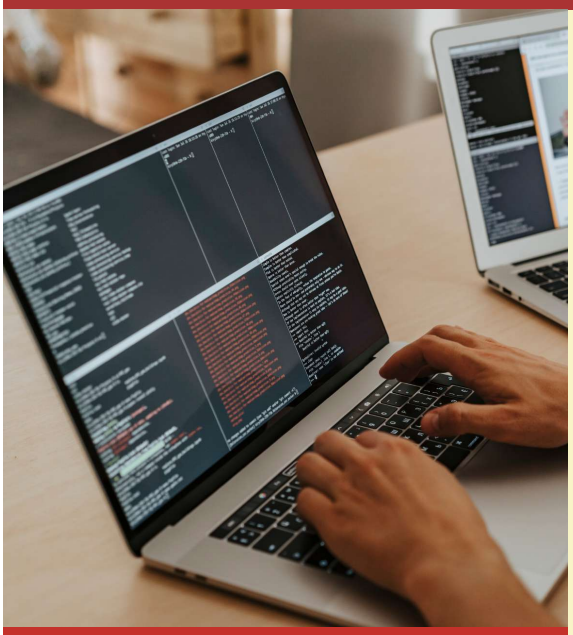
Ethical Hacking

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2021-22

Centurion University of Technology and Management, Odisha



- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

To find loopholes in the security system and to report these threats to their owners and provide necessary solutions to protect the data and networks

Learning Outcomes

Gaining good technical and analytical skills with in-depth knowledge of various computer software and programmes

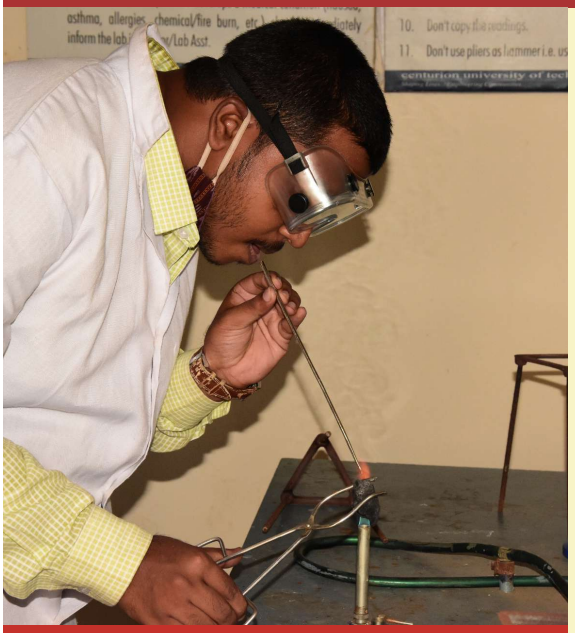
Course Syllabus

Module	Contents	Duration
1	Computer hardware and basics	6 hrs
2	Operating systems basics and Windows/linux(kali,ubuntu,etc)	6 hrs
3	Computer Networking and security	6 hrs
4	Programming(Python/java/c)	6 hrs
5	Web technology and Basics of servers	6 hrs
	Total	**30 hrs**

Clinical Practice

Year: 2021-22

Centurion University of Technology and Management, Odisha



- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To understand the lab errors.
- To understand the strategy for the acceptance and rejection of samples.
- To learn about importance of quality control.

Learning Outcomes

- To learn about role of Automation in clinical Biochemistry laboratory.
- To understand the various analytical procedures for routine biochemical parameters.
- Reporting and interpretation of results.

Course Syllabus

Module	Contents	Duration
1	Introduction	3 hrs
2	Lap & Analytical errors	4 hrs
3	Automation in Clinical Biochemistry Laboratory	4 hrs
4	ELISA Technique, Analysis of Routine Biochemical Parameters	4 hrs
5	Maintenance of the Instruments	3 hrs
6	ABG: Introduction & Interpretation	4 hrs
7	Interference of Drugs in Biochemical Results	4 hrs
8	Post Analytical Errors and Reporting of Results	4 hrs
	Total	**30 hrs**

Financial Literacy

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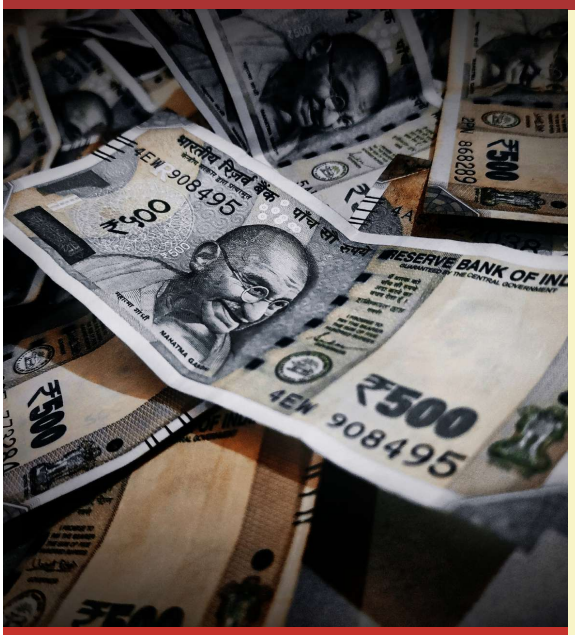
Shaping Lives...
Empowering Communities...

Year: 2021-22

Centurion University of Technology and Management, Odisha



- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To help them manage their money through budgeting
- To gain knowledge about various borrowing methods

Learning Outcomes

- Students will demonstrate knowledge of money management within three main areas: responsible borrowing, budgeting, and credit.

Course Syllabus

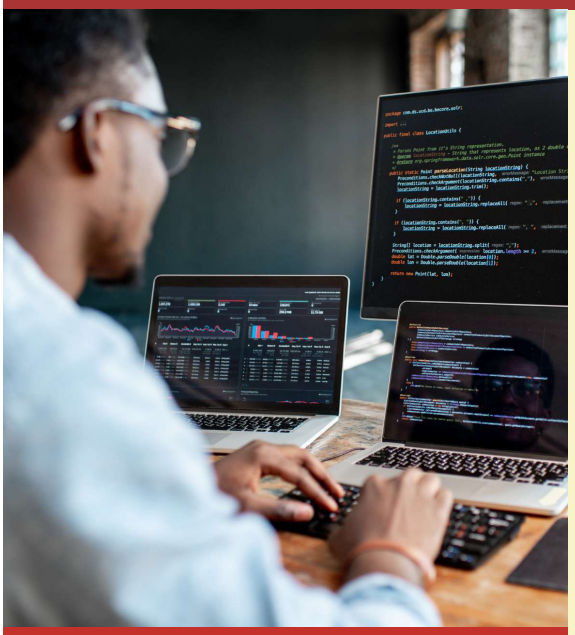
Module	Contents	Duration
1	Developing Budget	8 hrs
2	Responsible Borrowing	7 hrs
3	Money Management	8 hrs
4	Saving for Emergencies	7 hrs
	Total	**30 hrs**

MATLAB

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2021-22

Centurion University of Technology and Management, Odisha



- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To Impart the Knowledge to the students with MATLAB software.
- To provide a working introduction to the MATLAB technical computing environment.
- To introduce students the use of a high-level programming language, MATLAB

Learning Outcomes

- To learn features of MATLAB as a programming tool.
- To promote new teaching model that will help to develop programming skills and technique to solve mathematical problems.
- To understand MATLAB graphic feature and its applications.
- To use MATLAB as a simulation tool.

Course Syllabus

Module	Contents	Duration
1	Introduction	6 hrs
2	MATLAB Functions	6 hrs
3	Graphics with MATLAB	6 hrs
4	Programming with MATLAB	6 hrs
5	Mathematical Computing with MATLAB	6 hrs
	Total	**30 hrs**

MS Excel Basics

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2021-22

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To build a strong understanding on the Basics of Microsoft Excel

Learning Outcomes

- Ability to design a personal budget file using Excel

Course Syllabus

Module	Contents	Duration
1	Introduction to Microsoft Excel 101	5 hrs
2	Excel Basic Formulas	5 hrs
3	Excel Data Validation	5 hrs
4	Excel Formulas, Functions and Logical Functions	5 hrs
5	Creating Charts in Excel	5 hrs
6	Making Budget in Excel	5 hrs
	Total	**30 hrs**

Research Methodology and IPR

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2021-22

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To equip students with a basic understanding of the underlying principles of quantitative and qualitative research methods.
- Provide students with in-depth training on the conduct and management of research from inception to completion using a wide range of techniques.

Learning Outcomes

- Enable students to acquire expertise in the use and application of the methods of data collection and analysis.
- Provide learning opportunities to critically evaluate research methodology and findings.

Course Syllabus

Module	Contents	Duration
1	Research Problem and Scope for Solution	6 hrs
2	Format	6 hrs
3	Process and Development	6 hrs
4	Patent Right	6 hrs
5	New Development in IPR	6 hrs
	Total	**30 hrs**

Step for Career Plan

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2021-22

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- Students will engage in a self-assessment process in which they will identify their own unique interests, abilities, values, strengths, challenges and technology needs

Learning Outcomes

- Students will create, modify, edit and perfect a resume that is representative of their skills, abilities, and experience. They will also demonstrate the acquisition of appropriate interview and networking skills.
- Students will develop an awareness of cultural norms and differences by identifying differences in cultural work styles and work ethics.

