remote Sensing: Application Development	CUTM3134	4
14	3D Modelling and Printing	CUTM3135	4
15	Brew Master	CUTM3142	4



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**Annexure 3**

- List of Value Added Courses offered in the Year 2021-22

S No	Name of the value added courses (with 30 or more contact hours) offered	Course Code	Duration of course
1	Ethical Hacking	CUVA4013	30 Hours
2	Clinical Practice	CUVA4002	30 Hours
3	Financial Literacy	CUVA4038	30 Hours
4	MATLAB	CUVA4035	30 Hours
5	MS Excel Basics	CUVA4010	30 Hours
6	Pharmaceutical Dry-Lab Techniques	CUVA4043	30 Hours
7	Research Methodology and IPR	CUVA4009	30 Hours
8	Steps for Career Plan	CUVA4018	30 Hours
9	TABLEAU	CUVA4014	30 Hours
10	Technical Writing	CUVA4023	30 Hours
11	Waste to Wealth	CUVA4029	30 Hours
12	Web Development	CUVA4012	30 Hours
13	Yoga and Meditation	CUVA4021	30 Hours
14	Health and Lifestyle	CUVA4020	30 Hours
15	Life Skills and Moral Value Education	CUVA4030	30 Hours
16	Ansys	CUVA4044	30 Hours
17	Video Making for Youtubers	CUVA4016	30 Hours



**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**

**School of Engineering & Technology**

**Department of Computer Science and Engineering**

**Time: 10.00 a.m.**

**Date: 09.07.2021**

**Venue: Online**

**Board of Studies Meeting**

**Attendance Sheet**

List of Members present

Sl. No.	Name	Organization	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.) Sujata Chakravarty	HOD, CSE, Centurion University of Technology and Management	Attended online
7.	Mr. Pramod Saini	Co-founder of Icalibrator	Attended online
8.	Ms. Aruna Saini	Co-founder of Icalibrator	Attended online
9.	Prof. Uma Valluri	Ex- Prof., IIIT SriCity	Attended online
10.	Mr. Suwendu Kumar Nayak	Assistant Professor, CUTM, BBSR	Attended online
11.	Anshit Ransingh	Alumni(Working as project executive in CUTM)	Attended online
12.	Rhythm Paul	Student, CUTM, BBSR	Attended online

**Dean, Academics**  
**Dean Academics**  
**Centurion University of Technology & Management**  
**Odisha**



**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**

**School of Engineering & Technology**

**Department of Civil Engineering**

**Date: 20/07/2021**

**MINUTES OF BOARD OF STUDIES MEETING held on 20/07/2021**

Venue: Virtual Mode

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Civil Engineering was held on 20/07/2021 in virtual mode. The following are the members:

1. Dr Sachikanta Nanda, Associate Professor, SRMIST, Chennai, TN
2. Dr. Shantiswaroop Sahoo, Associate Professor, Dept. of Geology, Utkal University
- 3 Prof. Prafulla Kumar Panda, Internal Expert
- 4 Prof. Kamal Kumar Barik, 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 11/07/2020 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 2021-22.

- 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.



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- Present final year student welcomed Job readiness component and domain course content.
- The briefing comprised of credits distributions, courses and baskets layouts, and new inclusions such as the Smart Basket (Basket-III) Interdisciplinary domains etc.
- There is no modification of syllabus of Basket- 4,5
- 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 A)

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  
Dean, SOET

Centurion University of Technology & Management  
Odisha

Dean, Academics  
Dean - Academic

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

  
20-07-21

HoD, Civil  
HOD

Dept. of Civil Engineering  
Centurion University of  
Technology & Management, BBSR



**List of Skill courses**

Sl. No	Course Title	Credit	(T+P+P)
1	3D Game Art	4	0+3+1
2	Drug Design using Biovia Discovery Studio	4	0+3+1
3	Ophthalmic Lens and spectacle manufacturing Techniques	4	0+3+1
4	Medical Diagnostic Techniques	4	0+3+1
5	Introduction to Aquaponics	4	0+3+1
6	Polyhouse Automation	4	0+3+1
7	Development of Processor (Shakti)	4	0+3+1
8	Spectroscopy	4	0+3+1
9	Extraction Technologies	4	0+3+1
10	Gamified DIY kits using Lasers	4	0+3+1
11	VR Assets Development	4	0+3+1
12	GIS and Remote Sensing: Applications in Participatory Natural Resource Management	4	0+3+1
13	GIS and Remote Sensing: Application Development	4	0+3+1

**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
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



**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**

**School of Engineering & Technology**

**Department of Civil Engineering**

**Date: 20/07/2021**

**Time: 11.00 a.m.**

**Venue: Virtual Mode**

**Board of Studies Meeting  
Attendance Sheet**

Sl. No	Name of the BoS Member (Internal Faculty and External Resource)	Designation	Signature
1	Dr. Sachikanta Nanda	Associate Professor, SRMIST, Chennai, TN	Attended Online
2	Dr. Santiswaroop Sahoo	Associate Professor, Dept. of Geology, Utkal University	Attended Online
3	Dr Kamal Kumar Barik	Professor, Civil Engineering, CUTM	Attended Online
4	Dr Prafulla Ku. Panda	Professor, Civil Engineering, CUTM	Attended Online

**Dean, SoET**

**Dean, SOET**

**Centurion University of Technology & Management  
Odisha**

**Dean Academic**

**Centurion University of Technology & Management  
7, Jhansuar, Khurda, Odisha-752050**



# CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

## 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 curriculum thoroughly 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 thoroughly 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*).
  - 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, SoM

**Dean**  
**School of Management**  
**Centurion University, Odisha**



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

List of new courses added in B.Com:

Sl. 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

**Skill Courses approved by university**

Sl. No.	Course Title	Credit
1	3D Game Art	4
2	Drug Design using Biovia Discovery Studio	4
3	Ophthalmic 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



# CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Management

Time: 3.00 p.m.

Date: 09.07.2021

Venue: Online Zoom Platform


Board of Studies Meeting

Attendance Sheet

Sl.No.	Name of the Member	Designation	Signature
1	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



**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**

**School of Forensic Sciences**

**Date: 14.07.2021**

**MINUTES OF BOARD OF STUDIES MEETING held on 09.07.2021**

Venue: Board room, BBSR

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of School of Forensic Sciences was held on 9.07.2021 at 11 a.m. at Board Room, BBSR Campus. The following members were present:

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

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 achievements 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 11.07.2020 were confirmed.**

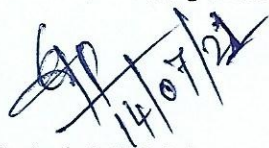
**Agenda 2: Discussion and approval on any revision required in the Curriculum of M.Sc. Forensic Science, M.Sc. Cyber Security & Digital Forensics and B.Sc. Forensic Science.**

- The Principal, SoFS gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders.
- The Board reviewed the syllabus of B.Sc. and M.sc. Programs and decided that no changes were required in the syllabus.


**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-I)

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.

  
14/07/21

Principal, SoPLS & SoFS

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



ANNEXURE-I

- Skill courses approved by BOS and to be offered in 2021-22

Sl. No.	Course Title	Credit
1	3D Game Art	4
2	Drug Design using Biovia Discovery Studio	4
3	Ophthalmic 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 BOS in 2021-22

Sl. No.	Course title	Duration of course
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



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# CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

## School of Forensic Sciences

Time: 11.00 a.m.

Date: 09/07/2021

Venue: Virtual Mode

### Board of Studies Meeting

#### Attendance Sheet

Sl. 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	Associate Professor, SoFS & SoPLS	Attended Online
5	Dr. Aruna Kumar Swain	Assistant Director, SFSL Rasulgarh	Attended Online
6	Ms. Varsha Singh	Assistant Professor, School of Forensic Sciences	Attended Online

Principal, SoPLS and SoFS

Dean, Academics  
Dean - Academic

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

**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT****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 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 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



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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.

Dean, SoABE

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

HoD, Agricultural Engineering



*Annexure-A*

**List of new courses added**

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship)	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
31	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



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*Annexure-B*

**List of existing courses where syllabus was changed**

<b>Basket/ Semester</b>	<b>Name of Course</b>	<b>No. of Modules/Topics revised</b>	<b>Revised Modules/Topics (details)</b>
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	B	2020
7	Commodity and Food Storage	29	A/B/D	2020
8	Communication Systems	18	B	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	B	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**

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
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



**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**

**School of Agricultural & Bio-Engineering**

**Department of Agricultural Engineering**

**Time: 12.00 p.m.**

**Date: 11/07/2020**

**Venue: Board Room, CUTM, Bhubaneswar**

**Board of Studies Meeting  
Attendance Sheet**

Sl. 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

Dean, SoABE

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



**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**

**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:

1. 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.



Dean, Academics

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

**Annexure-1**

**List of new courses approved**

**B.Sc. Physics**

Sl. 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**

Sl. No	Course Title	Type(Skill/Employability /Entrepreneurship)	Credit
1	Energy storage materials	Employability	4
2	Bio and biomimetic 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.

Sl. No.	Name of the Domain	Credit	Category	Year of introduction
	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			
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	B	2020
7	Commodity and Food Storage	29	A/B/D	2020
8	Communication Systems	18	B	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	B	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

**Annexure-3**



Skill Courses approved 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 CO <sub>2</sub> 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

**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**

**School of Applied Sciences**

**Department of Physics**

**Time: 11.00 a.m.**

**Date: 11.07.2020**

**Venue: Conducted in online mode**

**Board of Studies Meeting**

**Attendance Sheet**

Sl. No	Name of the Member	Designation	Signature
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1	Dr. P. K. Jain	Scientist -G, Center Head for Carbon materials division of ARCI, HYD	Attended Online
2	Dr. J K Rath	Director, Mechem Private Ltd, Bhubaneswar	Attended Online
3	Dr. Debadhyana Behera	Dept. of Physics, Ravenshaw 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	Bapuram Venkateswar 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



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

A handwritten signature in black ink, appearing to read "P. Prasad".

Dean, Academics

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



## CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

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 EEE 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 & Management  
Odisha

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

HoD, EEE Department

List of new courses added

Sl. 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

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



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





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

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 <ul style="list-style-type: none"> <li>• Incidence Matrix Formulation</li> <li>• Tie-set Matrix Formulation</li> <li>• Cut-set Matrix Formulation</li> <li>• Analysis of transient characteristics using Matlab</li> <li>• AC and DC transient response analysis for RL,RC and RLC circuits</li> <li>• Design and frequency response analysis of Low Pass filter</li> <li>• Design and frequency response analysis of High Pass filter</li> <li>• Design and frequency response analysis of Band Pass filter</li> <li>• Design and frequency response analysis of Band elimination filter</li> <li>• Fourier series expansion of Square wave</li> <li>• Fourier series expansion of Sine wave</li> </ul>
	Energy Production & Transmission	7	Practice: <ol style="list-style-type: none"> <li>1. Schematic Layout design Thermal Plant using AutoCad</li> <li>2. Schematic Layout design Nuclear Plant using AutoCad</li> <li>3. Schematic Layout design of Hydro Plant using AutoCad</li> <li>4. Preparation of Load calculator using MATLAB</li> <li>5. Designing of transmission line parameters using MATLAB</li> <li>6. Designing of Insulators and calculation of voltages using MATLAB</li> <li>7. Designing of Cables</li> </ol>
	Substation Switch gear & Protection		Practice: <ol style="list-style-type: none"> <li>1. Layout Design of 220KV substation using MATLAB</li> <li>2. Layout Design of 400KV &amp; 750KV substation using MATLAB as per IEEE standards</li> <li>3. Maintenance tests of CT &amp; PT of substation as per manufacturers Hand book</li> <li>4. Maintenance tests of Lightning Arrestor &amp; Circuit Breaker of substation as per manufacturers Hand book</li> <li>5. Maintenance tests of transformer as per</li> </ol>

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

	Industrial Power Electronics	7	<p>Simulation of V-I characteristics of power diode &amp; power transistor.</p> <p>Simulation of V-I characteristics of MOSFET &amp; IGBT.</p> <p>Simulation of V-I characteristics of silicon-controlled rectifier.</p> <p>Simulation of R and RC triggering.</p> <p>Simulation of UJT triggering</p> <p>6. Simulation of single phase half-wave and full-wave diode rectifier using R &amp; L load.</p> <p>7. Simulation of single phase fully controlled converter using R &amp; L load.</p> <p>8. Simulation of single phase semi converter using R-L load.</p> <p>9. Simulation of 3-phase semi converter with R, R-L and dc motor load with/without freewheeling diode.</p> <p>10. Simulation of 3-phase bridge converter with R, R-L and dc motor load with/without freewheeling diode.</p> <p>11. Simulation of buck converter.</p> <p>12. Simulation of boost converter.</p> <p>13. Simulation of buck boost converter.</p> <p>14. Simulation of single-phase inverter &amp; three phase inverter.</p> <p>15. Simulation of single phase AC voltage controller &amp; cyclo-converter.</p> <p>16. Simulation of converter fed dc drives (Wind Turbines).</p> <p>17. Simulation of chopper fed dc drives (PV Systems).</p> <p>18. Simulation of induction motor drives (e-Vehicle).</p> <p>19. Simulation of railway electrification system using Dymola</p> <p><b>Project</b></p>
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			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

			<p>Digitally Programmable Circuits</p> <p>Module IV</p> <p>Digital to Analog Converters</p> <p>Module V</p> <p>Digital Voltage Measurement Techniques</p> <p>Module VI</p> <p>Digital Instrument</p> <p>Module VII:</p> <p>Signal Generator, Analyzers and Oscilloscopes</p>
	Basic Electrical Engineering	7	<p>Design and Analysis of Basic electrical circuits using Dymola. Plotting the V-I Characteristics of Incandescent lamp using Dymola.</p> <p>Verification of KCL and KVL in series and parallel circuits using Dymola.</p> <p>Analysis of Thevenin's and Norton's theorem.</p> <p>3. Verification of Thevenin's and Norton's theorem using Dymola.</p> <p>Solenoids and field coils. Application of solenoids in different circuits in Automobiles and in electrical circuit.</p> <p>Study of Transformers, Linear Transformer Model, Ideal Transformer Model, No-load Loss and Load-loss Calculation.</p> <p>Calculation of current, voltage, power &amp; power factor of series RLC circuit excited by 1-<math>\phi</math> A.C Supply using Dymola.</p> <p>Measurement of power and power factor in a 3-<math>\phi</math> AC circuit by (one, two and three) wattmeter using Dymola.</p>
V	SCADA based advanced features	1	<p>SCADA BASED ADVANCED FEATURES</p> <p>4.1 Alarms</p> <p>4.2 Trends, Data base connectivity &amp; Report generation</p> <p>4.3 Recipe management</p> <p>4.4 Security</p> <p>Practice:</p> <p>P4.1 - Data fetching and representing on graph and excel</p> <p>P4.2 - Advanced controlling of industry by using SCADA</p>
	SCADA & PLC based sequential control	1	<p>SCADA &amp; PLC BASED SEQUENTIAL CONTROL</p> <p>5.1 Script</p> <p>5.2 Networking</p> <p>5.3 Device connectivity.</p>



			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)



	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



List of Skill courses (Basket) approved

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

List of Domain courses approved

Sl. 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

Sl. 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



**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**

**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**

Sl. 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

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



## CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

### School of Pharmacy and Life Sciences

Date: 11-07-2020

#### MINUTES OF BOARD OF STUDIES MEETING held on 11-07-2020

Venue: Virtual Mode

Time: 02.30 p.m.

The Board of Studies (BoS) meeting of School of Pharmacy and Life Sciences(SoPLS) was held on 11-07-2020 at 11 a.m. The following members were attended:

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 Head 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 22-06-2019 were confirmed.**

**Agenda 2: Apply M. Pharm in Pharmaceutics & Industrial Pharmacy branch.**

- The committee decided to apply for opening of M. Pharm in two specializations (Pharmaceutics & Industrial Pharmacy).

**Agenda 3: Discussion and Resolutions taken (Syllabus/Evaluation systems etc.)**

- Feedback received from expert from academics, Pharmaceutical industry & students for designing and review of syllabus.
- As per Pharmacy council of India, the statutory council which regulate the Education system in the country have restructured their syllabus in 2017. The new syllabus framed and implemented in 2018 is as per the current need Pharmaceutical sector. Hence the current syllabus is being imparted from 2018 to till date.
- School of Pharmacy and Life Sciences progress and performance in academic is reviewed and found satisfactory in syllabus, class performance and results, hence BOS after due deliberation accepted the points raised by the Dean of School of Pharmacy and Life Sciences.
- It is also resolved to follow the prescribed syllabus, credit system of PCI guide lines with an incorporation of university course code.
- Project work: The Board approved the revision of the syllabus in keeping with the latest requirements of the industry.



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**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.

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.

*GP*  
11/07/20

Dean, SoPLS

**DEAN**

**SCHOOL OF PHARMACY AND LIFE SCIENCES  
CUTM. BHUBANESWAR**

*P. Basu*

**Dean, Academics**

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



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Empowering Communities...*

**Additional Documents**  
**Appendix 1**

Skill Courses approved by 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	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 in 2020-21

Sl. 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



**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**

**School of Pharmacy and Life Sciences**

**Time:** 02.30 PM

**Date:** 11-07-2020

**Venue:** Board Room, CUTM, Bhubaneswar (Online Mode )

**Board of Studies Meeting**

**Attendance Sheet**

Sl.No	Name of the Member	Designation	Signature
1	Prof. Supriya Pattanaik	Vice Chancellor, CUTM	Attended online
2	Prof. Anita Patra	Registrar, CUTM	Attended online
3	Dr. S.K. Sahu	HOD UDPS, Utkal University	Attended online
4	Mr. Mahesh Pattnaik	Director SoPLS	Attended online
5	Mr. Sisir Panigrahi	Director SoPLS	Attended online
6	Dr. Gurudutta Pattnaik	Dean SoPLS	Attended online
7	Dr. Amulyaratna Behera	Professor SoPLS	Attended online

A handwritten signature in black ink, appearing to read 'Baran'.

**Dean, Academics**

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





**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**

**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, 3<sup>rd</sup> 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



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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. Pragyana 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

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

HoD, Phytopharmaceutical



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**Annexure-A**

**List of new courses added**

Sl. 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	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	Database Management Systems	Skill and Employability	3



*Annexure-B*

**List of existing courses where syllabus was changed**

<b>Basket/ Semester</b>	<b>Name of Course</b>	<b>No. of Modules/Topics revised</b>	<b>Revised Modules/Topics (details)</b>
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



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*Annexure-C*

**List of Skill courses**

<b>Sl. No</b>	<b>Course Title</b>	<b>Credit</b>	<b>(T+P+P)</b>
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	B	2020
7	Commodity and Food Storage	29	A/B/D	2020
8	Communication Systems	18	B	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	B	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**

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
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



**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**

**School of Agricultural & Bio-Engineering**

**Department of Agricultural Engineering**

**Time: 12.00 p.m.**

**Date: 11/07/2020**

**Venue: Board Room, CUTM, Bhubaneswar**

**Board of Studies Meeting  
Attendance Sheet**

Sl. 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

Dean, SoABE

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



**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 syllabus of following subjects for 2017-21 batch, 2018-22 batch and 2019-23 batch,

1. In 5<sup>th</sup> 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 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 4<sup>th</sup> and 3<sup>rd</sup> Semesters but for 2017-2021 batch these courses will be offered in the 5<sup>th</sup> and 6<sup>th</sup> Semesters respectively.
2. Quality Assurance of Fish and Fish products course will be offered in 6<sup>th</sup> Semester for 2018-2022 and 2019-2023 batches but for 2017-2021 batch the same course will be offered in 5<sup>th</sup> semester.
3. Taxonomy of Shellfish (FSRM-1102) which is offered in 1<sup>st</sup> semester will be shifted to 2<sup>nd</sup> semester for the convenience of the students from 2019 batch.
4. Aquaculture on Reservoirs (FSAQ-1207) which is offered in the 2<sup>nd</sup> semester will be shifted to 1<sup>st</sup> semester from 2019 batch.

Addition of matters in the following 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, Impact of Aquaculture to Environment, Quarantine.
3. Fish Food Organisms (FSAQ-2109): Copepod, polychaetes.
4. Ornamental 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 Management (FSAQ-2206) – *L. vennamei* Breeding and Hatchery Management
8. Fish Toxicology (FSHM-3105) – Endocrine disrupter chemicals

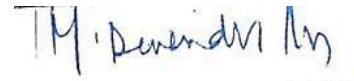
9. Fisheries Co-operative and Marketing (FSEE-3104)- NCDC, FISHCOFED, NFDB, MPEDA

10. Fisheries policy and Law (FSEE-3203): Odisha, Fisheries Policy - 2015

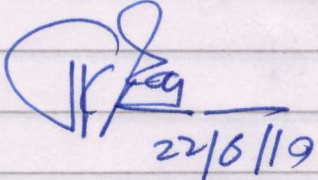
The meeting concluded with vote of thanks to the Chair.



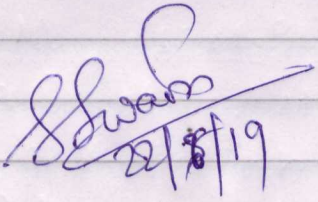
Head School of Fisheries



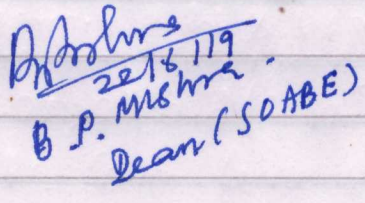
Dean (Academics) ,MSSSoA

  
22/6/19

DR JITENDRA KUMAR SUNDARAM  
HEAD OF DIVISION  
(FISH GENETICS & BIOTECHNOLOGY)  
ICAR CIFA, BHUBANESWAR

  
22/6/19

Mr. SAMBID SWAIN  
HOD, Fisheries Department of fisheries  
MSSCOA, CUTM, PKD

  
22/6/19  
B.P. Mishra  
Dean (SOABE)



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 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 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 vote of thanks to the Chair.

Dean, SoET

Dean, SOET

Centurion University of Technology & Management  
Odisha

Dean, Academics

Dean - Academic

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

22-06-19

HoD

Dept. of Civil Engineering

Centurion University of  
Technology & 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

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 Engineering	1	One module has been added depending on the industry requirement
IV	Quality Control and Risk Management in Construction	1	One module has been added depending on the industry requirement
IV	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 Scheduling and Management	1	One module has been added depending on the industry requirement
IV	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 Processing	1	One module has been added depending on the industry requirement
IV	Lidar Remote Sensing and its Applications	1	One module has been added depending on the industry requirement
IV	Smart City Planning	1	One module has been added depending on the industry requirement

List of existing M.Tech courses where syllabus was revised

<b>M Tech Structural Engineering</b>			
Sl 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
<b>M Tech Transportation Engineering</b>			
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



List of Skill courses (Basket) approved

Sl. No	Course Title	Credit	(T+P+P)
1	Refraction Technology	3	0+2+1
2	Emergency Medical Technology	3	0+2+1
3	Medical Lab Technology	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	3	0+2+1
12	Gym Fitness	3	0+2+1
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

Sl. 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

Sl. 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

Domain - 5

→ Geo Technical investigation.

Module - 6: Necessity of Water Table Study in  
Geo Tech of Engg.

→ Title of the course project amongst project  
study management. shd be done.

9

1. Dr. (Prof). Vazeer mahammood Signature  
22.06.2019

2. Prof. Prafulla Kumar Panda Signature  
22.06.19

3. Prof. Sagarika Panda Signature  
22/6/2019

4. Prof. Kamal Ku. Barick Signature  
22-06-19

5. Prof. Ranabir Kumar Jena Signature  
22.06.19

6. Prof. Prashant Nayak Signature  
22-06-19



**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 Agriculture was held on 22.06.2019 at 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 Agriculture represented 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.**

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

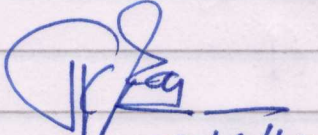
3. It was decided to introduce new supporting and minor courses in M. Sc. (Ag) and follow the guideline of BSMA, ICAR from time to time. Newly formed domains for B.Sc (agriculture) like Organic Farming, Dairy processing and development, Intensive aquaculture, Seed production using manual and molecular 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.

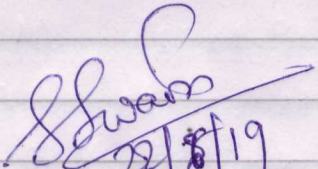
The meeting ended with a vote of thanks to the Chair.

  
Convenor of BoS & Dean MSSoA (Academics) 22.6.2019

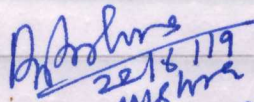
  
Dean Administration  
22.6.19

  
22/6/19

DR JITENDRA KUMAR SUNDARAM  
HEAD OF DIVISION  
(FISH GENETICS & BIOTECHNOLOGY)  
ICAR CIFA, BHUBANESWAR

  
22/6/19

Mr. SAMBID SWAIN  
HOD, Fisheries Department of fisheries  
MSSCOA, CUTM, PKD

  
22/6/19  
B.P. Mishra  
Dean (SOABE)



**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**

**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.

Dean, SoET

**Dean, SOET**

Centurion University of Technology & Management  
Odisha

Dean, Academics

**Dean Academics**

Centurion University of Technology & Management  
Odisha

HoD, Computer Science & Engineering

**HOD CSE**

**Centurion Institute of Technology**





Annexure I

List of courses partly modified

Sl. 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



## Annexure 2

List of Skill Courses offered in the Year 2019-20

S No	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

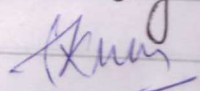
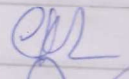
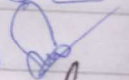
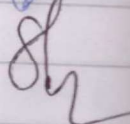
# Proceedings of BOS Meeting held on 22-06-19

## Minutes of the Meeting

Agenda - 1. Revision of Btech CSE syllabus, Basket 3, 4 & 5  
2. Btech. CTS

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 mentioned programmes were presented to the members of BOS for their final approval. The following suggestions were made, -  
- The course structure and syllabus was accepted without any changes. Following suggestions were discussed to strengthen the quality of delivery.