Course Syllabus

Module	Contents	Duration
1	Introduction	7 hrs
2	Interest Assessment	8 hrs
3	Assessment of Values and Abilities	8 hrs
4	Job Search	7 hrs
	Total	**30 hrs**

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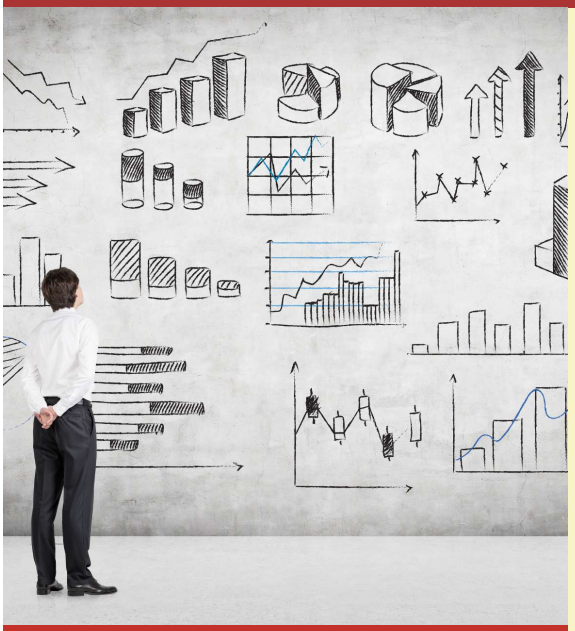
Year: 2021-22

Centurion University of Technology and Management, Odisha



- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To learn to identify datasets to connect to, explore, analyze, filter and structure your data to create your desired visualizations

Learning Outcomes

- Identify datasets to connect to, explore, analyze, filter and structure your data to create your desired visualizations

Course Syllabus

Module	Contents	Duration
1	Data Warehousing Concepts	6 hrs
2	Business Intelligence Concepts	6 hrs
3	Tableau Desktop	6 hrs
4	Tableau Server	6hrs
5	Tableau Advanced	6 hrs
6	Tableau Visual Analytics Training	5 hrs
	Total	**30 hrs**

Technical Writing

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2020-21

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To provide knowledge on technical writing by studying different types of professional writing samples.
- To develop professional work habits among students

Learning Outcomes

- To be able to write a well thought out piece
- To be able to display professionalism in their work

Course Syllabus

Module	Contents	Duration
1	Audience Analysis	4 hrs
2	Internal Communication: Writing Memos and Emails	5 hrs
3	External Communication: Formal Letters	4 hrs
4	Using Visuals to Convey Information	4 hrs
5	Process Documentation	5 hrs
6	Writing Proposals	4 hrs
7	Communicating on the Internet	4 hrs
	Total	**30 hrs**

Waste to Wealth

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2021-22

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- Collection of solid waste
- Segregation of solid waste
- Reuse of solid waste

Learning Outcomes

- To use effectively solid wastes
- To safe disposal of solid waste

Course Syllabus

Module	Contents	Duration
1	Collection of Solid Waste	10 hrs
2	Re-use of Solid Waste	10 hrs
3	Repair of Solid Waste	10 hrs
	Total	**30 hrs**

Web Development

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2021-22

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To introduce the 'World Wide Web' to the learners.
- To impart knowledge in 'Developing Content' for websites.
- To develop technical writing skill of the learners.
- To impart knowledge of the 'Website'.

Learning Outcomes

After completion of the course students will be able to

- understand the technology and content of the world wide web.
- develop contents on web copy writing, digital news writing for various type of web sites.
- write E-books, Blogs, E-Commerce content.
- develop perception of branding, promotion and distribution by visualization by successful delivery through the web content.

Course Syllabus

Module	Contents	Duration
1	Introduction	6 hrs
2	Web Copy Writing, Digital News Writing, Content Creation for different types of websites	6 hrs
3	Website Concepts, Theme, Colour, Branding	6 hrs
4	Developing E-Books, Blogs, E-Commerce Content	6 hrs
5	Website Types, Features, Characteristics,Introduction to Website Coding	6 hrs
	Total	**30 hrs**

Yoga and Meditation

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2021-22

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To spread the message of complete well-being i.e. Physical, Mental, Social and Spiritual.
- To encourage students towards healthy lifestyle.
- To record student's health transformation for research project.

Learning Outcomes

- To overcome many simple disorders
- To perform some major Yoga techniques
- To develop confidence and clarity about life.
- To guide a path of simplicity, healthy & harmony

Course Syllabus

Module	Contents	Duration
1	Theory	4 hrs
2	*Kriya*	4 hrs
3	*Sukshma Vyayama & Stula Vyayama*	5 hrs
4	*Surya Namaskar*	4 hrs
5	20 useful Culturative Asanas & Relaxative & Meditative Asanas	5 hrs
6	*Pranayama with Bandhas & Mudras)*	4 hrs
7	Yoga Nidra & Meditation	4 hrs
	Total	**30 hrs**

Health and Lifestyle

Year: 2021-22

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To provide students a general concept of Health & life style.
- To provide knowledge and understanding regarding health and nutrition.
- To familiarize the students regarding the importance of value based life through Yoga, Meditation and mindfulness.
- To promote an understanding of the value of sports for life skill development.

Learning Outcomes

- Gain a general concept of Health and Lifestyle
- Gain knowledge and understanding regarding health and nutrition
- understand the importance of value based life through Yoga, Meditation and mindfulness

Course Syllabus

Module	Contents	Duration
1	·Concept of true Health & Positive Life Style, It's Meaning, Definition, Aims and Objectives ·Need and importance of Life Skill Education ·Yoga Education & its Relevance for complete well-being ·Vedic education for modern problems	10 hrs
2	·Essence of regulative principles, Discipline life, Dinascarya (Daily routine) Role of Nature for positive lifestyle, benefits of Yogic Exercises on Body systems - Circulatory, Respiratory, Endocrine, Skeletal and Muscular etc	6 hrs
3	·Nutrition and Health Concept of Food and Balanced Diet ·Need of adequate Vitamins, concept of Malnutrition, Cause of Diseases ·Line of treatment for Obesity, Spinal disorders, Mental stress & anxiety	6 hrs
4	·Clinical Significance and management of the diseases like insomnia, hypertension, diabetes, thyroid etc. by Yoga and Meditation. ·Practice of Shatkarma, Asana, Pranayama, Yoga Nidra & Meditation ·Various Yoga systems like-Karma Yoga, Bhakti Yoga, Jnana Yoga and Astanga Yoga towards Character Building and World Peace	8 hrs
	Total	**30 hrs**

Life Skill & Moral Value Education

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2021-22

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To provide students a wide vision of human values.
- To provide brief understanding of discipline life & its benefits.
- Enable students for accepting value-based life through Yoga & Meditation.
- To promote Indian Vedic culture & nurture ethical life.

Learning Outcomes

- Develop a vision for human Values
- Students will be able to apply new ways of life in their own life and influence those around them.

Course Syllabus

Module	Contents	Duration
1	·Objective of Life, It's goal, Foundation of human Need and importance of Life Skill Education ·Necessity of having a Mentor, faith in scriptures and moral education ·Concept of Mita-ahara, Abhyasa & Vairagya, Sadhana Chatushtaya, Dharma & Adharma, building a noble character, control evil habits ·Conserving energy, Mind & it's function, Concept of Panchakosha, Triguna	10 hrs
2	·Preparation for ethical life, need of Purification (both external & Internal), Importance of YAMA & NIYAMA, cultivate Virtues, development of Patience, Chitta-suddhi, Tratak, application of Karma & Bhakti Yoga for mind control. ·Practical use of Yoga, Characteristics of a true Yogi, Misconceptions.	10 hrs
3	·Benefits of Asana, Pranayama, Yoga Nidra & Meditation ·Learning the benefits of Padmasana, Sidhasana, Sirsasana, Sarvangasana, Paschimottanasana, Bhastrika pranayama, Mahabandha, Nadisodhana Pranayama, Bhramari Pranayama, Japa & mindful Meditation ·Yogic solutions for Mental stress & peaceful life	10 hrs
	Total	**30 hrs**

ANSYS

Year: 2021-22

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

They will be able to model simple and complex composite model in ANSYS

Learning Outcomes

- They will be able to model simple and complex composite model in ANSYS
- They will be able to work with ACP tools
- They will be able to work with different ANSYS analysis tools in workbench
- They will learn how to work with ANSYS workbench

Course Syllabus

Module	Contents	Duration
1	Introduction	3 hrs
2	Selection Logic, Solid Modelling, Meshing	4 hrs
3	Material Properties, Boundary Conditions, Solvers	4 hrs
4	Post-processing	4 hrs
5	Introduction to Non-Linear Analysis	3 hrs
6	Sample: Structural, Thermal, Modal Analysis	4 hrs
7	Tips & Tricks	4 hrs
8	ANSYS Workbench	4 hrs
	Total	**30 hrs**

Video Making for YouTubers

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2021-22

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

Is to help the students to find their niche and create the necessary content in a visually appealing manner for the YouTube platform.

Learning Outcomes

Students will be able to set up, record, edit and upload their videos on YouTube and also optimize it for the platform.

Course Syllabus

Module	Contents	Duration
1	Create a YouTube video strategy	3 hrs
2	Make sure your video is found of YouTude	3 hrs
3	Find YouTube ideas and topics	3 hrs
4	Understand YouTube equipment for beginners	3 hrs
5	Learn the first YouTube video	3 hrs
6	Set up your video recording	3 hrs
7	Record your desktop	3 hrs
8	Edit your video	3 hrs
9	Upload your video on YouTube	3 hrs
10	Optimize your video for YouTube	3 hrs
	Total	**30 hrs**

Natural Resource Management

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2020-21

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To understand general principles of natural resource management
- To apply soil and water conservation principles and practices on natural resource management
- To assess the challenges between agricultural productivity and environmental protection

Learning Outcomes

- Learn how to use critical thinking skills to convey how society perceives what natural resource management is
- Learn how we actually manage or conserve our natural resources, how these activities impact our natural resources
- Learn how to improve on these applications, and how to network with pertinent organizations and individuals to collaborate on these ideas.

Course Syllabus

Module	Contents	Duration
1	Introduction	6 hrs
2	Soil and Soil Conservation	6 hrs
3	Forest Ecology, Wildlife Management & Species Extinction	6 hrs
4	Water Ecosystem & Water Quality	6 hrs
5	Climate Change Effects on Natural Resources	6 hrs
	Total	**30 hrs**

Research Methodology and IPR

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2020-21

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To equip students with a basic understanding of the underlying principles of quantitative and qualitative research methods.
- Provide students with in-depth training on the conduct and management of research from inception to completion using a wide range of techniques.

Learning Outcomes

- Enable students to acquire expertise in the use and application of the methods of data collection and analysis.
- Provide learning opportunities to critically evaluate research methodology and findings.