- 1) Few Industry lecture should be included in course pedagogy wherever applicable.
  - 2) Fundamental and basic concept must be covered before projects and practical works are under taken.
  - 3) It is suggested to keep advance java topics in the curriculum.
  - 4) More industry collaboration has to be done in order to expose students and faculty members to the real world problems and industry environment.
- The meeting was concluded with vote of thanks to the member present.

Sl no.	Name	Place/Organisation	Sig.
1.	Santosh Kumar	Mind Tree	
2.	Chandan Kumar Giri	CSE, CUTM, PKD	
3.	K. Santosh Ch. Rao	CSE, CUTM, PKD (HOD)	
4.	Surendra Nayak	CSE, CUTM, BBSR	



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 (*Annexure 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. Tech 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. (Annexure 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 vote of thanks to the Chair.

Dean, SoET

**Dean, SOET**

Centurion University of Technology & Management  
Odisha

Dean, Academics

**Dean - Academic**

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

HoD, EEE Department

**H.O.D (EEE)**

**CENTURION UNIVERSITY**

**OF**

**TECHNOLOGY AND MANAGEMENT**

*Annexure-A*

List of new courses added (B.Tech.)

Sl. No.	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Electrical Workshop Practice	Skill development	2
2	Basic Electrical Engineering	Skill development	3
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	2
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	5
14	Micro Controllers for Industrial Application (PIC)	Skill development	4



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

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

47	Solar Photovoltaic Technology	Skill development	3
48	Solar Thermal Technology	Skill development	3
49	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
53	Solar Thermal Laboratory	Skill development	2
54	Project	Skill development	6
55	Internship	Skill development	4
56	Power System Generation	Skill development	3
57	Electromagnetic Theory	Employability	3
58	Power Quality and FACTS	Skill development	3
59	Soft Computing Techniques - II	Skill development	3
60	Basic Electrical Maintenance	Skill development	3
61	Automotive Electrician	Skill development	3
62	Advanced Power Electronics	Skill development	5
63	Electrical Drives	Skill development	5
64	Advance Control System	Skill development	5
65	Instrumentation and Measurement	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	<b>Module I :</b> Basics of Measurements <b>Module II:</b> Temperature measurement <b>Module III :</b> Pressure Measurement <b>Module IV:</b> Displacement measurement <b>Module V:</b> Converters and Flow measurement <b>Module VI:</b> Signal Analyzers <b>Module VII:</b> 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 <sup>st</sup> Semester	<i>Microcontroller Application with PLC</i>	7	<b>Module-I: Introduction</b> <b>Module-II:</b> <i>Architecture of Controllers</i> <b>Module-III:</b> <i>Addressing</i> <b>Module-IV: Hardware Linking</b> <b>Module-V: Programming Basics</b> <b>Module-6: Timers, Counter, Compare</b>  <b>Module-7: Different Operational Blocks</b>
1 <sup>st</sup> Semester	SCADA-	7	<b>Module-1</b> <i>Introduction of Scada</i>

	Compatible with all PLC		<u>Module-2</u> <i>Introduction to Intouch</i> <u>Module-3</u> <i>Toolbars</i> <u>Module-4</u> <i>Wizards</i> <u>Module-5</u> <i>In touch SCADA Features-1</i> <u>Module-6</u> <i>In touch SCADA Features-2</i> <u>Module-7</u> <i>In touch SCADA Features-3</i>
1 <sup>st</sup> 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 &amp; Sensors</u> <u>Module-4</u> <u>Relay</u> <u>Module-5</u> <u>Contactors</u> <u>Module-6</u> <u>Panel Designing</u> <u>Module-7</u> <u>Starter Wiring</u>
1 <sup>st</sup> Semester	Sensors and VFD Interface to PLC and SCADA	1	<u>Module-1</u> Interface of different sensors (Temp, CT, VT, OPTO) and DRIVE (VFD) to PLC & SCADA.
2 <sup>nd</sup> Semester	SCADA- Compatible with Fixed Brand of PLC	7	<u>Module-I</u> <i>Introduction of SCADA</i> <u>Module-II</u> <i>Introduction to Rs-View 32</i> <u>Module-III</u> <i>Toolbars</i> <u>Module-IV</u> <i>Wizards</i> <u>Module-V</u> <i>Rs-View 32 SCADA Features</i> <u>Module-VI</u> <i>Rs-View 32 SCADA Features</i> <u>Module-VII</u> <i>RS-View 32 SCADA Features</i>
2 <sup>nd</sup> Semester	Distributed Control System	7	<u>Module-1</u> <i>Introduction of DCS</i> <u>Module-2</u>

			<p><i>Introduction to DCS 800F (ABB)</i></p> <p><u>Module-3</u> <i>Toolbars</i></p> <p><u>Module-4</u> <i>Engineering Station</i></p> <p><u>Module-5</u> <i>Process Station</i></p> <p><u>Module-6</u> <i>Operators Station</i></p> <p><u>Module-7</u> <i>Programming and SCADA</i></p>
2 <sup>nd</sup> Semester	Power System Monitoring by HMI	7	<p><u>Module-1</u> <i>Introduction</i></p> <p><u>Module-2</u> <i>Application Development</i></p> <p><u>Module-3</u> <i>Working on Software</i></p> <p><u>Module-4</u> <i>Control Window</i></p> <p><u>Module-5</u> <i>Property Window Basics</i></p> <p><u>Module-6</u> <i>Designing of Application</i></p> <p><u>Module-7</u> <i>Different Dynamic Displays</i></p>
2 <sup>nd</sup> Semester	POWER SYSTEM SECURITY	3	<p><u>Module-I</u> <i>Introduction to Power System Operations in Power System Security State Estimation Optimal Power Flow</i></p> <p><u>Module-II</u> <i>Security Assessment</i></p> <p><u>Module-III</u> <i>Security Enhancement Recent Techniques</i></p>
2 <sup>nd</sup> Semester	DIGITAL SIGNAL PROCESSING APPLICATIONS IN POWER SYSTEM PROTECTION	3	<p><u>Module-I</u> <i>Abnormal States in Power Systems and Criteria for Their Recognition Hardware and Functional Development of Protection Devices and Systems Fundamentals of System Analysis and Synthesis Infinite Impulse Response (IIR) Filters Finite Impulse Response (FIR) Filters</i></p> <p><u>Module-II</u> <i>Measurement Algorithms for Digital Protection Characteristic of Measurement of Criterion Values and Adaptive Algorithms Decision Making in Protective Relays Application of Artificial Neural</i></p>

			<p><i>Network</i></p> <p><b>Module-III</b></p> <p><i>Genetic and Evolutionary Algorithms for Power System Protection Expert Systems. Artificial Intelligence: Summary and Hybrid Schemes</i></p>
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*Annexure-C*

List of Skill courses (Basket) approved

Sl. 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	First Aid Service	4
8	General Duty Assistance Service	4
9	X- ray Technology	4
10	Retail Sales	4
11	Basketball	4
12	Gym Fitness	4
13	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

List of Domain courses approved

Sl. No	Domain Course Title	Credit	(T+P+P)
1	Fundamentals of industrial Automation	24	6-14-10
2	Design, Fabrication and Repair of transformer upto 33Kv level	26	2-16-8
3	Operation and Maintenance of Transmission and Distribution Systems	30	12-12-6

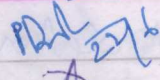

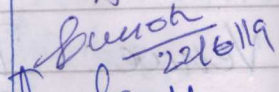
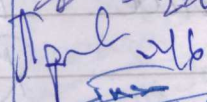
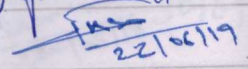
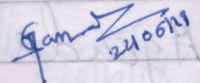
List of value added courses approved

Sl. No	Course Title	Hrs. of input
1	The Mind-Its mysteries and conquest	30 Hours
2	Understanding Personality-The Bhagavad Gita Perspective	30 Hours
3	Understanding Leadership - The Valmiki Ramayana Perspective	30 Hours
4	Organic Farming	30 Hours
5	Urban Kitchen gardens using Hydroponics	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
11	Conflict Resolution	30 Hours
12	Gender issues in Contemporary times	30 Hours
13	Natural Resource Management	30 Hours
14	Rural Livelihood and Promotion	30 Hours
15	Leadership in Organizations	30 Hours
16	Introduction to Qualitative Research Methodology	30 Hours
17	Knowledge Management	30 Hours
18	Professional Etiquette	30 Hours



12

Date :- 22/06/19

Sl. No	Name	Designation/ Place	Signature
1	Dr. P. K. Pradhan A.C.	Ex. Director COM, GRIDCO	
2	Dr. <del>A.B.</del> Biswal	Professor, EEE CUTM,	
3	Dr. P. K. Hota	Professor, EE USSUT, BUNIA	
4	Prof. Jagannath Padhi	Director, CIT	
5	Mr. Amit Ku. Sahoo	HOD, EEE, CIT	
6	Mr. Manoj Samal	HOD, EEE, PKD	



**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**

**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 vote of thanks to the Chair.



Dean, SoET  
**Dean, SOET**

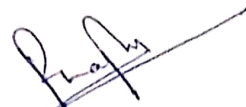
Centurion University of Technology & Management  
Odisha



Dean, Academics

Dean - Academic

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



HoD, Mechanical Engineering

List of new courses added

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Quality Control and Reliability Engineering	Skill And Employability	3
2	Fluid Power Control	Skill And Employability	3
3	Introduction to Hybrid and Electric Vehicles	Skill And Employability	3
4	Renewable Energy Systems	Skill And Employability	3
5	Manufacturing Technology 1	Skill And Employability	3
6	Manufacturing Technology 2	Skill And Employability	3
7	Design for Manufacturing	Skill And Employability	3
8	Finite Element Analysis	Skill And Employability	3
9	Digital Manufacturing	Skill And Employability	3
10	Fundamentals of Heat Engine	Skill And Employability	3
11	Design of Thermal Energy Systems	Skill And Employability	3
12	Mechanics of Machines	Skill And Employability	3
13	Strength of Material	Skill And Employability	3
14	Design of Transmission Systems	Skill And Employability	3
15	Fluid Mechanics and Heat Transfer	Skill And Employability	3
16	Introduction to Automobile Engineering	Skill And Employability	3
17	Entrepreneurship Opportunities in Automobile Trade	Skill And Employability	3
18	Maintenance of Automobile	Skill And Employability	3
19	Design of Basic Automobile Components	Skill And Employability	3
20	Subsystems of	Skill And Employability	3



	Automobile		
21	Design and Maintenance of Electric Vehicles	Skill And Employability	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	Skill And Employability	3
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	3
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 Stainless Steel, Aluminium, Copper, Cast Iron and Hard Surfacing	Skill And Employability	3
38	Testing of Welded Joints (DT, NDT & Microstructure)	Skill And Employability	3
39	Project	Skill And Employability	3
40	Internship	Skill And Employability	3

List of existing courses where syllabus was changed

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
III	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	1	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

List of Skill courses (Basket) approved

Sl. No	Course Title	Credit	(T+P+P)
1	Solar PV Installation	3	0+2+1
2	Solar Lighting Technology	3	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

Sl. No	Domain Course Title	Credit	(T+P+P)
1	Automobile Engineering	24	8+12+10

List of value-added courses approved

Sl. No	Course Title	Hrs. of input
1	Introduction to python	30
2	Gender issue	30

# BOS MEETING (22/06/19)

17-81

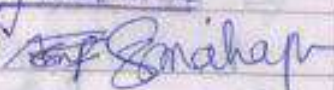
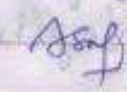



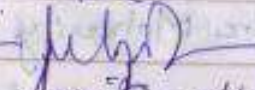
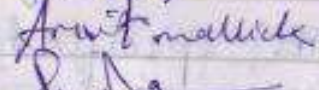




Agenda - Approval of Mechanical engineering  
Basket IV and Basket V Syllabus  
For 2018 Batch students.

Date - 22/06/19

Venue - Cad lab, CIT Campus Jatani.

Member Present -

Signature

1. Prof. S. S. Mohapatra (CIT Roukela) 
2. S. Mohanty (Nitarshal Ispat Nigam Ltd) 
3. Mr. Rabindra Das (CUTM, BBSR)
4. Prof. P. E. Rao (CUTM, PRD) 
5. Dr. A. M. Mohanty (Pro. VC) 
6. Mr. Tapas Rath (CUTM, BBSR) 
7. Dr. R. C. Mohanty (CUTM, BBSR) 
8. Prof. Anant Mallick (CUTM, PRD) 
9. Prajna Paramita Debata (HOD, ME) 
10. Mrs Ipsita Mishra 
11. Mr M. K. Rath 
12. Suddeep Kumar Singh (Asst Prog. Mechanical Engg) 





CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

School of Forensic Sciences

Date: 30.06.2019

MINUTES OF BOARD OF STUDIES MEETING held on 30.06.2019

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of School of Forensic Sciences was held on 30.06.2018 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following members were present:

1. Dr. Gurudutta Pattnaik, Principal, SoPLS
2. Mr. Mahesh Patnaik, Director, HVET
3. Dr. Debashish Jena, Associate Professor, Dept of CSC, IIIT, BBSR
4. Mr. Gyanranjan Panigrahi, Assistant Professor, BJB Autonomous College, BBSR
5. Ms. Shruti Rajwar, Assistant Professor, School of Forensic Sciences, CUTM

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 achievements 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 30-06-2018 were confirmed.

**Agenda 2:** Discussion and approval on any revision required in the Curriculum of M.Sc. Forensic Science

- The Principal, SoFS gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on the feedback, it was decided that the same syllabus will continue. The curriculum was passed by BOS without any changes.
- No new courses were introduced in M.Sc. Forensic Science.

**Agenda 3:** Introduction of B.Sc. Forensic Science programme and discussion on Course curriculum and credit system.

- Syllabus recommended by UGC was referred for the same and expert feedback was also considered while framing the curriculum.
- Type of curriculum: CBCS
- Duration of Programme: 3 yrs
- The Board approved the courses of Program. Total 38 no. of courses were approved. (Annexure-I)

**Agenda 4:** Introduction of M.Sc. Cyber Security & Digital Forensics programme and discussion on Course curriculum and credit system.

- Syllabus recommended by UGC was referred for the same and expert feedback was also considered while framing the curriculum.



- Duration of Programme: 2 yrs
- The Board approved the courses of Program. Total 16 no. of courses were approved. (Annexure-II)

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

GP  
30/06/19

Principal, SoPLS & SoFS

*Basan*

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

ANNEXURE-I

List of New Courses of B.Sc. Forensic Science

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
<b>Semester I</b>			
1.	BSFS0401 - Basics of Forensic	Skill	6
2.	BSFS0402 - Crime and Society	Skill	6
3.	Ability enhancement Course	Skill	2
4.	Generic Elective	Skill	6
<b>Semester II</b>			
5.	BSFS0403 - Criminal Law	Skill	6
6.	BSFS0404 - Forensic Psychology	Skill	6
7.	Ability enhancement Course	Skill	2
8.	Generic Elective	Skill	6
<b>Semester III</b>			
9.	BSFS0405 - Forensic Dermatoglyphics	Employability & Skill	6
10.	BSFS0406 - Technological Methods in Forensic	Employability & Skill	6
11.	<del>BSFS0407</del> - Criminalistics	Employability & Skill	6
12.	Ability Enhancement Elective (Skill Based) course	Skill	2
13.	Generic Elective	Skill	6
<b>Semester IV</b>			
14.	BSFS0408 - Forensic Chemistry	Employability & Skill	6
15.	BSFS0409 - Questioned Documents	Employability, Entrepreneurship & Skill	6
16.	BSFS0410 - Forensic Biology	Employability & Skill	6
17.	Ability Enhancement Elective (Skill Based) course	Skill	2
18.	Generic Elective	Skill	6
<b>Semester V</b>			
19.	BSFS0411 - Forensics Ballistics	Employability & Skill	6
20.	BSFS0412 - Forensic Toxicology	Employability & Skill	6
21.	Discipline Specific Elective (DSE)	Employability & Skill	6
22.	Discipline Specific Elective (DSE)	Employability & Skill	6
<b>Semester VI</b>			
23.	BSFS0413 - Forensic Anthropology	Employability & Skill	6
24.	BSFS0414 - Forensic Medicine	Employability & Skill	6
25.	Discipline Specific Elective (DSE)	Employability & Skill	6
26.	Discipline Specific Elective (DSE)	Employability & Skill	6
<b>ABILITY ENHANCEMENT COURSE</b>			
27.	BSFL1101 - English	Skill	2
28.	FCBS0101 - Environmental Science	Skill	2
<b>ABILITY ENHANCEMENT ELECTIVE (SKILL BASED) COURSE</b>			
29.	BSSE0201 - Introduction to Biometry	Skill	2
30.	BSSE020 - Handwriting Identification and Recognition	Skill	2
<b>DISCIPLINE SPECIFIC ELECTIVE (DSE COURSES)</b>			


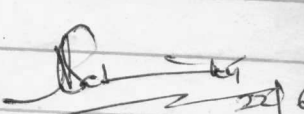
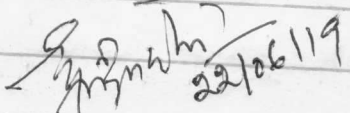
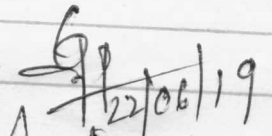
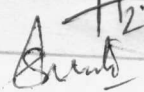
31.	DEFS0401 - Digital Forensics	Employability & Skill	6
32.	DEFS0402 - Economic Offences	Employability & Skill	6
33.	DEFS0403- Forensic Serology	Employability & Skill	6
34.	DEFS0404 - Accident Investigations	Employability & Skill	6
35.	DEFS0405 - DNA Forensics	Employability & Skill	6
36.	DEFS0406 - Audio Recognition and Video Analysis	Employability & Skill	6
37.	DEFS0407 - Explosive Analysis and Post Blast	Employability & Skill	6
38.	DEFS0408 - Quality control and Quality Assurance	Employability & Skill	6
<p><b>GENERIC ELECTIVE (GE)</b>  <u>Subjects From other Disciplines ( One each in Semester I, II, III, IV )</u></p>			

ANNEXURE-II

- List of new courses of M.Sc. Cyber Security and Digital Forensics

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
<b>Semester I</b>			
1.	MSCS1101 - Principles of Information Security	Employability	4
2.	MSCS1102 - Digital Forensics	Employability	6
3.	MSCS1103 - Computer Networks	Employability & Skill	6
4.	MSCS1104 - Cyber Crime & Investigations	Employability & Skill	4
5.	MSCS1105 - Intellectual Property Rights	Employability	4
<b>Semester II</b>			
6.	MSCS1201 - Number theory & Cryptography	Employability & Skill	4
7.	MSCS1202 - Advanced Information Security	Employability & Skill	4
8.	MSCS1203 - Cyber Forensics	Employability & Skill	6
9.	MSCS1204 - System and Network Security	Employability & Skill	6
10.	MSCS1205 - Cyber Law	Entrepreneurship	4
<b>Semester III</b>			
11.	MSCS2101 - Mobile Security Analysis	Entrepreneurship	6
12.	MSCS2102 - IT Governance, Risk and Compliance	Entrepreneurship	4
13.	MSCS2103 - Business Continuity Planning (BCP) And Disaster Recovery (Dr)	Skill	4
14.	MSCS2104 - Penetration Testing & Vulnerability Assessment	Employability	6
15.	MSCS2105 - Digital Frauds	Employability	4
<b>Semester IV</b>			
16.	MSCS0301 - Project/Dissertation	Employability	24

Members Present:

- |   | <u>Signature</u>  |
|---|---|
| ① Dr. Debasish Jena, (EXTERNAL)<br>Associate Professor,<br>Dept. of CSC, IIT, Bhubaneswar | <br>22/06/19   |
| ② Mr. Mahesh Pattnaik (INTERNAL)  | <br>22/06/19   |
| ③ Mr. Gyana Ranjan Panigrahi  | <br>22/06/19   |
| ④ Prof. Gurudutta Pattnaik (INTERNAL)   | <br>22/06/19  |
| ⑤ Ms. Shruti Rajwar (INTERNAL)  | <br>22.06.19 |



**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:  
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, 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*.

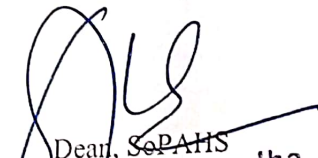
**Agenda 3: Inclusion of courses on Domain, life skills and value addition**

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.


Details 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.

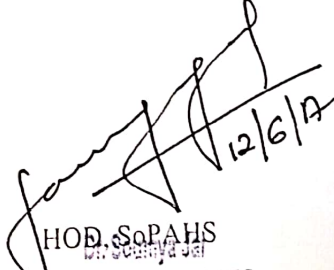
The meeting ended with a vote of thanks to the Chair.



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



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



12/6/17  
HOD, SoPAHS  
Associate Professor & HOD  
School of Paramedics & Allied Health Sciences  
Centurion University of Technology & Management  
Bhubaneswar, Odisha-752050



Annexure A

List of new courses added

Sl. No	Course Title	Type (Skill/ Employability/ Entrepreneurship)	Credit
	<b>MSc MLT</b>		
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
	<b>MSc CMB</b>		
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
	<b>BSc MLT</b>		
1.	Clinical Pathology lab	Entrepreneurship	2
2.	Microbiology lab	Entrepreneurship	2
3.	Molecular Biology	Entrepreneurship	4
4.	Immunology lab	Employability	2
5.	Histopathology lab	Employability	2
6.	Biochemistry lab	Employability	2
7.	Parasitology lab	Employability	2
8.	Mycology and Virology lab	Employability	2
9.	Mini Project	Employability	2
	<b>BSc CMB</b>		
1.	Clinical Pathology lab	Entrepreneurship	2
2.	Microbiology lab	Entrepreneurship	2
3.	Virology and Mycology lab	Employability	2
4.	Analytical Biochemistry	Employability	4
5.	Industrial Microbiology lab	Employability	2
6.	Public Health Microbiology lab	Employability	2
7.	Biochemistry lab	Employability	2
8.	Diagnostic Bacteriology lab	Employability	2
9.	Mini Project	Employability	2



List of existing courses where syllabus was changed

Basket/ Semester	Name of Course	No. of Modules/Topics 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 CMB			
	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 Science	3	Credits modified from 4 to 2 credits based on experts' suggestion
	Introduction to Quality and Patient Safety	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
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	3	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

List of Domain courses approved

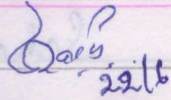
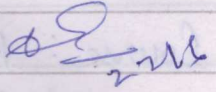
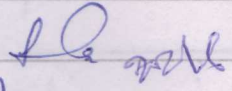
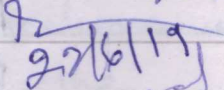
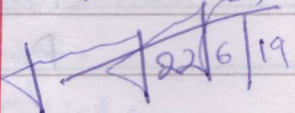
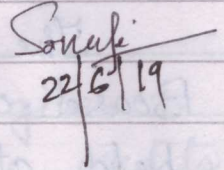
Sl. No	Domain Course Title	Credit	(T+P+P)
1.	Microbiology	28	(14+8+6)
2.	Medical Lab Technician	28	(12+10+6)
3.	Radiology and Imaging Technology	30	(14+10+6)

List of Skill courses (Basket) approved

Sl. No	Course Title	Credit	(T+P+P)
1.	Ophthalmic Lens and spectacle manufacturing Techniques	4	0+3+1
2.	Medical Diagnostic Techniques	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	4	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	0+3+1

List of value-added courses approved

Sl. No	Course Title	Hrs. of input
1.	Human Rights (FCMG0115)	30 hrs
2.	Gender Issues in Development (FCMG0401)	30 hrs

SLNO	NAME	PLACE	SIGNATURE
1	Dr. Debi Prasad Rath	M-81, Kapil Prasad Phareji Bhimsinghi BBSR	 22/6
2	Dr. Debasish Saha	AP/Dr B. Lakshy BBSR-3	 22/6
3	Dr. Anshu Choudhary	Hitech Medical College	 22/6
4	Dr. K. Sha	Dean SPAHS	 22/6/19
5	Dr. Soumya Tal	HOD, SPAHS	 22/6/19
6	Soufai Dash	Visiting faculty SPAHS	 22/6/19



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Empowering Communities*

2018-19

Board of Studies

**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 –I syllabus. However, the members of BOS has not been recommended the said modification for immediate implementation (Annexure-2)





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**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.