Course Syllabus

Module	Contents	Duration
1	Research Problem and Scope for Solution	6 hrs
2	Format	6 hrs
3	Process and Development	6 hrs
4	Patent Right	6 hrs
5	New Development in IPR	6 hrs
	Total	**30 hrs**

Urban kitchen gardens using Hydroponics

Year: 2020-21

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To provide practical knowledge and to develop a sound understanding of hydroponics technology
- To impart knowledge on raising crops in hydroponics sustainably

Learning Outcomes

- Gaining knowledge on hydroponics technology
- Successful raising of crops under hydroponics system

Course Syllabus

Module	Contents	Duration
1	Pre-requisites for hydroponics technology	8 hrs
2	Sowing and crop establishment in hydroponics	11 hrs
3	Crop management and harvesting in hydroponics system	11 hrs
	Total	**30 hrs**

Introduction to Python

Centurion University
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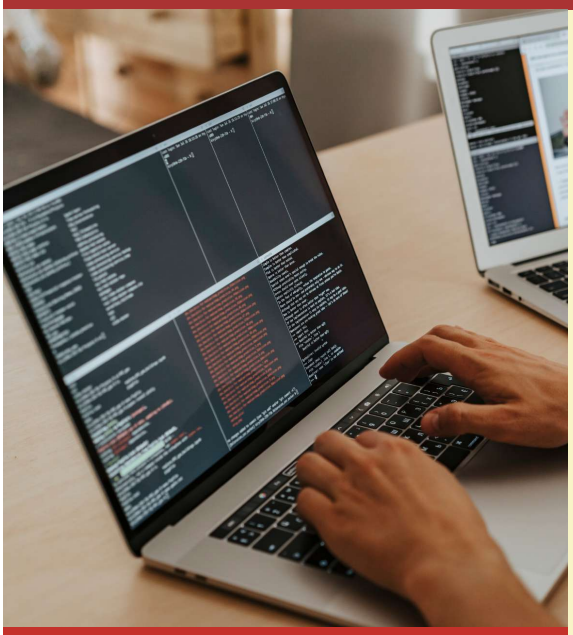
Year: 2020-21

Centurion University of Technology and Management, Odisha



- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To acquire programming skills in core Python.
- To acquire Object Oriented Skills in Python
- To develop the skill of designing Graphical user Interfaces in Python
- To develop the ability to write database applications in Python

Learning Outcomes

- Have a basic understanding of Python
- Write basic programs using Python

Course Syllabus

Module	Contents	Duration
1	Introduction to Python and Computer Programming	5 hrs
2	Data Types, Variables, Basic Input-Output Operations, Basic Operators	5 hrs
3	Boolean Values, Conditional Execution, Loops, Lists and List Processing, Logical and Bitwise Operations	5 hrs
4	Functions, Tuples, Dictionaries, and Data Processing	5 hrs
5	Modules, Packages, String and List Methods, and Exceptions	5 hrs
6	The Object-Oriented Approach: Classes, Methods, Objects, and the Standard Objective Features; Exception Handling, and Working with Files	5 hrs
	Total	**30 hrs**

MATLAB

Centurion University
Shaping Lives...
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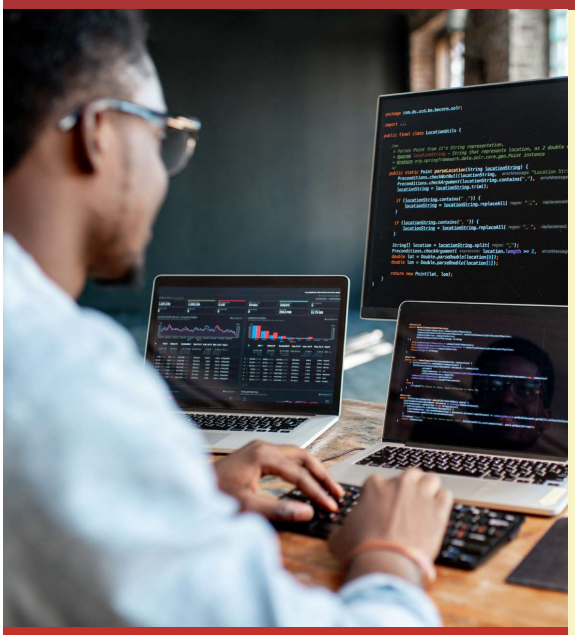
Year: 2020-21

Centurion University of Technology and Management, Odisha



- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To Impart the Knowledge to the students with MATLAB software.
- To provide a working introduction to the MATLAB technical computing environment.
- To introduce students the use of a high-level programming language, MATLAB

Learning Outcomes

- To learn features of MATLAB as a programming tool.
- To promote new teaching model that will help to develop programming skills and technique to solve mathematical problems.
- To understand MATLAB graphic feature and its applications.
- To use MATLAB as a simulation tool.

Course Syllabus

Module	Contents	Duration
1	Introduction	6 hrs
2	MATLAB Functions	6 hrs
3	Graphics with MATLAB	6 hrs
4	Programming with MATLAB	6hrs
5	Mathematical Computing with MATLAB	6 hrs
	Total	**30 hrs**

Waste to Wealth

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2020-21

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audlt (Workshop)
- Duration: 30 Hours

Course Objectives

- Collection of solid waste
- Segregation of solid waste
- Reuse of solid waste

Learning Outcomes

- To use effectively solid wastes
- To safe disposal of solid waste

Course Syllabus

Module	Contents	Duration
1	Collection of Solid Waste	10 hrs
2	Re-use of Solid Waste	10 hrs
3	Repair of Solid Waste	10 hrs
	Total	**30 hrs**

Technical Writing

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2020-21

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To provide knowledge on technical writing by studying different types of professional writing samples.
- To develop professional work habits among students

Learning Outcomes

- To be able to write a well thought out piece
- To be able to display professionalism in their work

Course Syllabus

Module	Contents	Duration
1	Audience Analysis	4 hrs
2	Internal Communication: Writing Memos and Emails	5 hrs
3	External Communication: Formal Letters	4 hrs
4	Using Visuals to Convey Information	4 hrs
5	Process Documentation	5 hrs
6	Writing Proposals	4 hrs
7	Communicating on the Internet	4 hrs
	Total	**30 hrs**

Disaster Management

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2020-21

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To provide students an exposure to disasters, their significance, types & Comprehensive understanding on the concurrence of Disasters and its management.
- To ensure that students begin to understand the relationship between vulnerability, disasters, disaster prevention, risk reduction and the basic understanding of the research methodology for risk reduction measures.
- Equipped with knowledge, concepts, and principles, skills pertaining to Planning, Organizing, Decision-making and Problem solving methods for Disaster Management.

Learning Outcomes

- Students having acquired on the basic knowledge and information on DRR and CC are well prepared to respond to such hazards

Course Syllabus

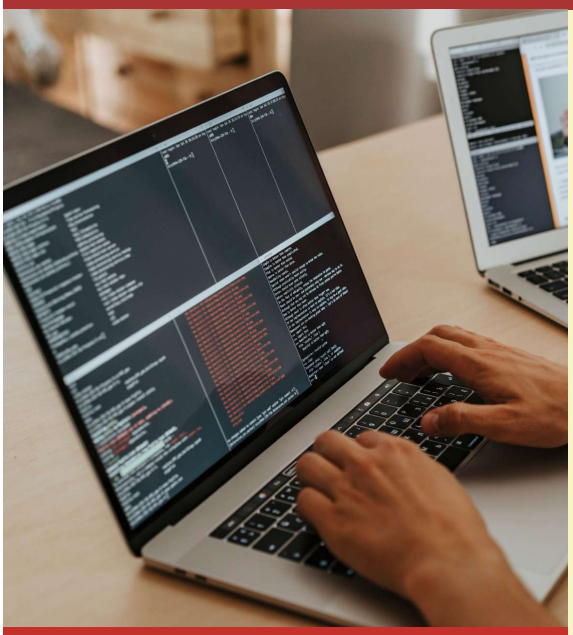
Module	Contents	Duration
1	Introduction to Disaster Management	6 hrs
2	Types & Classification of Disasters	8 hrs
3	Disaster Risk Reduction and Planning Management	9 hrs
4	Development vs Sustainable Development	7 hrs
	Total	**30 hrs**

Ethical Hacking

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2019-20

Centurion University of Technology and Management, Odisha



- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

To find loopholes in the security system and to report these threats to their owners and provide necessary solutions to protect the data and networks

Learning Outcomes

Gaining good technical and analytical skills with in-depth knowledge of various computer software and programmes

Course Syllabus

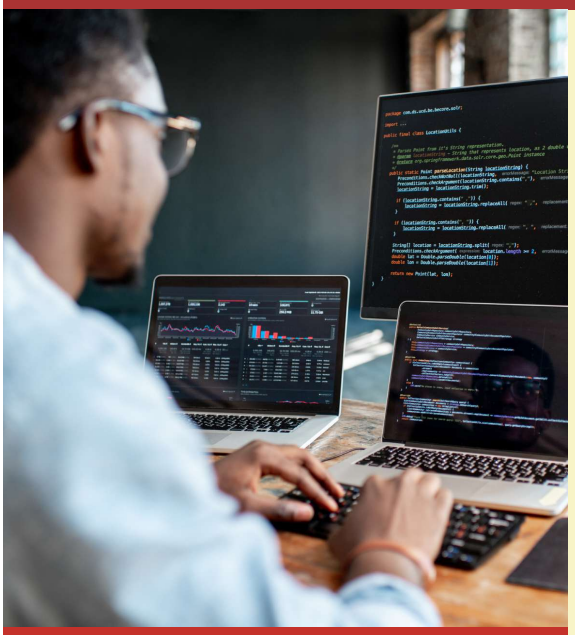
Module	Contents	Duration
1	Computer hardware and basics	6 hrs
2	Operating systems basics and Windows/linux(kali,ubuntu,etc)	6 hrs
3	Computer Networking and security	6 hrs
4	Programming(Python/java/c)	6 hrs
5	Web technology and Basics of servers	6 hrs
	Total	**30 hrs**

Web Development

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2020-21

Centurion University of Technology and Management, Odisha



- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To introduce the 'World Wide Web' to the learners.
- To impart knowledge in 'Developing Content' for websites.
- To develop technical writing skill of the learners.
- To impart knowledge of the 'Website'.

Learning Outcomes

After completion of the course students will be able to

- understand the technology and content of the world wide web.
- develop contents on web copy writing, digital news writing for various type of web sites.
- write E-books, Blogs, E-Commerce content.
- develop perception of branding, promotion and distribution by visualization by successful delivery through the web content.

Course Syllabus

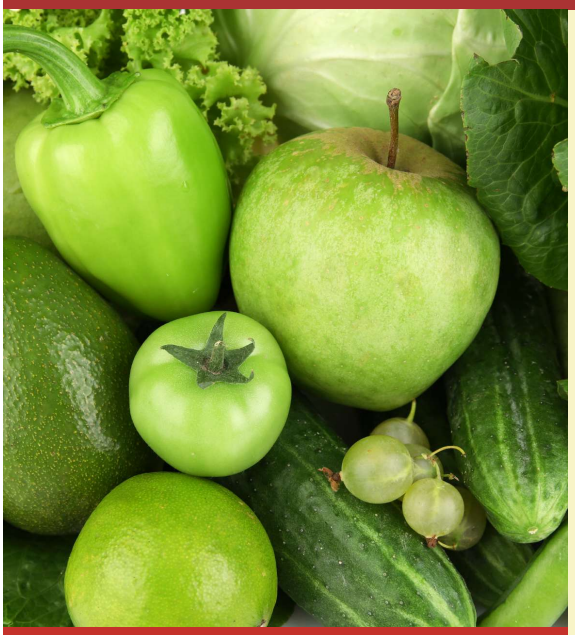
Module	Contents	Duration
1	Introduction	6 hrs
2	Web Copy Writing, Digital News Writing, Content Creation for different types of websites	6 hrs
3	Website Concepts, Theme, Colour, Branding	6 hrs
4	Developing E-Books, Blogs, E-Commerce Content	6 hrs
5	Website Types, Features, Characteristics,Introduction to Website Coding	6 hrs
	Total	**30 hrs**

Food and Nutrition

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2020-21

Centurion University of Technology and Management, Odisha



- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To educate the students about the importance of food for a holistic human development

Learning Outcomes

- Students will be able to understand in depth the balanced diet.
- Students will be able to understand Human Physiology and suggest appropriate food.

Course Syllabus

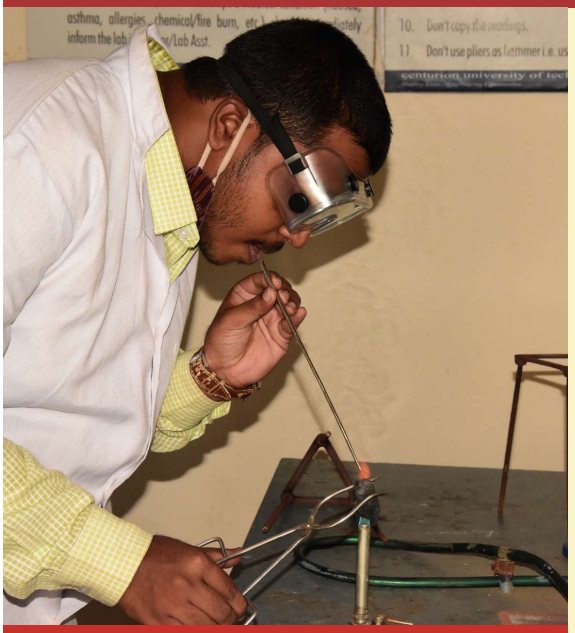
Module	Contents	Duration
1	Basic Food Science	3 hrs
2	Human Physiology	4 hrs
3	Human Nutrition	4 hrs
4	Community Nutrition	4 hrs
5	Food Commodities	3 hrs
6	Diet Therapy	4 hrs
7	Nutritional Biochemistry	4 hrs
8	Food Microbiology and Preservation	4 hrs
	Total	**30 hrs**

Clinical Practice

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2020-21

Centurion University of Technology and Management, Odisha



- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To understand the lab errors.
- To understand the strategy for the acceptance and rejection of samples.
- To learn about importance of quality control.

Learning Outcomes

- To learn about role of Automation in clinical Biochemistry laboratory.
- To understand the various analytical procedures for routine biochemical parameters.
- Reporting and interpretation of results.

Course Syllabus

Module	Contents	Duration
1	Introduction	3 hrs
2	Lap & Analytical errors	4 hrs
3	Automation in Clinical Biochemistry Laboratory	4 hrs
4	ELISA Technique, Analysis of Routine Biochemical Parameters	4 hrs
5	Maintenance of the Instruments	3 hrs
6	ABG: Introduction & Interpretation	4 hrs
7	Interference of Drugs in Biochemical Results	4 hrs
8	Post Analytical Errors and Reporting of Results	4 hrs
	Total	**30 hrs**

Innovation Management

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2020-21

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- Introduce and explore innovation management concept, how to manage product innovation and product development and build competitiveness through innovation

Learning Outcomes

- Identify the factors to achieve success in innovation
- Recognize the factors to manage the uncertainty
- Examine the different forms of protections for intellectual property
- Learn how to understand patent, introduce components of a patent
- Understand how to handle confidential information
- Recognize different ways of managing innovation such as alliances, open innovation
- Understand the fundamentals of R&D management

Course Syllabus

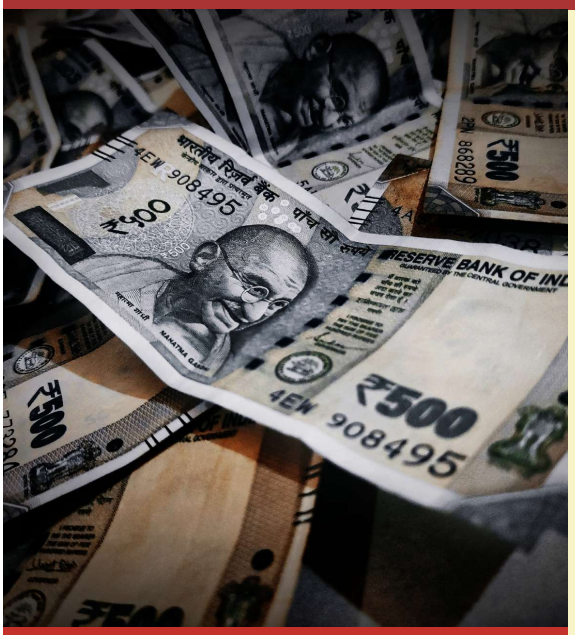
Module	Contents	Duration
1	Introduction	5 hrs
2	Innovation Diffusion Theory	5 hrs
3	Innovation Organisation	5 hrs
4	Manufacturing Principles of Innovation	5 hrs
5	Triggers of Innovation	5 hrs
6	Expansion to Patent	5 hrs
	Total	**30 hrs**

Financial Literacy

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2020-21

Centurion University of Technology and Management, Odisha



- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To help them manage their money through budgeting
- To gain knowledge about various borrowing methods

Learning Outcomes

- Students will demonstrate knowledge of money management within three main areas: responsible borrowing, budgeting, and credit.

Course Syllabus

Module	Contents	Duration
1	Developing Budget	8 hrs
2	Responsible Borrowing	7 hrs
3	Money Management	8 hrs
4	Saving for Emergencies	7 hrs
	Total	**30 hrs**

Yoga and Meditation

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2020-21

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To spread the message of complete well-being i.e. Physical, Mental, Social and Spiritual.
- To encourage students towards healthy lifestyle.
- To record student's health transformation for research project.

Learning Outcomes

- To overcome many simple disorders
- To perform some major Yoga techniques
- To develop confidence and clarity about life.
- To guide a path of simplicity, healthy & harmony

Course Syllabus

Module	Contents	Duration
1	Theory	4 hrs
2	*Kriya*	4 hrs
3	*Sukshma Vyayama & Stula Vyayama*	5 hrs
4	*Surya Namaskar*	4 hrs
5	20 useful Culturative Asanas & Relaxative & Meditative Asanas	5 hrs
6	*Pranayama with Bandhas & Mudras)*	4 hrs
7	Yoga Nidra & Meditation	4 hrs
	Total	**30 hrs**

Step for Career Plan

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2020-21

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- Students will engage in a self-assessment process in which they will identify their own unique interests, abilities, values, strengths, challenges and technology needs

Learning Outcomes

- Students will create, modify, edit and perfect a resume that is representative of their skills, abilities, and experience. They will also demonstrate the acquisition of appropriate interview and networking skills.
- Students will develop an awareness of cultural norms and differences by identifying differences in cultural work styles and work ethics.

Course Syllabus

Module	Contents	Duration
1	Introduction	7 hrs
2	Interest Assessment	8 hrs
3	Assessment of Values and Abilities	8 hrs
4	Job Search	7 hrs
	Total	**30 hrs**

MS Excel Basics

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2020-21

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To build a strong understanding on the Basics of Microsoft Excel

Learning Outcomes

- Ability to design a personal budget file using Excel

Course Syllabus

Module	Contents	Duration
1	Introduction to Microsoft Excel 101	5 hrs
2	Excel Basic Formulas	5 hrs
3	Excel Data Validation	5 hrs
4	Excel Formulas, Functions and Logical Functions	5 hrs
5	Creating Charts in Excel	5 hrs
6	Making Budget in Excel	5 hrs
	Total	**30 hrs**

Ethical Writing Practice

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2020-21

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

Students research, analyze, and practice writing about ethics and about the ethics of writing in assignments that may include reading journals, textual analyses, research papers, and other genres

Learning Outcomes

- defend a position on an ethical issue by articulating the reasons and evidence supporting that position
- tailor writing, including citation, to meet the conventions of various genres and the expectations of academic, professional, and other audiences

Course Syllabus

Module	Contents	Duration
1	Ways to form a complete argument	7 hrs
2	Considering wording	8 hrs
3	Citing Sources	8 hrs
4	Finding Reliable Sources	7 hrs
	Total	**30 hrs**

ANSYS

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2020-21

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

They will be able to model simple and complex composite model in ANSYS

Learning Outcomes

- They will be able to model simple and complex composite model in ANSYS
- They will be able to work with ACP tools
- They will be able to work with different ANSYS analysis tools in workbench
- They will learn how to work with ANSYS workbench

Course Syllabus

Module	Contents	Duration
1	Introduction	3 hrs
2	Selection Logic, Solid Modelling, Meshing	4 hrs
3	Material Properties, Boundary Conditions, Solvers	4 hrs
4	Post-processing	4 hrs
5	Introduction to Non-Linear Analysis	3 hrs
6	Sample: Structural, Thermal, Modal Analysis	4 hrs
7	Tips & Tricks	4 hrs
8	ANSYS Workbench	4 hrs
	Total	**30 hrs**

Video Making for YouTubers

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2020-21

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

Is to help the students to find their niche and create the necessary content in a visually appealing manner for the YouTube platform.

Learning Outcomes

Students will be able to set up, record, edit and upload their videos on YouTube and also optimize it for the platform.

Course Syllabus

Module	Contents	Duration
1	Create a YouTube video strategy	3 hrs
2	Make sure your video is found of YouTude	3 hrs
3	Find YouTube ideas and topics	3 hrs
4	Understand YouTube equipment for beginners	3 hrs
5	Learn the first YouTube video	3 hrs
6	Set up your video recording	3 hrs
7	Record your desktop	3 hrs
8	Edit your video	3 hrs
9	Upload your video on YouTube	3 hrs
10	Optimize your video for YouTube	3 hrs
	Total	**30 hrs**

The Mind-Its Mysteries & Conquest

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2019-20

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To understand the mind and its latent capacities
- To understand the various mechanisms for controlling mind

Learning Outcomes

- Students will be able to understand the mind and discover the latent capacities
- Students will be able to apply various mechanism to control mind

Learning Outcomes

Module	Contents	Duration
Module-1	Understanding the Mind	7.5 hours
Module-2	Theory of Perception	7.5 hours
Module-3	Thought Culture	7.5 hours
Module-4	Mechanisms	7.5 hours
	Total	**30 hours**

Understanding Personality-The Bhagavad Gita Perspective

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2019-20

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To understand the different theories of personality from the stand-point of the Bhagavad Gita
- To enrich and transform the personality through inculcating virtues mentioned in the Bhagavad Gita

Learning Outcomes

- Students will be able to the different theories of personality from the standpoint of the Bhagavad Gita
- Students will be able to enrich and transform the personality through inculcating virtues mentioned in the Bhagavad Gita

Learning Outcomes

Module	Contents	Duration
Module-1	Sattvic Personality	6 hours
Module-2	Rajasic Personality	6 hours
Module-3	Tamasic Personality	6 hours
Module-4	Cultivation of Virtues	6 hours
Module-5	Eradication of Vices	6 hours
	Total	**30 hours**

Understanding Leadership-The Valmiki Ramayana Perspective

YEAR: 2019-20

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To understand the different styles of leadership from the standpoint of the Valmiki Ramayana
- To enrich the leadership capabilities through inculcating virtues mentioned in the Valmiki Ramayana