*[Handwritten Signature]*  
HoD, Chemistry  
30.6.2018

Department of Chemistry  
School of Applied Sciences  
CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT  
Bhubaneswar, Odisha

*[Handwritten Signature]*  
Dean, SoAS  
30.6.2018

DEAN  
School of Applied Sciences  
CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT  
Bhubaneswar, Odisha

*[Handwritten Signature]*

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





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### Annexure I

#### B. Sc. Chemistry Syllabus (III to VI semester)

Type of curriculum; CBCS/Elective/NEP: B.Sc : CBCS

List of new courses added

Sl. No	Course Title	Type(Skill/Employability/ Entrepreneurship)	Credit
<b>B.Sc( Semester -III)</b>			
1	Inorganic chemistry-II	Employability	6
2	Organic Chemistry-II	Employability	6
3	Physical Chemistry-III	Employability	6
4	Inorganic Chemistry-III	Employability	6
<b>B.Sc( Semester -IV)</b>			
1	Organic Chemistry-III	Employability	6
2	Physical Chemistry-IV	Employability	6
3	Organic Chemistry-IV	Employability and Skill	6
4	Physical Chemistry-V	Employability and Skill	6
<b>B.Sc( Semester -V)</b>			
5	Inorganic Chemistry-IV	Employability and Skill	6
6	Organic Chemistry-V	Skill	6
7	Environmental Science	Employability and Skill	6
8	Industrial Chemicals and Environment	Employability	6
9	Inorganic Materials of Industrial Importance	Skill	6
10	Research Methodology for Chemistry	Skill and Employability	6
<b>B.Sc( Semester -VI)</b>			
11	Instrumental Methods of Chemical Analysis	Skill	6
12	Basic Pharmaceutical Chemistry	Skill	6
13	Analytical Clinical	Skill	6





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	Biochemistry		
14	Green Methods in Chemistry	Skill	6
15	Basic Analytical Chemistry	Skill	6



**Annexure-II**

**BASKET - I (B.Tech-All  
programs)**

<i>Course Code</i>	<i>Course Title</i>	<i>Course Type</i>	<i>Credits</i>	<i>Prerequisite</i>	<i>Department Offering</i>
<i>FCBS0401</i>	<i>Applied Analytical Chemistry</i>	<i>Theory + Practice</i>	<i>3</i>	<i>Nil</i>	<i>Chemistry</i>
<i>FCBS0402</i>	<i>Industrial Chemistry</i>	<i>Theory + Practice</i>	<i>3</i>	<i>Nil</i>	<i>Chemistry</i>
<i>FCBS0403</i>	<i>Applied Engineering Materials</i>	<i>Theory + Practice</i>	<i>3</i>	<i>Nil</i>	<i>Chemistry</i>
<i>FCBS 0101</i>	<i>Environmental Science</i>	<i>Theory</i>	<i>3</i>	<i>Nil</i>	<i>Chemistry</i>



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**Annexure-III**

**List of Value added courses**

**List of Skill Courses**

Sl. No	Course Title	Type(Skill/Employability/Entrep reneurship)	Credit
1	Basic Herbal Technology	Skill	2
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	4
8	Project	Skill	6



12 11

3. Dr. MLN Acharyulu has suggested some modification in the B.Tech(CSCS) Basket-I syllabus. However the members of BOS, has <sup>not</sup> recommended the said modification for immediate implementation.

*[Signature]*  
25/6/18  
(Prof. K. Sarthi)  
OJSCU

*[Signature]*  
25/6/18

*[Signature]*  
30.6.18

*[Signature]*  
30th June 2018  
(CUM Balangir)

*[Signature]*  
30.6.18

*[Signature]*  
30.6.18  
(Dr. MLN Acharyulu)  
CUM, A.P



**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, Associate 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)





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- 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 vote of thanks to the Chair.

Dean, SoET

Dean, SOET

Centurion University of Technology & Management  
Odisha

Dean, Academics

Dean - Academic

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

HoD, Civil Engineering

HOD

Dept. of Civil Engineering  
Centurion University of  
Technology & Management, BBSR



**List of new courses**

Sl. 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

List of existing courses where syllabus was revised

Basket/ Semester	Name of Course	No. of Modules/To pics revised	Revised Modules/Topics (details)
IV	Pre-Fabricated Structures	1	One module has been added depending on the industry requirement
IV	Transportation Engineering	2	One module has been added depending on the industry requirement
IV	Water supply & Waste water Management	2	One module has been added and another module is merged with slight change as per industry requirement
IV	Hydrology & Water Resources Engineering	1	One module has been added depending on the industry requirement
IV	Quality Control and Risk Management in Construction	1	One module has been added depending on the industry requirement
IV	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 Scheduling and Management	1	One module has been added depending on the industry requirement
IV	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 Processing	1	One module has been added depending on the industry requirement
IV	Lidar Remote Sensing and its Applications	1	One module has been added depending on the industry requirement
IV	Smart City Planning	1	One module has been added depending on the industry requirement
IV	Geometric Modeling Lab	1	One module has been added depending on the industry requirement
IV	Hydraulics & Hydraulic Machine	2	One module has been added depending on the industry requirement
IV	Pre-Fabricated Structures	1	One module has been added depending on the industry requirement
IV	Foundation Engineering	1	One module has been added depending on the industry requirement
IV	Computer Aided Design of Concrete Structure	1	One module has been added depending on the industry requirement
IV	GIS and Digital Cartography	2	One module has been added depending on the industry requirement
IV	Construction Equipment Management	2	One module has been added depending on the industry requirement
IV	Geotechnical Investigations	2	One module has been added depending on the industry requirement
IV	Software Based Project Scheduling and Management	3	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 and Digital Image Processing	1	One module has been added depending on the industry requirement

*Annexure-C*

**List of Skill courses (Basket) approved**

Sl. No	Course Title	Credit	(T+P+P)
1	Introduction to Composite Manufacturing	CUTM3042	0+3+1
2	3D Modelling and Printing	CUTM3043	0+3+1
3	Precast Concrete Manufacturing	CUTM3045	0+3+1
4	Fabrication	CUTM3046	0+3+1
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
12	Desktop Publishing	CUTM3055	0+3+1
13	Introduction to Blender and Unity tools	CUTM3056	0+3+1

**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**

Sl. 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



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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 Civil  
Engg held on 30/06/2018 at Jalni Campus.

Considered the syllabus Basket-3 & 4 and following recommendations were made.

Recommendation - 1.

→ Inclusion of soil mechanics in basket IV as it is strongly recommended.

Recommendation - 2

→ In foundation Engg. course, the following changes are suggested.

Mod 1: Shallow foundation

Mod 2: Deep foundations.

Mod 3: Earth pressure & stability of slopes.

Mod 4: Computer aided design of shallow & deep foundation.

→ Module name: mention.

\* Recommendation - 3

→ In Transportation Engg module-2, in place of conc. pavement design write flexible & rigid pavement design & analysis, pavement failures.

\* Recommendation - 4

Highway materials characterisation.

\* Recommendation - 5

Credit reduction from one each, TE, RCCI, Functional planning & DPR.

1. Prof. C.H.V. Sanyalreddy

2. Prof. Manoj Kumar Raut

3. Genaraj, Prof. R.C. Pathy

4. Mr. Siba Mishra

5. Prof. D. S. S. S. S. S.

Prof. S. S. S. S. S.

Prof. S. S. S. S. S.



**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 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.

Dean, SoET

**Dean, SOET**

Centurion University of Technology & Management  
Odisha

Dean, Academics

**Dean Academics**

Centurion University of Technology & Management  
Odisha

HoD, Computer Science & Engineering

**HOD CSE**

**Centurion Institute of Technology**



Annexure-1

No. of new courses added with credit

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Programming for Problem Solving – Java	Skill And Employability	3
2	Data Base Management System	Skill And Employability	3
3	Problem Solving & Programming	Skill And Employability	3
4	Data Structures and C Programming	Skill And Employability	4
5	Operating System	Skill And Employability	4
6	Big Data Analytics	Skill And Employability	4
7	Block Chain and Smart Contracts	Skill And Employability	3
8	Programming Internet of Things	Skill And Employability	3
9	AI Tools, Techniques and applications	Skill And Employability	4
10	Cloud Computing and its applications using Linux OS	Skill	4
11	Problem Solving using Python	Skill And Employability	3
12	Object Oriented Programming through Java	Skill And Employability	4
13	Web Technologies	Skill And Employability	4
14	Software Engineering using Agile	Skill	4
15	Internet of Things	Skill And Employability	3
16	Build your own Computer	Skill And Employability	2
17	Cloud Computing Application	Skill And Employability	4
18	Mobile App Development	Skill And Employability	4
19	Introduction to Gaming & Simulation	Skill And Employability	3
20	Introduction to Cyber Security	Skill And Employability	3
21	AI & ML. using Python	Skill And Employability	3



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22	Object Oriented Analysis and Design	Skill And Employability	4
23	Systems Programming	Skill	4
24	Computer Networks	Skill And Employability	3
25	Cloud Infrastructure	Skill And Employability	4
26	Project	Skill And Employability	2
27	Computer Organization and Architecture	Skill And Employability	3
28	Formal Language and Automata Theory	Skill	4
29	Design Analysis and Algorithms	Skill	4
30	Network Security and Cryptography	Skill	3
31	Data Warehousing and Data Mining	Skill	4
32	Introduction to Gaming & Simulation	Skill And Employability	4
33	Game Assets & Game Objects	Skill And Employability	4
34	Building Game Environment	Skill And Employability	4
35	Game Animation, Scripting & UI	Skill And Employability	4
36	Binary Deployment and Cross-Platform Controls	Skill And Employability	4



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List of existing courses where syllabus was revised

Basket/ Semester	Name of Course	No. of Modules/Topics revised
IV	Operating System	Introduction: Architecture, Goals & Structures of O.S, Basic functions, Interaction of O. S. & hardware architecture, System calls, Batch, multiprogramming. Multitasking, time sharing, parallel, distributed & 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.



Appendix 2

Domain Courses

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

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	CUTM3043	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
1	LSD-2	CUVA0011	30 Hours
2	Conduct in daily Life- Insights from The Panchatantra	CUVA0033	30 Hours
3	Human Rights	CUVA0034	30 Hours
4	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
15	Emotional Intelligence	CUVA0063	30 Hours
16	Home remedies for healthy living	CUVA0062	30 Hours
17	Self-Management: Insights from Srimad Bhagavad Gita	CUVA0061	30 Hours
18	LSD-2	CUVA0011	30 Hours
19	Conduct in daily Life- Insights from The Panchatantra	CUVA0033	30 Hours

courses offered in the Basket III as the new technologies like cloud computing, Data Analytics, Agile Software Development etc. were introduced.

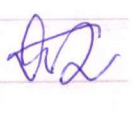
- Students were facilitated with more scope for doing minor projects.


\* No of new skill course are added with credit.


\* No. of course partly modified:

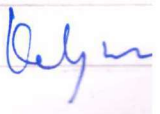
Sl.No	Course Title	Type	Credit	Detail of modification
1	operating system programming	skill	3	30% content mod


\* No. of value added course introduced.

1. Dr. Debi Prasad Dogra, Asst. Prof, IIT Bhubaneswar, 

2. RAJESH FRANCIS, V.P. Exuber Software solutions, 

3. Dr. ANURAG, PVC, CUTM 

4. K-V. Kalpan ~~Asst~~ Professor CUTMAP 

5. K. Santoshchandra RAO HOD, CSE, CUTM Paralakhemundi 



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 30.06.2018 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 curriculum thoroughly 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

Dean  
School of Management  
Centurion University, Odisha

Dean, Academics

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



(i) List of new courses added in MBA

Sl. No	Course Title	Type (Skill/ Employability/ Entrepreneurship)	Credit
<b>Electives of Semester III and IV</b>			
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
11	Risk Hazard and Environment	Employability	2
12	Energy Conservation & Update	Employability	4
13	Maintenance Management and Inventory Control	Employability	4

List of new courses added in MBA DM & ABM

Sl. No	Course Title	Type (Skill/ Employability/ Entrepreneurship)	Credit
<b>Semester-I</b>			
1	Introduction to Indian Society	Employability	2
2	Marketing Management	Employability & Entrepreneurship	4
3	Accounting for Managers	Employability & Entrepreneurship	4
<b>Semester-II</b>			
3	Financial Management	Employability & Entrepreneurship	4
4	Sustainable Entrepreneurship Development	Employability & Entrepreneurship	4
5	Skill Ecosystem Development	Employability	4
6	Innovation and Regional Development	Employability	4
7	Project Management	Employability & Entrepreneurship	4
<b>Semester-III</b>			
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
<b>Semester-IV</b>			
14	Development Action Research Thesis	Skill development	10
16	Agriculture Action Research Thesis	Skill development	10



**Skill Courses approved by university**

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	30 Hours
8	Basics of Photography	30 Hours
9	Innovation Management	30 Hours
10	Effective Writing	30 Hours
11	Indian Culture and History	30 Hours
12	Critical Thinking	30 Hours
13	Disability, Diversity and Development	30 Hours
14	Intellectual Property Rights	30 Hours
15	Emotional Intelligence	30 Hours
16	Home remedies for healthy living	30 Hours
17	Self-Management: Insights from Srimad Bhagavad Gita	30 Hours

# SIGNATURES OF MEMBERS

## FINAL MEMBERS

- R. P.K. DAS
- R. P.K. MISHRA
- R. A.K. MOHANTY


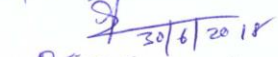

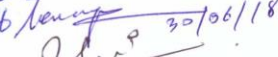





## SIGNATURES

## INTERNAL MEMBERS

- Prof. ANITA PATRA (REGISTRAR)  
(Professor SOM)
- Prof. K.V.D. PRAKASH (DEAN-IEEE RD)
- Prof. BIJAY BHUTARAL
- Prof. P.K. MOHANTY
- Prof. UMAKANT NAYAK
- Prof. SHIVSANKAR DAS
- Prof. BIBHUNANDIN DAS
- Prof. PRAMOD PATI JOSHI
- Prof. RASHMI RANJAN PARIDA

## SIGNATURES



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
2. 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 research 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 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.

A handwritten signature in black ink, appearing to be 'C. K. Singh'.

Director, SoMC

A handwritten signature in black ink, appearing to be 'Basu'.

Dean, Academics

A handwritten signature in black ink, appearing to be 'A. S. M.'.

HoD, SoMC

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



List of new courses added in MA-MC

Sl. 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
11	Sound Engineer	Skill development	2
12	Adobe tools and illustrations	Skill Development and Employability	4
13	Advance Skill Course	Skill Development	4

List of new courses added in BA-MC

Sl. 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



## 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	Solid Waste Management	30 Hours
8	Smart Agriculture	30 Hours
9	Adobe Tools	30 Hours

5. Media Sustainability and International Communication, which were originally two papers have been merged to one paper under the nomenclature "~~Social~~ Media, Society and Communication".


6. New electives such as


1. Camera operator.
2. Video Editor
3. Sound Engineer
4. Animator
5. Adobe tools and Illustrator

have been included as Electives along with other Electives which were there earlier.


These five courses are also slated to be delivered as three months certificate programmes in collaboration with our partner "KOSHISH".

7. It is suggested, that, the Bachelor and Masters Courses be re-positioned to reflect new and cutting edge technology and disciplines. Details are in the appendix.

  
Jayant Kumar Bhatnagar

  
Ashok Kufonde

  
Anshika Sarikol Mishra

  
CHANDRABHANU PATTANA



**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.



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**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

Dean, SOET

Centurion University of Technology & Management  
Odisha

Dean, Academics

Dean - Academic

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

HoD, Civil Engineering

HOD

Dept. of Civil Engineering  
Centurion University of  
Technology & Management, BBSR



List of new courses added

Sl. 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

**List of Skill courses (Basket) approved**

Sl. 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**

Sl. No.	Name of the Domain	Credit	Category
1	Automotive Design	40	B
2	Cloud Technology	18	B
3	Construction Planning Monitoring and Project Management	16	A/B
4	Data Analytics	20	A/B/D
5	Embedded System Design	18	B
6	Industrial Automation	24	B
7	Information Security	41	B
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	A
14	Web Technology	38	A/B
15	Welding And Inspection	24	A/B



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### List of value added courses approved

Sl. 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

Civil Proceedings of Board of Studies in  
Civil Engineering dt 12-06-2017 at JATA Camp

Considered the syllabus under Domains 1, 2, & 3 and the following recommendations were made.

Rec 1. The course on Geotech Sensest & G.I.T. to be recommended as Geotech Investigation and the Topics related to Ground Improvement to be covered in a new subject "Geo Synthetics and Ground Improvement Technics" under a separate Domain (General Domain).

Recommendation-2: To add the following subjects in the Proposed "General Domain".

- (a) Transportation Engineering (Railway, Airport and Harbour Engineering)
- (b) Green Buildings.
- (c) 3D-Building Technology.
- (d) Geo Synthetics & Ground Improvement Technics.
- (e) Concrete Technology.

Recommendation-3: Syllabus 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 prof: M.L. Narasimham.

Recommendation-4: The Syllabi of the Domain-1, Domain-2 & Domain-3 are approved.

~~Sylla~~ Syllabi for M.Tech courses is also approved.

Cm Reddy

(Prof. C.N.V. Satyanarayanan Reddy  
A.U.)

(Prof. M.L. Narasimham)  
12/6/17

12/6/17  
Cvijaganam @

Behar  
12/6/17  
Prof. S.P. Behar

12/6/17

MUM 2



## 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 Communication Engg.**

- The HoD, Electronics and Communication 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 3<sup>rd</sup> to 8<sup>th</sup> 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)



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**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 Communication 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 & Management  
Odisha

Dean, Academics

Dean - Academic

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

HoD, Electronics & Communication  
Engg.





**Annexure-1**

**List of new courses added**

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship)	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**

Sl. No	Course Title	Type	Credit	Details of modification
1	Electromagnetic Field Theory and Transmission line	Employability	4	Module VII is updated



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## Annexure 2

**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	Automotive Design	40	B	2017
2	Cloud Technology	18	B	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	B	2017
6	Industrial Automation	24	B	2017
7	Information Security	41	B	2017
8	Internet Security	38	B	2017
9	Manufacturing (Conventional, CNC And Additive)	26	A/B	2017
10	Planning, Design & Drawing	47	B	2017
11	Software Technology	20	A/B	2017
12	Surveying	36	A	2017
13	VLSI Design & Verification	42	A	2017
14	Web Technology	38	A/B	2017
15	Welding And Inspection	24	A/B	2017



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### Annexure-3

Skill Courses approved by university

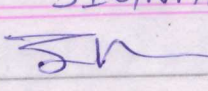
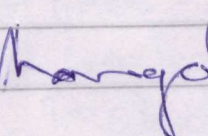
S No	Course	Course Code	Credit
1	Apparel Production & Marketing	CUTM3029	4
2	Line Stitching Supervising	CUTM3030	4
3	Apparel Production	CUTM3031	4
4	Light Motor Vehicle Driving	CUTM3032	4
5	Fork Lift Operation	CUTM3033	4
6	Heavy Vehicle Technology	CUTM3034	4
7	Two Wheeler Service Technology	CUTM3035	4
8	Four Wheeler Service Technology	CUTM3036	4
9	E-Vehicle Assembly and Service Technology	CUTM3037	4
10	Robotics	CUTM3038	4
11	Poultry Farming	CUTM3039	4
12	CNC Programming (CAM)	CUTM3040	4
13	Design Supervising Wooden and Modular Furniture	CUTM3041	4



### 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

Sl. No.	NAME	CUTM PLACE	SIGNATURE
1.	Dr. S. K. Mandal	Bhubaneswar	
2.	Mr. Managobinda Mishra	NEMHANS, Bhubaneswar	
3.	Dr. Sadgasis Mishra	CUTM, Bhubaneswar, EOE	S. Mishra.
4.	Prof Satya Narayan Padhy	CUTM, Paralakhemundi	padhy
5.	Dr. D. P. Acharya	NIT, Rourkela	→ refer mail



**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**

**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.Raghuv eer, 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 syllabus 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 & M.  
Odisha

Dean, Academics  
Dean - Academic

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

HoD, Mechanical Engineering

**List of new courses added**

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Manufacturing Technology 1	Skill And Employability	3
2	Manufacturing Technology 2	Skill And Employability	3
3	Internal Combustion Engines	Skill And Employability	3
4	Renewable Energy Systems	Skill And Employability	3
5	Fluid Power	Skill And Employability	3
6	Mechanics of Machines	Skill And Employability	3
7	Fluid Mechanics and Heat Transfer	Skill And Employability	3
8	Strength of Material	Skill And Employability	3
9	Finite Element Analysis	Skill And Employability	3
10	Introduction to Refrigeration & HVAC	Skill And Employability	3
11	Control System for Refrigeration & Air Conditioning	Skill And Employability	3
12	Design and Maintenance of Automobile Air Conditioning	Skill And Employability	3
13	Maintenance and Testing of Refrigerator	Skill And Employability	3
14	Maintenance and Testing of Coolers, Window and Split AC	Skill And Employability	3
15	Design and Maintenance of Central Air Conditioning Plant	Skill And Employability	3
16	Design and Maintenance of Cold Storage	Skill And Employability	3
17	Joining Processes & Technology	Skill And Employability	3
18	Arc Welding, Gas Welding & Brazing	Skill And Employability	3
19	Metal Transfer & Weld Metallurgy	Skill And Employability	3
20	Design of Welded Joints	Skill And Employability	3
21	Welding of Stainless Steel, Aluminium, Copper, Cast Iron and Hard Surfacing	Skill And Employability	3
22	Testing of Welded Joints (DT, NDT & Microstructure)	Skill And Employability	3
23	Introduction to Automobile Engineering	Skill And Employability	3





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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**

<b>Basket/ Semester</b>	<b>Name of Course</b>	<b>No. of Modules/Topics revised</b>	<b>Revised Modules/Topics (details)</b>
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

**List of Skill courses (Basket) approved**

Sl. 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**

Sl. 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**

Sl. 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<sup>th</sup> Bost meeting for the session

9  
01

Agenda - Approval for B-Tech mechanical Engineering  
Course structure & syllabus for Bostet-IV (Domain  
specific subjects) for CBCS for academic  
Year and m.tech by Research

DATE :- 12-6-2017

VENUE :- CAD lab, CIT Campus, AFNS.

Members present :-

- 1) Prof. S.K. Mahapatra, IIT. Bhubaneswar
- 2) Shri. Ali Bishare Patnaik, managing director,  
Orissa Orifert, (Ashok leyland)
- 3) Prof. P.S. Rao, DEAN R & D, Parlorchemur.
- 4) Prof. B.P. Mishra, DEAN, SOE, Parlorchemur.
- 5) Prof. R.C. Mohanty, Dept of Mech Engineering, CIT
- 6) Mrs. Ipsita Mishra, HOD, Dept of mech, CIT
- 7) Mr. D. Raghuram, HOD, Dept of Mech, Parlorchemur
- 8) Mr. Babuli Kumar Jena, Dept of mech, CIT
- 9) Mr. Manas Ranjan Padhi, Dept of mech, CIT
- 10) Mr. G.N. ARKA, Dept of mech, CIT
- 11) Mr. Sudeep Singh, Dept of mech, CIT
- 12) Mukundjee Pandey, Dept of Mech, CIT, IIT

  
12/6/2017

Shrinu Ali Kishore Patnaik  
MD, Orissa diesel.

Prof. P. S. Rao  
DGAN, R & D

Prof. R. C. Mohanty  
Dept of Mech.

Mrs. Smita Mishra  
HOD, Mech, IIT

Mr. D. Raju Rao  
HOD, Mech, Parbhani Chemud.

Prof. S. K. Matapala  
Professor, IIT BBSR

**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**

**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 2<sup>nd</sup> 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)**



**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.

  
Dean, SoAS  
12.6.2017

**DEAN**  
**School of Applied Sciences**  
**CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT**  
**Bhubaneswar, Odisha**

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

## Annexure I

### B. Sc. Botany Syllabus (3<sup>rd</sup> to 6<sup>th</sup> semester)

#### Semester-III

Sl. No.	Code	Subject Name	Type (L-T-P)	Credits
1	BSBO2301	Anatomy of Angiosperms	3-1-3	6
2	BSBO2302	Economic Botany	3-1-3	6
3	BSBO2303	Basics of Genetics	3-1-3	6
4	GE-3 <sup>#</sup>	Inter Disciplinary Subject		6
5	SEC-1 <sup>#</sup>	Skill Enhancement Course-1	0-0-3	2
		Total		26

#### Semester-IV

Sl. No.	Code	Subject Name	Type (L-T-P)	Credits
1	BSBO2401	Molecular Biology	3-1-3	6
2	BSBO2402	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

Sl. 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

Sl. No.	Code	Subject Name	Type (L-T-P)	Credits
1	BSBO3601	Plant Metabolism	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

#### Discipline Specific Elective Courses (DSE)

Sl. 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



## Annexure II

### M. Sc. Botany Syllabus (1<sup>st</sup> to 4<sup>th</sup> semester) Course Structure-2017

#### Semester-I

Sl. No.	Code	Subject Name	Type (L-T-P)	Credits
1	MSBO1101	Microbiology	3-1-0	04
2	MSBO1102	Plant Diversity	3-1-0	04
3	MSBO1103	Cell Biology	3-1-0	04
4	MSBO1104	Plant Ecology	3-1-0	04
5	MSBO1105	Botany Laboratory-I	0-0-6	04
		Skill I	0-0-3	04
<b>Total</b>				<b>24</b>

#### Semester-II

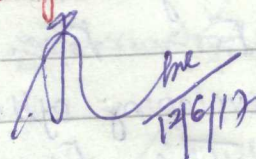
Sl. No.	Code	Subject Name	Type (L-T-P)	Credits
1.	MSBO1201	Genetics and Molecular Biology	3-1-0	04
2.	MSBO1202	Plant Physiology, Metabolism, and Biochemistry	3-1-0	04
3.	MSBO1203	Biostatistics and Instrumentation	3-1-0	04
4.	MSBO1204	Environmental Pollution and Management	3-1-0	04
5.	MSBO1205	Botany Laboratory-II	0-0-6	04
		Skill II	0-0-3	04
<b>Total</b>				<b>24</b>

#### 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.	MSRM15101	Introduction to Research	2-0-0	02
7.	MSBP2301	Scientific visit	0-0-3	02
<b>Total</b>				<b>24</b>

#### Semester-IV

Sl. 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	3-1-0	04
3.	MSBO2403	Microbial Technology & Physiology	3-1-0	04
4.	MSBP2401	Project/Dissertation	0-0-6	08
5.	MSBS2401	Seminar	0-0-3	04
<b>Total</b>				<b>24</b>

Sl.No	Name	Place	Signature
1	Dr. Padmak Jena	Revenshaw University, Cuttack Odisha	 12/6/17
2.	Kalpita Bhatta	CUTM, Bhubaneswar	Kalpita Bhatta



**CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT**

**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**

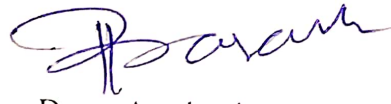
It was suggested that students will take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure-3)

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.