Learning Outcomes

- Students will be able to the different styles of of leadership from the standpoint of the Valmiki Ramayana
- Students will be able to enrich the leadership capabilities through inculcating virtues mentioned in the Valmiki Ramayana

Learning Outcomes

Module	Contents	Duration
Module-1	Authoritarian Leadership	6 hours
Module-2	Participative Leadership	6 hours
Module-3	Delegative Leadership	6 hours
Module-4	Transactional Leadership	6 hours
Module-5	Transformational Leadership	6 hours
	Total	**30 hours**

Organic Farming

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2019-20

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

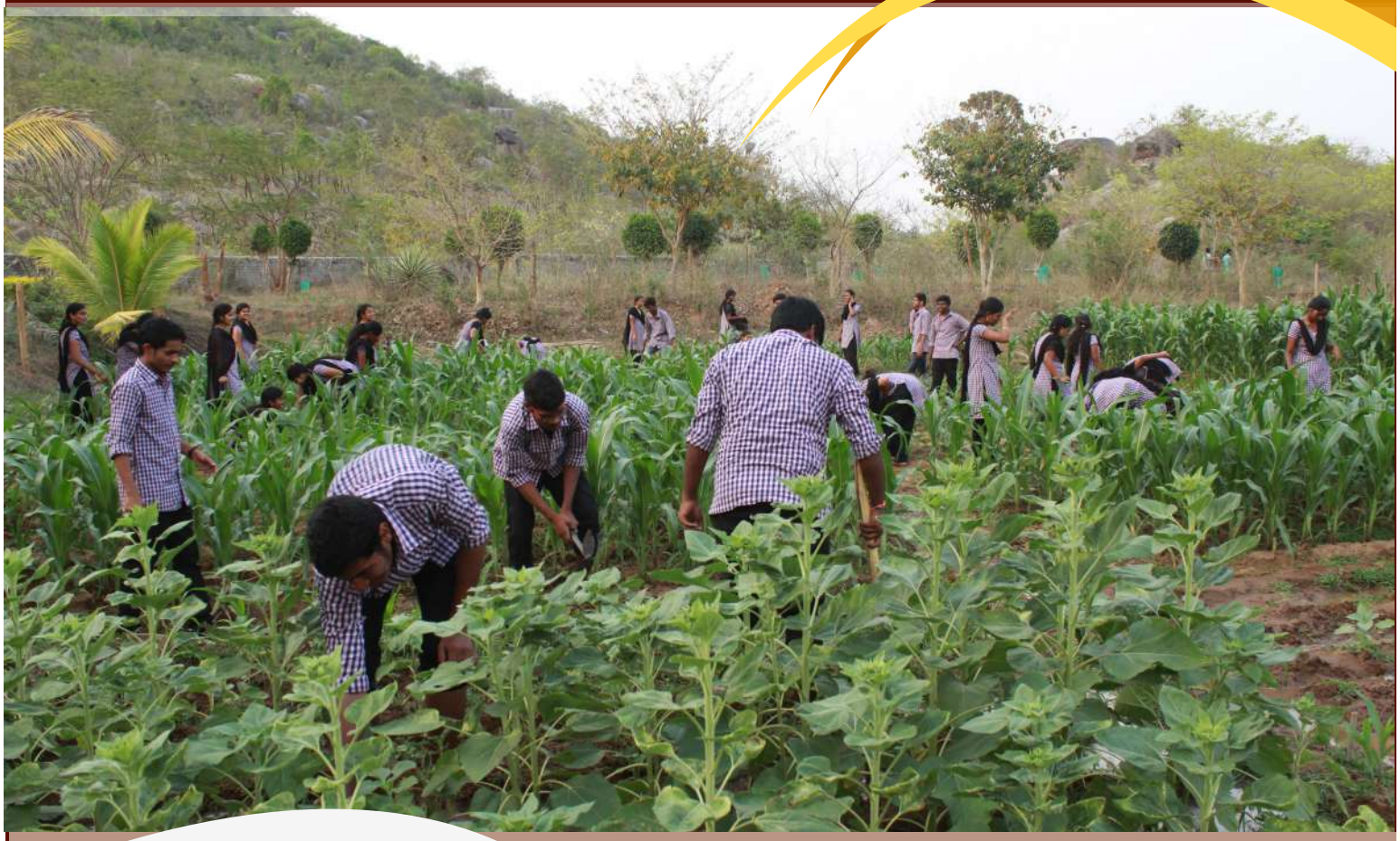
- Imparting knowledge on the scope and concepts of organic farming in India
- Discussing on indigenous weed, pest, disease and nutrient management for organic farming
- Educating students on the certification and marketing of organic farm produces

Learning Outcomes

- Analyze the scope of organic farming
- Recommend varieties suitable for organic farming
- Comprehend management practices suitable for organic farming
- Understand processing and marketing of organic products
- Develop entrepreneur skills and ideas to practice organic farming

Module	Contents	Duration
Module-1	Scope	6 hours
Module-2	Concepts and Crop Selection Practices	6 hours
Module-3	Crop Management	6 hours
Module-4	Certification and Marketing	6 hours
Module-5	Cotemporary Issues	6 hours
	Total	**30 hours**

Urban kitchen gardens using Hydroponics



YEAR: 2019-20

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To understand the principal factors affecting environmental management principles, systems and their management
- To identify common pests and characteristics of different diseases and to understand pest management practices

Learning Outcomes

- Students will be able to understand the principal factors affecting environmental management principles, systems and their management
- Students will be able to identify common pests and characteristics of different diseases and to understand pest management practices

Module	Contents	Duration
Module-1	Introduction	10 hours
Module-2	Hydroponic growth of Plants	10 hours
Module-3	Hydroponic System Management	10 hours
	Total	**30 hours**

Introduction to PowerBI

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2019-20

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To understand various tools of PowerBI
- To create dashboards and reports through PowerBI

Learning Outcomes

- Students will be able to understand various tools of PowerBI
- Students will be able to create dashboards and reports through Power BI

Module	Contents	Duration
Module-1	Introduction-PowerBI	10 hours
Module-2	Understanding Data	10 hours
Module-3	Creating Dashboards and Reports	10 hours
	Total	**30 hours**

Introduction to Python

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2019-20

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- How to tell a story from data
- How to marshal the data for storyline
- The ability to develop visualisation to tell the story
- The focus is on analysis of data using visualisation as a tool

Learning Outcomes

- To create impactful visualisation with good story line.

Module	Contents	Duration
Module-1	Story Board Development	10 hours
Module-2	Data Reading using Python Functions	10 hours
Module-3	Data Visualization using Python Libraries	10 hours
	Total	**30 hours**

Food and Nutrition

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2019-20

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- Students will learn glycemic index, balanced diet, micronutrient deficiencies and the remedies, nutraceuticals and their importance, junk foods and their hazards. They will understand the need for specialized food for people with special needs - diabetes, pregnancy, inherited genetic disorders. Merits and demerits of vegetarian and non-vegetarian foods will be studied.

Learning Outcomes

- Understand both fundamental and applied aspects of food science. Provides for fundamental understanding of food chemistry, and food microbiology. Gain insights about role of specific nutrients in maintaining health and identifying nutrient specific foods.

Module	Contents	Duration
Module-1	Introduction	7.5 hours
Module-2	Carbohydrates and Essential amino acids	7.5 hours
Module-3	Vitamins and Minerals	7.5 hours
Module-4	Ant nutritional factors	7.5 hours
	Total	**30 hours**

Behavioural Economics

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2019-20

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- Building awareness in the field of behavioural economics
- To understand individual decision-making of economic actors or stakeholders

Learning Outcomes

- Ability to understand the world of economics from a behavioural perspective
- Ability to integrate decision making process with reference to present context

Module	Contents	Duration
Module-1	Basics-Behavioural Economics	10 hours
Module-2	Classification-Context, Actors	10 hours
Module-3	Policy and Perspectives	10 hours
	Total	**30 hours**

Nutrition for Healthy Living

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2019-20

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To understand the food patterns for consumption
- To understand the effect of food-intake
- To understand healthy life style patterns

Learning Outcomes

Students will be able to

- Assess nutritional status
- Preventive measures for better health
- Identify the medicinal properties of foods and food ingredients

Module	Contents	Duration
Module-1	Food, Nutrition, Health and Hygiene	7.5 hours
Module-2	Assessment of Nutritional Status	7.5 hours
Module-3	Common health problems	7.5 hours
Module-4	Balanced Diet	7.5 hours
	Total	**30 hours**

Conflict Resolution

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2019-20

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To develop active listening skills as a means of achieving a resolution
- To develop collaborative solution practices

Learning Outcomes

- Enables active listening skills
- Development of approaches to manage the conflict

Module	Contents	Duration
Module-1	Active Listening Skills	10 hours
Module-2	Communication Problems and Skills	10 hours
Module-3	Usable Plan	10 hours
	Total	**30 hours**

Gender issues in contemporary times

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2019-20

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To develop an understanding of gender in an unequal society like India
- To engage with central debates in the field of Gender Studies
- To apply a variety of methods of analyzing gender in society, drawing upon both primary and secondary sources

Learning Outcomes

- Understanding the complexity of issues and challenges relating to gender
- Able to communicate effectively about gender issues in both writing and speech, drawing upon Gender Studies scholarship and addressing a public audience

Module	Contents	Duration
Module-1	Introduction-Gender Studies	10 hours
Module-2	Crossing Gender Boundaries	10 hours
Module-3	Gender and Work	10 hours
	Total	**30 hours**

Natural Resource Management

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2019-20

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To understand general principles of natural resource management
- To apply soil and water conservation principles and practices on natural resource management
- To assess the challenges between agricultural productivity and environmental protection

Learning Outcomes

- Learn how to use critical thinking skills to convey how society perceives what natural resource management is
- Learn how we actually manage or conserve our natural resources, how these activities impact our natural resources
- Learn how to improve on these applications, and how to network with pertinent organizations and individuals to collaborate on these ideas.

Course Syllabus

Module	Contents	Duration
1	Introduction	6 hrs
2	Soil and Soil Conservation	6 hrs
3	Forest Ecology, Wildlife Management & Species Extinction	6 hrs
4	Water Ecosystem & Water Quality	6 hrs
5	Climate Change Effects on Natural Resources	6 hrs
	Total	**30 hrs**

Rural Livelihood and Promotion

Year: 2019-20

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- The purpose of the course is to educate the students about various aspects of poverty, government and other aspects of partners to eradicate poverty and role of rural mangers in poverty eradication. This knowledge will help students in understanding the dimensions of poverty alleviation and livelihoods promotion as well as guide them to fulfill their professional obligations in near future.