  
Dean SoAS

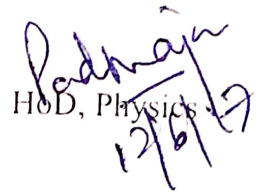
12.6.2017



Dean, Academics

Dean - Academic

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

  
HoD, Physics  
12/6/17

*Annexure-1*

**List of new courses added**

Sl. No	Course Title	Type(Skill Employability/Entrepreneurship higher studies/Industry)	Credit
<b>B.Sc. Physics</b>			
<b>SEMESTER III</b>			
1	Skill Enhancement Course-1	Skill	2
2	Mathematical Physics II	Skill	6
3	Electricity and Magnetism	Employability	6
4	Analog systems and Applications	Employability	6
5	Inter Disciplinary Subject	Employability	6
<b>SEMESTER IV</b>			
1	Skill Enhancement Course-2	Skill	2
2	Mathematical Physics III	Skill	6
3	Elements of Modern Physics	Employability & Skill	6
4	Digital systems and Applications	Employability & Skill	6
5	Inter Disciplinary Subject	Employability	6
<b>SEMESTER V</b>			
1	Quantum Mechanics & Applications	Employability & Skill	6
2	Solid State Physics	Employability & Skill	6
3	Discipline Specific Elective-1	Employability	6
4	Discipline Specific Elective-2	Employability	6
<b>SEMESTER VI</b>			
1	Electro-magnetic Theory	Skill	6
2	Statistical Mechanics	Skill	6
3	Discipline Specific Elective-3	Employability	6
4	Discipline Specific Elective-4	Employability	6
<b>Skill Enhancement Courses</b>			
1	Physics Workshop Skills	Skill	2
2	Computational Physics Skills	Skill	2
3	Electrical circuits and Network Skills	Skill	2
4	Basic Instrumentation Skills	Skill	2
5	Applied Optics	Skill	2
<b>Discipline Specific Elective</b>			
1	Experimental Techniques	Employability & Skill	6
2	Embedded systems- Introduction to Microcontroller	Employability & Skill	6
3	Physics of Devices and Communication	Employability & Skill	6
4	Advanced Mathematical Physics-I	Skill	6
5	Advanced Mathematical Physics-II	Employability	6
6	Classical Dynamics	Employability	6
7	Applied Dynamics	Employability	6
8	Communication System	Employability	6
9	Nuclear and Particle Physics	Employability	6
10	Astronomy and Astrophysics	Employability & Skill	6
11	Dissertation	Employability & Skill	6

**Annexure-2**

New (Modified) syllabus for M.Sc. Physics (For 2017-2019 batch)

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship/higher studies/Industry)	Credit
<b>Semester-I</b>			
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
<b>Semester-II</b>			
1	Statistical Physics	Employability	4
2	Solid State Physics	Employability	4
3	Electronics Devices and Circuits	Employability	4
4	Computational Physics	Skill	4
5	Computational Physics Lab	Skill	2
6	Electronics Devices Lab	Skill	2
7	Skill II	Skill	4
<b>Semester-III</b>			
1	Atomic and Molecular Physics	Employability	4
2	Nuclear and Particle Physics	Employability	4
3	Introduction to Research	Employability	2
4	Quantum Physics II	Employability	4
5	Seminar I	Skill	2
6	Special Paper I	Employability	4
7	Special Paper Lab I	Skill	4
<b>Semester-IV</b>			
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
<b>Stream-1: Electronics Special Paper</b>			
1	Microprocessor and Interfacing devices	Employability	4
2	Microprocessor lab	Skill	4
3	Electronics Communication System	Employability	4
4	Embedded System	Employability	4
5	Electronics simulation Lab	Skill	4
<b>Stream-2: Material Science Special Paper</b>			
1	Soft Matter Physics	Employability	4
2	Materials Lab I	Skill	4
3	Introduction to Bio- and Nano-materials	Employability	4



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4	Advanced Solid State Physics	Employability	4
5	Materials Lab II	Skill	4

**Annexure-3**

**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 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



Board of studies meeting held on 12/06/2017 11 SP

Members Present :-

1. Dr. Goutam Tripathy, Prof IOP, Bhubaneswar  
As external expert.
2. Dr. Padmaja Palraik, Asst prof, CUTM, Jatri
3. Dr. J. K. Meher, Prof, CUTM, Bolangir
4. Gyanendra Kumar Mishra, Lecturer, CUTM, Bolangir

Agenda of the meeting :-

1. For BSC programme → BSc CBCS courses are designed for 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> & 6<sup>th</sup> semesters.  
All core papers, elective papers are designed.

2. For MSc programme → ~~Plan~~ Syllabus structure has been modified for the 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> & 4<sup>th</sup> semester MSc Physics. Two specializations are to be given, Electronics and Material science. New papers are introduced keeping latest trends and different exams for students.

Deliberations

1. B.Sc. Syllabus finalised and approved.
2. M.Sc. Syllabus finalised for 2017 admitted batch finalised and approved.
3. M.Sc. syllabus for 2016 batch is slightly modified by ~~replacing~~ few papers.
4. Some changes has been suggested by the expert, which will be made in the detailed syllabus.
4. M.Phil in Physics is introduced from this year. Syllabus is finalized.

Padmaja  
12/6/17

G. Tripathy  
12/6/17

J. K. Meher  
12/6/17

Gyanendra Kumar Mishra  
12/06/2017



# CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

## 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-1*).
  - 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.
  - Courses in which revision was undertaken were Quantitative Techniques in Semester-I 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.
  - 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

**Dean**  
School of Management  
Centurion University, Odisha

Dean, Academics

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



List of new courses added in MBA

Sl. No	Course Title	Type (Skill/ Employability/ Entrepreneurship)	Credit
<b>Electives of Semester III and IV</b>			
1	Hospital Administration	Employability	4
2	Management Information Systems for Hospital	Employability & Skill development	2
3	Management of Out-Patient Department	Employability & Skill development	4
4	Risk and Disaster Management	Employability	4
5	Management of Quality	Employability	4
6	Legal and Ethical Issues for Hospitals	Employability	4
7	Health Insurance	Employability	2
8	Project Management in Health Care	Employability	4
9	Marketing of Hospital Services	Employability, Entrepreneurship	4
10	Clinical, Diagnostic & Therapeutic Services	Employability	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 Future of Media	Employability	4
16	Ideas, Brands and Business	Employability	2
17	Brand Planning and Consumer Insights	Employability, Entrepreneurship	4
18	Digital Strategies and Planning	Employability & Entrepreneurship	4
19	Mobile & E-Mail Marketing	Skill development	4
20	Search Engine Optimization	Skill development	2
21	Search Engine Marketing	Skill development	4
22	Technology of e-Commerce	Skill development	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)
I	Quantitative Techniques	1	Nature, Scope and limitations of statistics; uses of statistics to business and industrial activities, Statistical Data –primary and secondary data, Collection of data, Classification and tabulation of data, Diagrammatic and graphic representation of data. Questionnaire –its characteristics and drafting
II	Operation Research	1	Game Theory introduced

List of new courses added in MBA DM & ABM

Sl. No	Course Title	Type (Skill/ Employability/ Entrepreneurship)	Credit
<b>Electives of Semester I and II</b>			
1	Individual and Group Behaviour	Employability	2
2	Principles of Management	Skill development	2
3	ICT in Agriculture	Skill development	2
4	Logistics and Supply Chain Management	Employability	2
5	Agricultural Marketing	Employability	2
6	Economic Environment for Agriculture	Employability	4
7	Operation Research	Employability	2
8	Management Information Systems	Employability	2
<b>Semester-III of ABM</b>			
9	Study of an Organization	Employability, Entrepreneurship	6
10	Field Intervention/(Ag. Development Action)	Employability, Entrepreneurship	6
11	Sales and Distribution Management	Employability	2
12	Agricultural Extension Management	Employability	2
13	Corporate Social Responsibility	Employability	2
14	Disaster Management	Employability	2
15	Food Retail Management	Employability	2
16	Post-harvest and Processing Management	Employability	2
17	Insurance and Risk Management	Employability	2
<b>Semester-IV of ABM</b>			
18	Management Action Component-1	Employability	6
19	Management Action Component - 2	Employability	6
20	Live-stock Management	Employability, Entrepreneurship	2
21	Agri-export and WTO	Employability, Entrepreneurship	2
22	Total Quality Management	Employability	2
23	Contract Farming	Employability	2
24	Micro-finance and FI	Employability	2
25	Commodity Market and Trading	Employability, Entrepreneurship	2
26	Social Entrepreneurship	Skill development	4

List of new courses in B.Com (New Syllabus)

Sl. No	Course Title	Type (Skill/ Employability/ Entrepreneurship)	Credit
<b>Semester I</b>			
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
<b>Semester II</b>			
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
<b>Semester III</b>			
13	Financial Management	Employability & Entrepreneurship	6
14	Direct Tax	Employability	4
15	Indirect Taxes / GST	Employability & Entrepreneurship	4
16	Tally.ERP 9	Skill Development	6
17	Cost & Management Accounting	Employability & Entrepreneurship	4
18	Corporate Law	Employability & Entrepreneurship	4
<b>Semester IV</b>			
19	E-Commerce	Employability	4
20	Advanced Excel	Skill Development	4
21	Quantitative Techniques for Business	Employability	4
22	Entrepreneurship Development	Entrepreneurship	6
23	Auditing	Employability	4
24	Business Ethics & Governance	Employability, Entrepreneurship	4
<b>Semester V</b>			



25	Corporate Accounting	Employability & Entrepreneurship	4
26	Financial Market Operation	Employability	4
27	On Job Internship-I	Employability, Entrepreneurship & Skill development	12
<b>Semester VI</b>			
28	Global Finance	Employability	4
29	Banking Law & Practice	Employability	4
30	On Job Internship-II	Employability, Entrepreneurship & Skill development	12
<b>Total Credit</b>			<b>144</b>



**Skill Courses approved**

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**

	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  
SCHOOL OF MANAGEMENT

Board of Studies Meeting (Bhubaneswar Camp)

Date : 12th June 2017

Time : 10:30 AM

Venue : Bhubaneswar Campus.

Members Present

- 1) Dr. Haribandhu Panda, VC, WTM
- 2) Dr. Smita Mishra Panda, Director Research
- 3) Dr. Anita Patra, Registrar, WTM
- 4) Dr. Ashok Kumar Mohanty, Expert
- 5) Mr. Mathew Anthony, Expert, Instructure
- 6) Mr. Sukanta Parida, GM, ICA University Alliance
- 7) Dr. Prasanta Kumar Mohanty, Dean, Academic
- 8) Prof. Rashmi Ranjan Parida, PGP Coordinator, SOM
- 9) Prof. Umakanta Nayak, Faculty, SOM
- 10) Prof. Ansuman Jena, PhD, Faculty, SOM
- 11) Prof. Bibhuranidhi Das, PhD, Faculty, SOM
- 12) Prof. Shw. Sankar Das, Faculty, SOM
- 13) Prof. K.V.D Prakash, Dean, SOM

- \* BBA and B. COM (ICA): The whole course was discussed and was approved by all members.
- \* MBA (Data Analysts): 5 subjects were added to the existing course structure, no changes were proposed for any existing courses.
- \* MBA (Hospital Management): New electives on Hospital management was introduced and was approved. The meeting came to an end after extending a vote of thanks to all present members.

Signatures of Members Present.