Learning Outcomes

- Recognize different factors responsible for Poverty in India and specify methods to reduce poverty in given situation
- Explain various dimensions about different poverty Alleviation Programmes
- Analyse Grassroots level scenario of Rural livelihoods and specify suitable method to implement livelihoods based intervention

Course Syllabus

Module	Contents	Duration
1	Poverty in India	7 hrs
2	Concept of Food Security & Food Grain Bank	7 hrs
3	Targeted Poverty Alleviation Programmes	8 hrs
4	Livelihood	8 hrs
	Total	**30 hrs**

Leadership in Organizations

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2019-20

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To understand the different styles of leadership
- To enrich the positive leadership capabilities through inculcating traits and characteristics

Learning Outcomes

- Students will be able to the different styles of of leadership
- Students will be able to enrich the positive leadership capabilities through inculcating traits and characteristics

Learning Outcomes

Module	Contents	Duration
Module-1	Authoritarian Leadership	6 hours
Module-2	Participative and Servant Leadership	6 hours
Module-3	Delegative Leadership	6 hours
Module-4	Transactional Leadership	6 hours
Module-5	Transformational, Ethical and Authentic Leadership	6 hours
	Total	**30 hours**

Introduction to Qualitative Research Methodology

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2019-20

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- Understanding the characteristics, roles and importance of qualitative research
- Achieve a working familiarity with a range of qualitative methods
- Acquire skills in qualitative data collection and analysis methods, including use of NVivo

Learning Outcomes

- Design a research approach that appropriately and ethically addresses a research objective within a consistent conceptual framework, incorporating a coherent and suitable set of methods for design, data gathering and data analysis.
- Understand how question design relates to survey, focus group and interview question creation; design and evaluate questions for semi-structured interviews and focus groups; then conduct (and record / transcribe) interviews and focus groups in a professional and ethical manner.

Module	Contents	Duration
Module-1	Introduction to Qualitative Research	10 hours
Module-2	Qualitative Research Designs and Philosophy	10 hours
Module-3	Qualitative Research Methods	10 hours
	Total	**30 hours**

Knowledge Management

Centurion UNIVERSITY
Shaping Lives...
Empowering Communities...

YEAR: 2019-20

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To understand the basic principles of knowledge management
- To understand the effect of knowledge management in organizations
- To understand the underlying technologies that enable knowledge management solutions

Learning Outcomes

- Students will be able to understand the basic principles of knowledge management
- Students will be able to understand the effect of knowledge management in organizations
- Students will be able to understand the underlying technologies that enable knowledge management solutions

Module	Contents	Duration
Module-1	Basic principles-Knowledge management	10 hours
Module-2	Theories of knowledge management	10 hours
Module-3	Technological interface-knowledge management	10 hours
	Total	**30 hours**

Professional Etiquette

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2019-20

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- Set the best impression by your professional corporate skills
- Understand Body language and the influence of it
- Sharpen your office skills including telephonic, letter and email communications

Learning Outcomes

- Inter-personal skills are sharpened and developed to build class and excellence
- Individuals become more efficient in handling and communicating with other
- Self-Confidence and positive energy becomes evident by the mannerisms

Course Syllabus

Module	Contents	Duration
1	The First Impression	3 hrs
2	Body Language	3 hrs
3	Internal Office Etiquettes	3 hrs
4	Email Etiquettes	3 hrs
5	Dressing Etiquettes	3 hrs
6	Dining Etiquettes	3 hrs
7	Telephonic Etiquettes	3 hrs
8	Writing Etiquettes	3 hrs
9	Managing Multi-cultures	3 hrs
10	International Standards and Government Diplomats	3 hrs
	Total	**30 hrs**

LIFE SKILLS DEVELOPMENT-2 (LSD-2)

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2018-19

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To provide ample opportunities for practice
- To make the students solve each and every question within 30-40 seconds
- To make the students visit all the questions in any exam
- To make them learn the art of skipping questions which require more time
- To make the students eligible to score 70% or more in each written tests

Learning Outcomes

- Quantitative ability skills will be increased
- Calculation & logical thinking skills will be increased
- Time spent per questions will be minimized
- Students will be able to score minimum of 70%
- Improved skills to qualify all competitive exams like campus written tests, banking exams, SSC exams, Railway exams, GATE exams

Module	Contents	Duration
Module-1	Percentage, Profit and Loss, Order and Ranking, Direction Sense Test	15 hours
Module-2	Ratio and Proportion, Age, Partnership, Mixture and Alle-gations, Clock, Calendar,	15 hours
	Total	**30 hours**

Conduct in daily life- Insights from The Panchatantra

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2018-19

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To understand the Panchatantra and its practical applications with respect to daily life
- To regulate their daily conduct based on the teachings of Panchatantra

Learning Outcomes

- Students will be able to deal with various people and various situations in their professional and personal life
- Students will be able to regulate their daily conduct

Learning Outcomes

Module	Contents	Duration
Module-1	Mitra-bheda (The loss of friends)	6 hours
Module-2	Mitra-lābha (The winning of friends)	6 hours
Module-3	Kākolūkīyam (On War and Peace)	6 hours
Module-4	Labdhapraṇāśam (Loss of gains)	6 hours
Module-5	Aparīkṣitakārakaṃ (On Hasty Actions)	6 hours
	Total	**30 hours**

Human Rights

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2018-19

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

The course is an introduction to human rights. Human beings are rational beings. They by virtue of their being human possess certain basic and inalienable rights which are commonly known as human rights. Human Rights are defined as all those rights which are essential for the protection and maintenance of dignity of individuals and create conditions in which every human being can develop his or her personality to the fullest extent. The purpose of this course is for students to gain a holistic view of human rights and their implications.

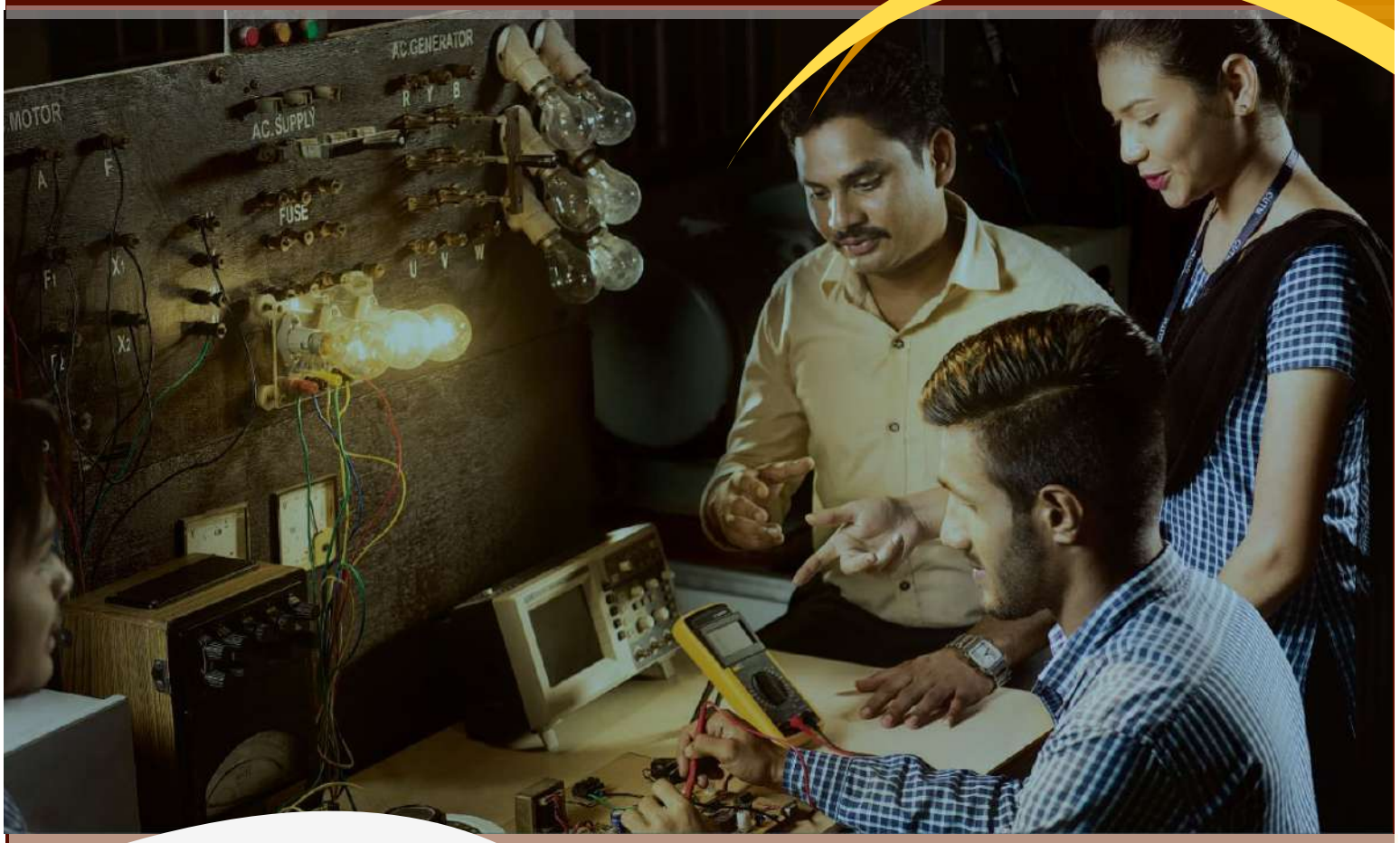
Learning Outcomes

- Develop an understanding of human rights, its history, characteristics and types
- Gain a nuanced understanding of protection, violation and the legal framework for their protection - International Human Rights Law, Council of Human Rights, Universal Declaration of Human Rights, Legal Effects of the Declaration, International Humanitarian Law
- Conflicts of Rights: Challenges of the past and Challenges for the future

Module	Contents	Duration
Module-1	Introduction to Human Rights	10 hours
Module-2	Human Rights Law	10 hours
Module-3	Conflicts of Rights: Challenges of the past and challenges for the future	10 hours
	Total	**30 hours**

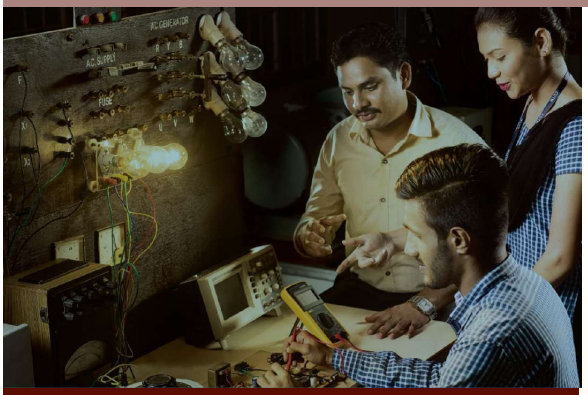
RENEWABLE ENERGY

Centurion University
Shaping Lives...
Empowering Communities...



YEAR: 2018-19

Centurion University of Technology and Management, Odisha



- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- Understand the various forms of conventional energy resources
- Learn the present energy scenario and the need for energy conservation
- Explain the concept of various forms of renewable energy
- Outline division aspects and utilization of renewable energy sources for both domestics and industrial application
- Analyse the environmental aspects of renewable energy resources.

Learning Outcomes

- Describe the environmental aspects of non-conventional energy resources. In Comparison with various conventional energy systems, their prospects and limitations
- Know the need of renewable energy resources, historical and latest developments.
- Describe the use of solar energy, wind energy, bio-mass etc along with their conservation strategies

Module	Contents	Duration
Module-1	Introduction-Non-conventional energy resources	10 hours
Module-2	Sources of renewable energy (solar, wind, bio-mass)	10 hours
Module-3	Principles of energy conservation	10 hours
	Total	**30 hours**

Data Science and Machine Learning

Centurion University
Shaping Lives... Empowering Communities...

YEAR: 2018-19

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- Understand the scope, stages, applications, effects and challenges of ML.
- Understand the mathematical relationships within and across ML algorithms and the paradigms of supervised and unsupervised learning.

Learning Outcomes

- Ability to Create and incorporate ML solutions in their respective fields of study.
- Ability to design and implement various machine learning algorithms in a range of real-world applications.
- Ability to design product/ publish article/ file patent

Module	Contents	Duration
Module-1	Application and Environmen-	10 hours
Module-2	Classification	10 hours
Module-3	Unsupervised Learning	10 hours
	Total	**30 hours**

Introduction to Nutraceuticals

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2018-19

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To study the advantages of functional foods over conventional Medicine to avoid potential side-effects
- To Study about dietary supplements
- To Study about food gene interface

Learning Outcomes

Students will be able to acquire skill on

- Functional foods and their effects on human health
- The role of antioxidants, polyphenols, omega-3 fatty acids, to prevent different physiological disorders.
- The importance of personalized food with respect to nutrigenetics.

Module	Contents	Duration
Module-1	Organizational Elements	7.5 hours
Module-2	Classification	7.5 hours
Module-3	Food Chemistry	7.5 hours
Module-4	Indian and Global Scenario	7.5 hours
	Total	**30 hours**

Introduction to Tableau

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2018-19

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To mastering the concept of Tableau
- To understand data and bring meaningful interpretation for decision making

Learning Outcomes

- Students will be able to master the concept of Tableau
- Students will be able to understand data and bring meaningful interpretation for decision making

Module	Contents	Duration
Module-1	Fundamentals of Visualization	10 hours
Module-2	Essential design principles for Tableau	10 hours
Module-3	Data visualization and creating dashboards with Tableau	10 hours
	Total	**30 hours**

Basics of Photography

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2018-19

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- Introduction to photography, including both aesthetic and technique.
- Understand how photographic camera works and records images.
- Provide an understanding of the visual and technical skills necessary to pursue and appreciate photography as an art.

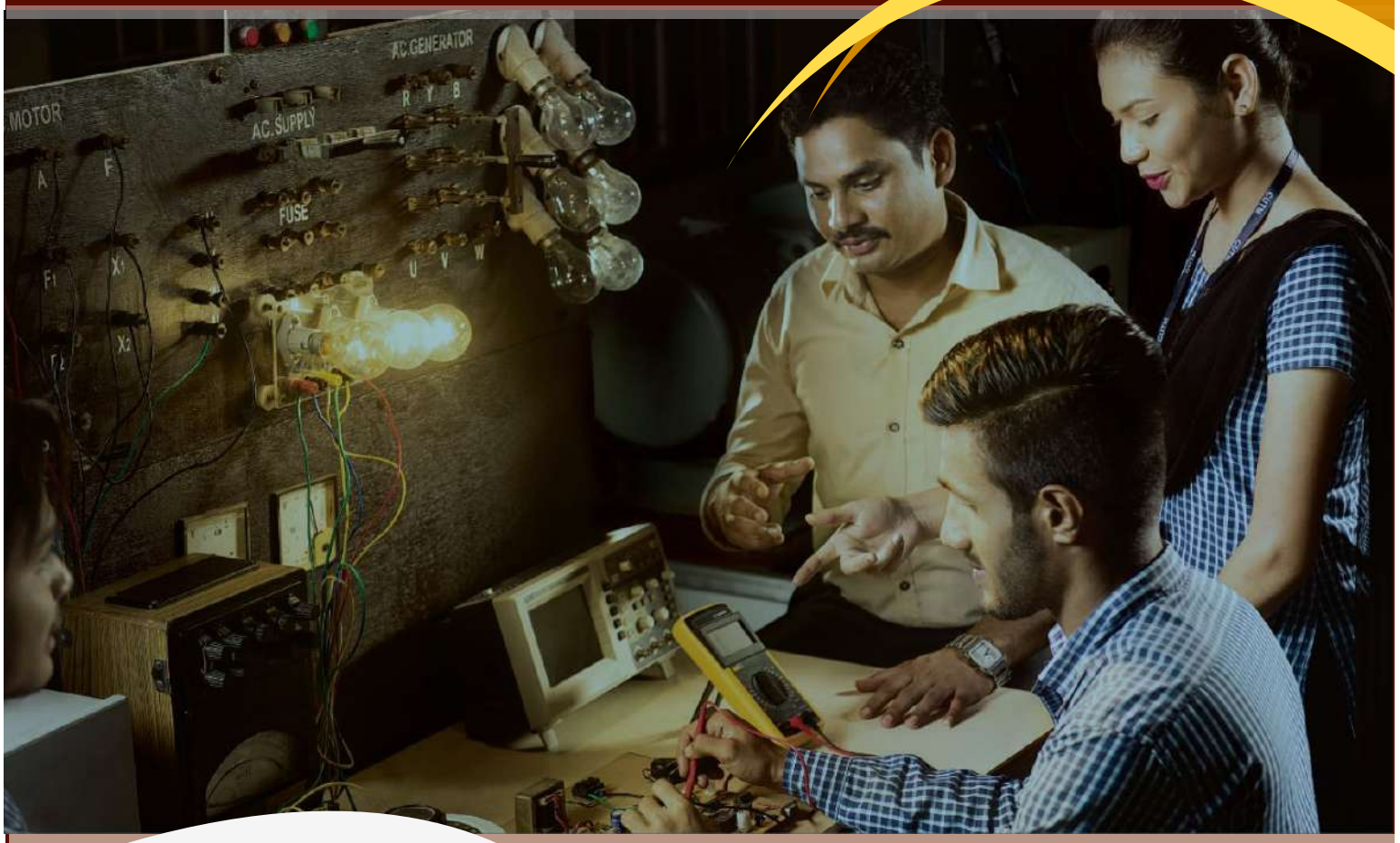
Learning Outcomes

- Gain a basic understanding of the functioning of a camera
- Gain skills to pursue both aesthetic and technical photography

Course Syllabus

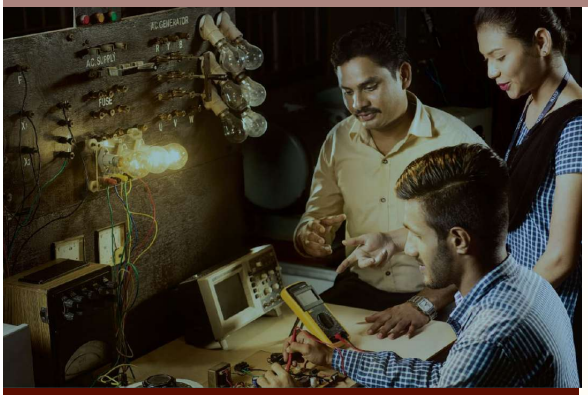
Module	Contents	Duration
1	History	6 hrs
2	Understanding Image	6 hrs
3	Introduction to digital photography & technicalities	6 hrs
4	Understanding lights and lighting techniques	6 hrs
Practical	Composition technique and themed photographs	6 hrs
	Total	**30 hrs**

Innovation Management



YEAR: 2018-19

Centurion University of Technology and Management, Odisha



- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To understand the basic forms and strategies of innovation
- To improve idea generation capabilities
- To explore ways of sustaining participation in innovation activity

Learning Outcomes

- To enable innovation and resilience capacities
- To enable a building pipeline for innovation through improving idea generation

Module	Contents	Duration
Module-1	Concept of Innovation and Its importance	10 hours
Module-2	Building Participation	10 hours
Module-3	The Business Model	10 hours
	Total	**30 hours**

Design Thinking

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2018-19

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To familiarize students with design thinking concepts and principles.
- To ensure students can practices the methods, processes and tools of design thinking.
- To ensure students can apply the design thinking approach and have ability to model real-world situations.

Learning Outcomes

- Examine Design Thinking concepts and principles
- Practice the methods, processes, and tools of Design Thinking
- Apply the Design Thinking approach and model to real world situations

Module	Contents	Duration
Module-1	Introduction to Design Thinking	7.5 hours
Module-2	Principles of Design Thinking	7.5 hours
Module-3	Processes and Tools of Design Thinking	7.5 hours
Module-4	Application to real-world situations	7.5 hours
	Total	**30 hours**

Effective Writing

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2018-19

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To understand the process of writing effectively
- To enable clarity, precision in the process of writing

Learning Outcomes

- Students will be able to understand the process of writing in an effective manner
- Students will be able to write clearly with precision

Module	Contents	Duration
Module-1	Introduction to Effective Writing	10 hours
Module-2	Creative Writing	10 hours
Module-3	Essentials of Academic Writing	10 hours
	Total	**30 hours**

Indian Culture and History

YEAR: 2018-19

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To understand the overview of Indian Culture and History
- To appreciate Sanskrit as language and enabling to learn it

Learning Outcomes

- Students will be able to understand the overview of Indian Culture and History
- Students will be able to appreciate Sanskrit and will try to learn it from core of their heart

Learning Outcomes

Module	Contents	Duration
Module-1	Ancient Indian History (Part-1)	6 hours
Module-2	Ancient Indian History (Part-2)	6 hours
Module-3	Historical Epics	6 hours
Module-4	Modern Indian History	6 hours
Module-5	Sanskrit Literature	6 hours
	Total	**30 hours**

Critical Thinking

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2018-19

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To understand the importance of critical thinking in academic culture
- To use a variety of thinking tools to improve critical thinking
- To identify types of argument and bias within arguments, in order to better evaluate the strength of arguments

Learning Outcomes

- Students will be able to understand the importance of critical thinking in academic culture
- Students will be able to use a variety of thinking tools to improve critical thinking
- Students will be able to identify types of argument and bias within arguments, in order to better evaluate the strength of arguments

Module	Contents	Duration
Module-1	Introduction-Critical Thinking	7.5 hours
Module-2	Critical Thinking in different contexts	7.5 hours
Module-3	Logic and Reasoning	7.5 hours
Module-4	Argumentation	7.5 hours
	Total	**30 hours**

Disability, Diversity and Development

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2018-19

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To develop an understanding of disability and diversity in an unequal society like India
- Understanding of how disability and diversity are significant in the context of development.
- Integrating concerns related to disability, diversity and development in all organisations.