① Saranta 12/06/17      Ansumam Sena 12.06.2017

Manoj 12/06/17      Shri Sankar Das 12/6/17

Arjun      [Signature] 12/6/17

Praveen 12/6      [Signature] 12/6/17

Anika Mishra 12 June 17      [Signature] 12/6/17

[Signature] 12/6/17      [Signature] 12/6/17



## CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

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.





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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 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> semester of BSc MLT and BSc RIT were approved and syllabus for 3<sup>rd</sup> and 4<sup>th</sup> 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.

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

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

Dean, SoPAHS  
Prof. Sunil Kumar Jha  
DEAN

School of Paramedics & Allied Health Sciences  
Centurion University of Technology & Management  
Bhubaneswar, Odisha-752050

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





List of new courses added

Sl. No	Course Title	Type (Skill/ Employability/ Entrepreneurship)	Credit
	<b>BSc RIT</b>		
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
11	Basic Computer And Information Science	Skill	4
12	Hospital Posting-Medical Imaging Lab III	Entrepreneurship	4
13	Basic Of X-Ray and Digital X-Ray Imaging	Employability	4
14	Computerized Tomography (CT Scanning) Method and Procedure	Employability	4
15	Basic Of Magnetic Resonance Imaging	Employability	4
16	Orientation In Clinical Sciences Course Contents	Employability	4
17	Medical Imaging Lab IV	Entrepreneurship	4
18	Medical Law and Ethics	Skill	4
19	Project	Skill	12
20	Internship	Skill	12
	<b>BSc MLT</b>		
1	Immunology	Employability	4
2	Applied Hematology	Employability	4
3	Molecular Biology	Employability	4
4	Basic Histology	Entrepreneurship	4
5	Community Practice Laboratory- 2	Skill	2
6	Immunology, Histology Lab	Skill	4

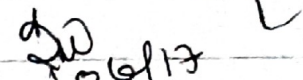
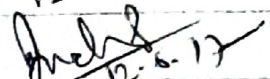
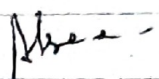
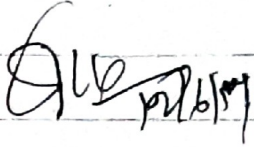


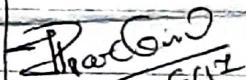
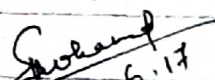
7	Parasitology	Employability	4
8	Analytical Biochemistry	Entrepreneurship	2
9	Advance Hematology	Entrepreneurship	4
10	Immunopathology	Employability	4
11	Human Values & Professional Ethics	Skill	4
12	Basic Computers and Information Science	Skill	4
13	Biochemistry lab	Entrepreneurship	4
14	Transfusion Medicine	Employability	4
15	Medical Laboratory Management	Entrepreneurship	4
16	Immunopathology	Employability	4
17	Introduction To Quality and Patient Safety	Employability	4
18	Medical Law and Ethics	Skill	4
19	Mycology & Virology	Employability	4
20	Mycology & Virology Lab	Skill	4
21	Project	Skill	12
22	Internship	Skill	12
<b>MSc MLT</b>			
1	Immunology, Bacterial Serology & Parasitology	Employability	4
2	Clinical Hematology	Entrepreneurship	4
3	Biochemistry	Employability	4
4	Histology	Entrepreneurship	4
5	Research Methodology	Skill	4
6	Communicative Practice Laboratory-II	Skill	2
7	Immunology, Biochemistry & Histopathology Lab	Employability	4
8	Project	Skill	12
9	Internship	Skill	12
<b>MSc CMB</b>			
1	Immunology & Virology	Employability	4
2	Diagnostic Bacteriology	Entrepreneurship	4
3	Biochemistry	Employability	4
4	Histology	Entrepreneurship	4



5	<i>Research Methodology</i>	<i>Skill</i>	4
6	<i>Communicative Practice Laboratory-II</i>	<i>Skill</i>	2
7	<i>Immunology, Histopathology &amp; Biochemistry Lab</i>	<i>Entrepreneurship</i>	4
8	<i>Project</i>	<i>Skill</i>	12
9	<i>Internship</i>	<i>Skill</i>	12
	<b>BSc CMB</b>		
1	<i>Introductory Cell Biology</i>	<i>Employability</i>	4
2	<i>Human Anatomy &amp; Physiology</i>	<i>Employability</i>	4
3	<i>Basic Haematology</i>	<i>Entrepreneurship</i>	4
4	<i>Instrumentation &amp; Techniques</i>	<i>Entrepreneurship</i>	4
5	<i>Human Anatomy, Physiology &amp; Haematology Practical</i>	<i>Entrepreneurship</i>	4
6	<i>Environmental Science</i>	<i>Skill</i>	4
7	<i>Foundations of English Communication</i>	<i>Skill</i>	2
8	<i>General Microbiology</i>	<i>Employability</i>	4
9	<i>Clinical Biochemistry</i>	<i>Entrepreneurship</i>	4
10	<i>Clinical Pathology &amp; Diagnosis</i>	<i>Entrepreneurship</i>	4
11	<i>Clinical Pathology, Biochemistry &amp; Microbiology Practical</i>	<i>Entrepreneurship</i>	4
12	<i>Immunology</i>	<i>Employability</i>	4
13	<i>Systemic Bacteriology</i>	<i>Employability</i>	4
14	<i>Molecular Biology</i>	<i>Employability</i>	4
15	<i>Systemic Virology &amp; Mycology</i>	<i>Employability</i>	4
16	<i>Communicative Practice Laboratory- II</i>	<i>Skill</i>	2
17	<i>Bacteriology, Virology &amp; Mycology Practical</i>	<i>Skill</i>	4
18	<i>Public Health Microbiology</i>	<i>Employability</i>	4



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

Slno.	NAME	PLACE	SIGNATURE
1.	Dr. P. C. Mahapatra	CUTM, BBSR	 12/06/17
2.	Dr. Bachaspati Dash	CUTM, BBSR	 12.6.17
3.	Dr. Ashish K. Sen	CUTM, BBSR	
4.	Suniti K. Jha	CUTM, BBSR	
5.	Dr. Debashish Sahoo	CUTM, BBSR	
6.	Vivek K. Sinha	CUTM, BBSR	 12/6/17
7.	<del>Prियान्का Parbati</del>	CUTM, BBSR	<del> 12/06/17</del>
8.	Sanskita Mohapatra	CUTM, BBSR	 12.6.17



## CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

### 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	B	8	Good
60.00-69.99	C	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 syllabus 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 8<sup>th</sup> semester.

**Any Other Points:** Extension of Pharmacy courses at Balangir and Rayagada campus.

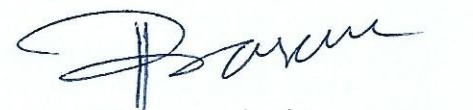
The Board of Studies after due deliberation approved to impart Pharmacy courses at its constituent campuses such as Balangir and Rayagada camps.

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

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



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**Additional Documents**

**Appendix 1**

**List of new courses:**

Sl. No	Course Title	Type(Skill/Employability /Entrepreneurship)	Credit
1	Human Anatomy and Physiology I-Theory	Skill-Employability	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
10	Pharmaceutics I – Practical	Skill-Employability	2
11	Pharmaceutical Inorganic Chemistry – Practical	Employability	2
12	Communication skills – Practical*	Skill	1
13	Remedial Biology – Practical*	Employability	1
14	Human Anatomy and Physiology II – Theory	Skill-Employability	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
23	Computer Applications in Pharmacy – Practical*	Skill-Employability	1
24	Pharmaceutical Organic Chemistry II – Theory	Skill-Employability	4
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



33	Medicinal Chemistry I – Theory	<b>Employability</b>	<b>4</b>
34	Physical Pharmaceutics II – Theory	<b>Skill –Employability</b>	<b>4</b>
35	Pharmacology I – Theory	<b>Skill –Employability</b>	<b>4</b>
36	Pharmacognosy and Phytochemistry I– Theory	<b>Skill</b>	<b>4</b>
37	Medicinal Chemistry I – Practical	<b>Employability</b>	<b>2</b>
38	Physical Pharmaceutics II – Practical	<b>Skill –Employability</b>	<b>2</b>
39	Pharmacology I – Practical	<b>Skill –Employability</b>	<b>2</b>
40	Pharmacognosy and Phytochemistry I – Practical	<b>Skill –Employability</b>	<b>2</b>
41	Medicinal Chemistry II – Theory	<b>Employability</b>	<b>4</b>
42	Industrial Pharmacy– I Theory	<b>Skill –Employability</b>	<b>4</b>
43	Pharmacology II – Theory	<b>Skill –Employability</b>	<b>4</b>
44	Pharmacognosy and Phytochemistry II– Theory	<b>Skill –Employability</b>	<b>4</b>
45	Pharmaceutical Jurisprudence – Theory	<b>Employability</b>	<b>4</b>
46	Industrial Pharmacy I – Practical	<b>Skill -Employability- Entrepreneurship</b>	<b>2</b>
47	Pharmacology II – Practical	<b>Skill –Employability</b>	<b>2</b>
48	Pharmacognosy and Phytochemistry II – Practical	<b>Skill –Employability</b>	<b>2</b>
49	Medicinal Chemistry III – Theory	<b>Employability</b>	<b>4</b>
50	Pharmacology III – Theory	<b>Skill –Employability</b>	<b>4</b>
51	Herbal Drug Technology – Theory	<b>Skill –Employability</b>	<b>4</b>
52	Biopharmaceutics and Pharmacokinetics – Theory	<b>Skill –Employability</b>	<b>4</b>
53	Pharmaceutical Biotechnology – Theory	<b>Employability</b>	<b>4</b>
54	Quality Assurance –Theory	<b>Skill –Employability</b>	<b>4</b>
55	Medicinal chemistry III – Practical	<b>Employability</b>	<b>2</b>
56	Pharmacology III – Practical	<b>Skill –Employability</b>	<b>2</b>
57	Herbal Drug Technology – Practical	<b>Skill -Employability- Entrepreneurship</b>	<b>2</b>
58	Instrumental Methods of Analysis – Theory	<b>Skill –Employability</b>	<b>4</b>
59	Industrial Pharmacy –II Theory	<b>Skill –Employability</b>	<b>4</b>
60	Pharmacy Practice – Theory	<b>Skill –Employability</b>	<b>4</b>
61	Novel Drug Delivery System – Theory	<b>Skill –Employability</b>	<b>4</b>
62	Instrumental Methods of Analysis – Practical	<b>Skill –Employability</b>	<b>2</b>
63	Practice School*	<b>Employability</b>	<b>6</b>
64	Biostatistics and Research Methodology	<b>Skill</b>	<b>4</b>
65	Social and Preventive Pharmacy	<b>Skill –Employability</b>	<b>4</b>
66	Pharmaceutical Marketing ( ELECTIVE)	<b>Skill -Employability- Entrepreneurship</b>	<b>4</b>
67	Pharmaceutical Regulatory Science ( ELECTIVE)	<b>Skill -Employability- Entrepreneurship</b>	<b>4</b>
68	Project Work	<b>Skill -Employability- Entrepreneurship</b>	<b>6</b>



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## Appendix 2

### Elective subjects in B.Pharm:

Course Code	Name of the Course	No. of hours	Tutorial	Credit Points
BPHT4203	Pharma Marketing Management	3+3=6	1+1=2	4+4=8
BPHT4204	Pharmaceutical Regulatory Science			
BPHT4205	Pharmacovigilance			
BPHT4206	Quality Control and Standardizations of Herbals			
BPHT4207	Computer Aided Drug Design			
BPHT4208	Cell and Molecular Biology			
BPHT4209	Cosmetic Science			
BPHL4201	Experimental Pharmacology			
BPHL4202	Advanced Instrumentation Techniques			
BPHT4212	Dietary Supplements and Nutraceutical			



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### Appendix 3

#### 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





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#### Appendix 4

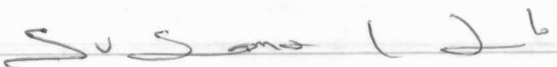
#### Value Added courses offered by university

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

- \* The MSc forensic science course is going to be launched from the academic year 2017-18.
- \* The faculty members of GFSU have visited the campus and ~~agreed~~ discussed the requirement.
- \* The syllabus, course curriculum credit point, Grade ~~and~~ as per CBCS system are discussed and finalized.

### Members Present:

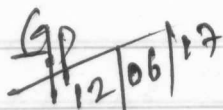
External member

  
12.6.17


Dr. S.K. Sahu  
Reader & Head, UDPS.

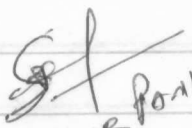
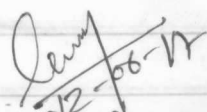
Utkal Univ.

Internal member

  
12/06/17

Dr. Gurudutta Pattnaik  
Principal, SPLS.

  
12.06.17  
Dr. A. Behera

  
Sisir Panigrahi  
  
12-06-17  
C.C. Behera