Learning Outcomes

- Understanding the complexity of disability issues and challenges relating to inclusion, diversity and development.
- Be sensitive to disability and diversity within an organizational context
- To integrate concerns related to disability exclusion and diversity management into holistic development of policies, processes and systems in an organization.

Module	Contents	Duration
Module-1	Definitions, concept and models of disability	10 hours
Module-2	Introduction to diversity	10 hours
Module-3	Components for organization's development – Accessibility, Inclusive Design and Reasonable Accommodations for development in organisations	10 hours
	Total	**30 hours**

Intellectual Property Rights

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2018-19

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- Understanding, defining and differentiating different types of intellectual properties (IPs) and their roles in contributing to organizational competitiveness.
- Understanding the Framework of Strategic Management of Intellectual Property (IP).
- Appreciating and appraising different IP management (IPM) approaches and describing how pioneering firms initiate, implement and manage IPM programs.

Learning Outcomes

- Identify different types of Intellectual Properties (IPs), the right of ownership, scope of protection as well as the ways to create and to extract value from IP.
- Recognize the crucial role of IP in organizations of different industrial sectors for the purposes of product and technology development.
- Identify activities and constitute IP infringements and the remedies available to the IP owner and describe the precautious steps to be taken to prevent infringement of proprietary rights in products and technology development.

Module	Contents	Duration
Module-1	Introduction to Intellectual Property	7.5 hours
Module-2	Trade Marks	7.5 hours
Module-3	Law of Copyrights	7.5 hours
Module-4	International Regime relating to IPR	7.5 hours
	Total	**30 hours**

Emotional Intelligence

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2018-19

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- Learn the four core skills required to practice emotional intelligence
- Implement these concepts and techniques in various social settings

Learning Outcomes

- Verbally communicate with others with emotional awareness
- Interpret and manage your emotions in any situation
- Master tools to regulate and gain control of your own emotions

Course Syllabus

Module	Contents	Duration
1	Introduction	6 hrs
2	Becoming Self-Aware & Self Management	6 hrs
3	Self Management, Empathy & Social Skills	6 hrs
4	Verbal & Non-Verbal Communication Skills	6 hrs
5	Social Management and Responsibility	6 hrs
	Total	**30 Hrs**

Home Remedies for Healthy Living

Centurion University
Shaping Lives...
Empowering Communities...

Year: 2018-19

Centurion University of Technology and Management, Odisha

- Prerequisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- Implementation of the importance of lifestyle treatment and its implications on the individual and on the general healthcare system
- Experiential learning and acquisition of knowledge and tools for personal application of healthy lifestyle for the course participants

Learning Outcomes

- Have in-depth knowledge of the field of lifestyle medicine and its importance to patients' health
- Adopt a positive attitude toward lifestyle intervention and will promote the application of this field, on a personal level and in daily medical treatment

Course Syllabus

Module	Contents	Duration
1	Introduction	6 hrs
2	Principles of nutrition, prevention and treatment of obesity	6 hrs
3	Physical Activity & Coping with stress	6 hrs
4	Sleep and Health	6 hrs
5	Tools that Promote Change Process	6 hrs
	Total	**30 hrs**

Self Management-Insights from Srimad Bhagavad Gita

Centurion University
Shaping Lives...
Empowering Communities...

2018-19

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To understand the different theories of personality from the stand-point of the Bhagavad Gita
- To enrich and transform the personality through inculcating virtues mentioned in the Bhagavad Gita

Learning Outcomes

- Students will be able to manage their own self in any sort of situation in their professional/personal life
- Students will be able to enrich and transform the personality through inculcating virtues mentioned in the Bhagavad Gita

Learning Outcomes

Module	Contents	Duration
Module-1	Sattvic Personality	6 hours
Module-2	Rajasic Personality	6 hours
Module-3	Tamasic Personality	6 hours
Module-4	Cultivation of Virtues	6 hours
Module-5	Eradication of Vices	6 hours
	Total	**30 hours**

LIFE SKILLS DEVELOPMENT-2 (LSD-2)

Centurion University
Shaping Lives... Empowering Communities...

YEAR: 2017-18

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To provide ample opportunities for practice
- To make the students solve each and every question within 30-40 seconds
- To make the students visit all the questions in any exam
- To make them learn the art of skipping questions which require more time
- To make the students eligible to score 70% or more in each written tests

Learning Outcomes

- Quantitative ability skills will be increased
- Calculation & logical thinking skills will be increased
- Time spent per questions will be minimized
- Students will be able to score minimum of 70%
- Improved skills to qualify all competitive exams like campus written tests, banking exams, SSC exams, Railway exams, GATE exams

Module	Contents	Duration
Module-1	Percentage, Profit and Loss, Order and Ranking, Direction Sense Test	15 hours
Module-2	Ratio and Proportion, Age, Partnership, Mixture and Alle-gations, Clock, Calendar,	15 hours
	Total	**30 hours**

Development of Concentration and Memory

Application of Raja Yoga in daily life

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2017-18

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To understand the secrets of concentration and memory culture
- To understand the different mechanisms of Raja Yoga

Learning Outcomes

- Students will be able to develop concentration abilities
- Students will be able to develop memory power

Learning Outcomes

Module	Contents	Duration
Module-1	The Philosophy of Yoga	6 hours
Module-2	Yoga Sutras of Patanjali	6 hours
Module-3	Theory of Concentration	6 hours
Module-4	Practice of Concentration	6 hours
Module-5	Physical and Mental Obstacles	6 hours
	Total	**30 hours**

Self-Defence for Girls

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2017-18

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To enable them to defend against any type of physical assault
- To enhance capacity through fostering self-confidence levels and self -defense training

Learning Outcomes

- Students will be able to to defend against any type of physical assault
- Students will be able to enhance capacity through fostering self-confidence levels and self-defense training

Learning Outcomes

Module	Contents	Duration
Module-1	Courage	10 hours
Module-2	Fitness	10 hours
Module-3	Combat Techniques	10 hours
	Total	**30 hours**

Digital Marketing

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2017-18

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To understand various concepts and importance of digital marketing and to visualize its various application in diverse areas of sales & marketing.
- To gain knowledge about advertisement and its application in real world

Learning Outcomes

- Students will be able to know, examine and implement digital marketing concepts for achieving sales and marketing goals of the organization
- Students will be able to formulate effective digital marketing campaigns for different organizations
- Students will be able to enumerate, explain and apply the concepts of advertising and marketing communications for achieving sales and marketing goals of the organization
- Students will be able to formulate effective advertising campaigns for different organizations

Module	Contents	Duration
Module-1	Digital Marketing-Planning and Structure	7.5 hours
Module-2	Google AdWords	7.5 hours
Module-3	Advertising Design	7.5 hours
Module-4	Media Planning and Strategy	7.5 hours
	Total	**30 hours**

Bio-Fertilizer

YEAR: 2017-18

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To demonstrate the low cost media preparation and cultural practices in bio fertilizer production.
- To produce and impart training of eco-friendly agricultural inputs so as to nullify the ill effects of chemical fertilizers.
- To prepare literature and promulgate in local language through booklets / documents etc. about; the benefits of bio fertilizers for farming in villages through trained beneficiaries/ cultivators as multiplier impact.
- To demonstrate the effectiveness of bio fertilizer cultural practices in the farmers fields for enhanced crop productivity through bio reclamation of waste/ marginal land.

Learning Outcomes

- To introduce the application of bio fertilizer technology in backward /remote villages & disseminate its know-how adoption (viz. Rhizobium, Azotobacter, Azospirillum, BGA, & Phosphate solubilizers, Mycorrhizae) as low cost bioinputs
- To raise the rural/tribal economy & living standard of the lowly of the lowest backward farming community especially SC & ST and marginal farmers.
- To create self employment opportunities to weaker underprivileged SC & ST and marginal farmers.

Module	Contents	Duration
Module-1	Cost Media Preparation	10 hours
Module-2	Agriculture Inputs	10 hours
Module-3	Bio-fertilizer cultural practices	10 hours
	Total	**30 hours**

Gender Issues

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2017-18

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To develop an understanding of gender in an unequal society like India
- Sensitization of how gender is significant in organizations
- Integrating concerns related to gender in organizations

Learning Outcomes

- Understanding the complexity of issues and challenges relating to gender
- Be sensitive to gender within an organizational context
- To integrate concerns related to gender into the policies, processes and systems in an organization

Module	Contents	Duration
Module-1	Understanding and Conceptualizing Gender Relations	10 hours
Module-2	Gender Issues in Development Sectors	10 hours
Module-3	Gender Analysis, Tools, Techniques and Frameworks	10 hours
	Total	**30 hours**

Solid Waste Management

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2017-18

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- Collection of Solid Waste
- Segregation of solid waste
- Reuse of solid waste

Learning Outcomes

- To use effectively solid wastes
- To safe disposal of solid waste

Module	Contents	Duration
Module-1	Collection of Solid Waste	10 hours
Module-2	Re-use of Solid Waste	10 hours
Module-3	Repair of Solid Waste	10 hours
	Total	**30 hours**

Smart Agriculture

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2017-18

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- To impart practical knowledge on production of cut flowers
- To impart knowledge on IoT based automation in polyhouse
- To enable students in handling Mobile Apps and drone in precision farming

Learning Outcomes

Students will be able to acquire skill on

- Production of cut flowers under protected cultivation
- Management of micro-climate under IoT based automated poly-house
- Precision crop management

Module	Contents	Duration
Module-1	Nursery Management	6 hours
Module-2	Regulatory structures used in protected structures	6 hours
Module-3	Mechanized harvesting	6 hours
Module-4	Bed-Preparation and Pest-disease management	6 hours
Module-5	Smart tools for Crop Manage-ment	6 hours
	Total	**30 hours**

Adobe Tools

Centurion University
Shaping Lives...
Empowering Communities...

YEAR: 2017-18

Centurion University of Technology and Management, Odisha

- Pre-requisites: Nil
- Course Type: Audit (Workshop)
- Duration: 30 Hours

Course Objectives

- This course includes the study of illustration as visual interpretation of words, concepts and ideas.
- Students learn basic software skills while developing drawing abilities in a digital environment.
- Strategies for communicating content through pictorial narrative are also explored.

Learning Outcomes

- Students have grown up with technology and live in a world where digital technology is part of the texture of their daily existence.
- They never saw the world without technology, technology is their native language and they expect to use technology in school.
- These digital tools which support creative expression. It's critical that they are encouraged to use these tools to express themselves creatively.
- They need opportunities to learn how to make their own creative products by observing other learners creating and sharing.

Module	Contents	Duration
Module-1	Drawing Fundamental	7.5 hours
Module-2	Working with software for Visual Imaging	7.5 hours
Module-3	Adobe Illustrator	7.5 hours
Module-4	Adobe Spark	7.5 hours
	Total	**30 hours**