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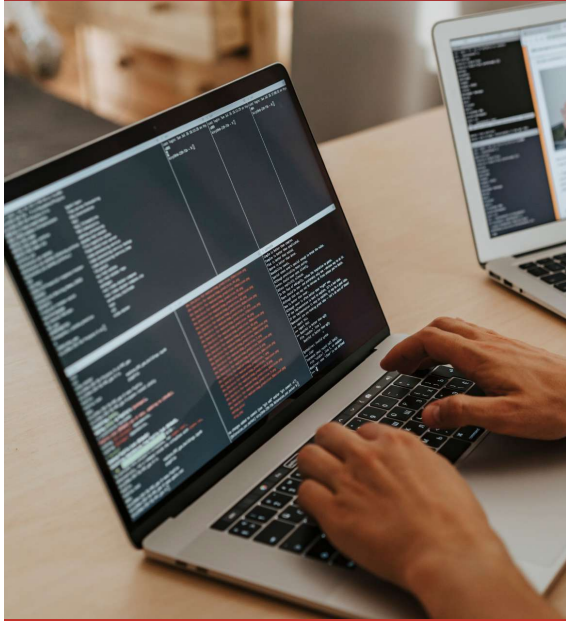
*Shaping Lives...
Empowering Communities...*

Ethical Hacking



Year: 2021-22

Centurion University of Technology and Management, Odisha



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

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



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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



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Technical Writing



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

Web Development



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

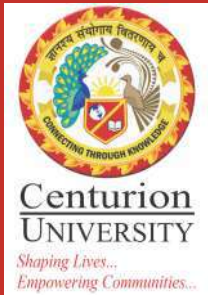
After completion of the course students will be able to

- 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



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.

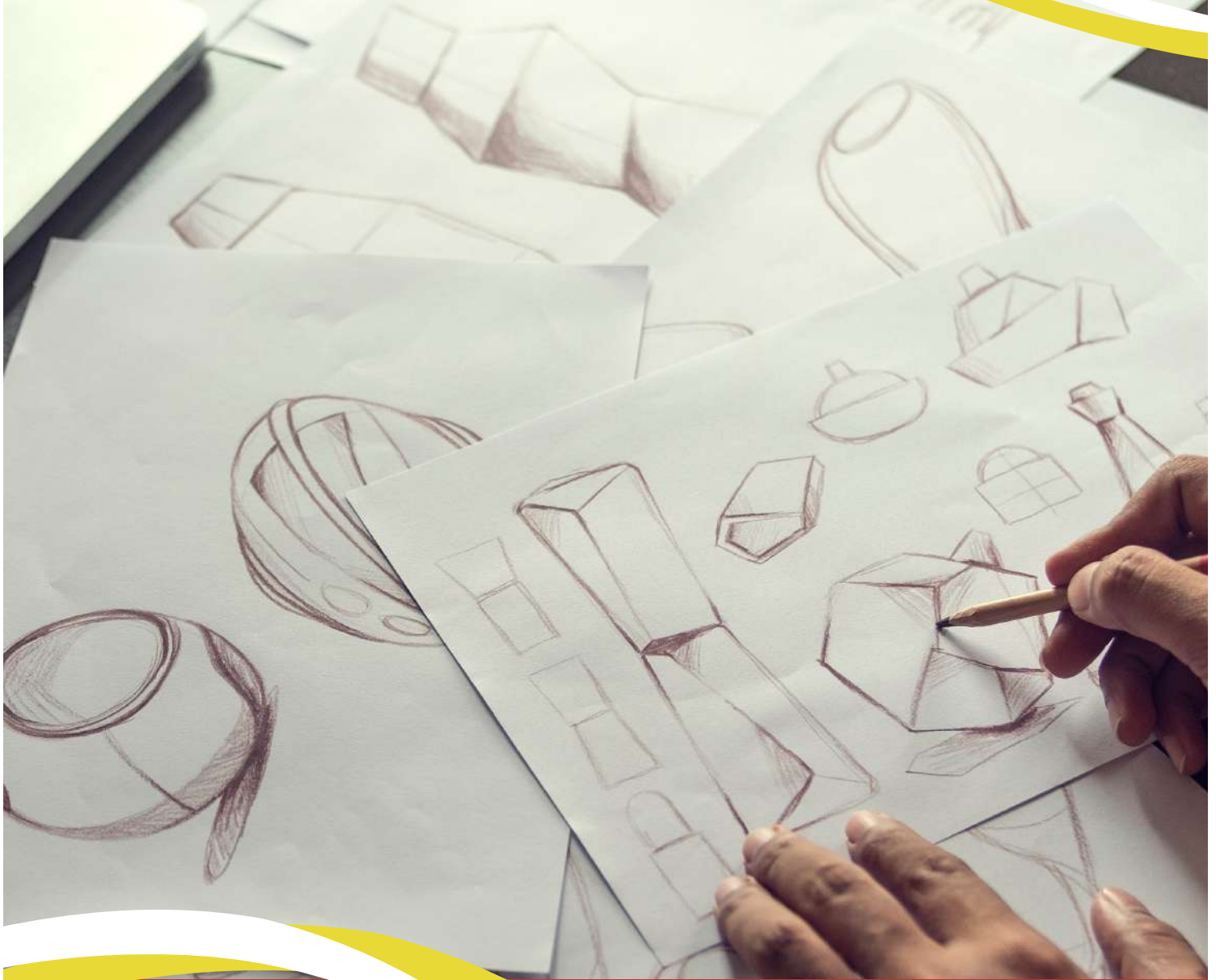
Learning Outcomes

- 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	<i>Kriya</i>	4 hrs
3	<i>Sukshma Vyayama & Stula Vyayama</i>	5 hrs
4	<i>Surya Namaskar</i>	4 hrs
5	20 useful Culturative Asanas & Relaxative & Meditative Asanas	5 hrs
6	<i>Pranayama with Bandhas & Mudras)</i>	4 hrs
7	Yoga Nidra & Meditation	4 hrs
	Total	30 hrs

ANSYS



Year: 2021-22

Centurion University of Technology and Management, Odisha



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

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

Research Methodology and IPR



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Year: 2020-21

Centurion University of Technology and Management, Odisha



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

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



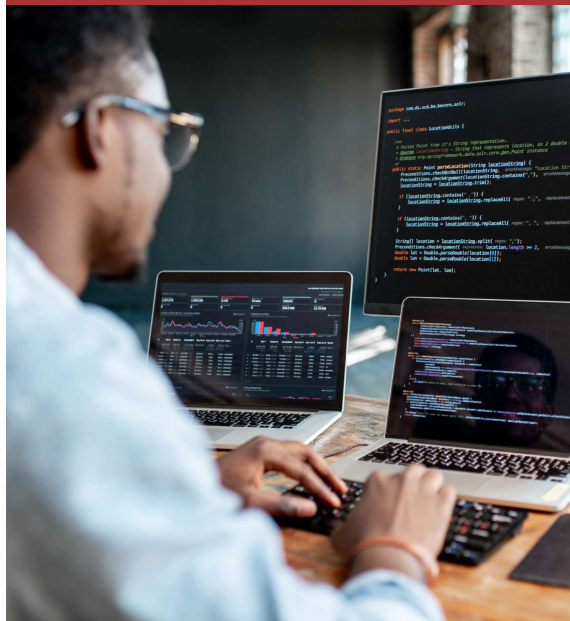
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MATLAB



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



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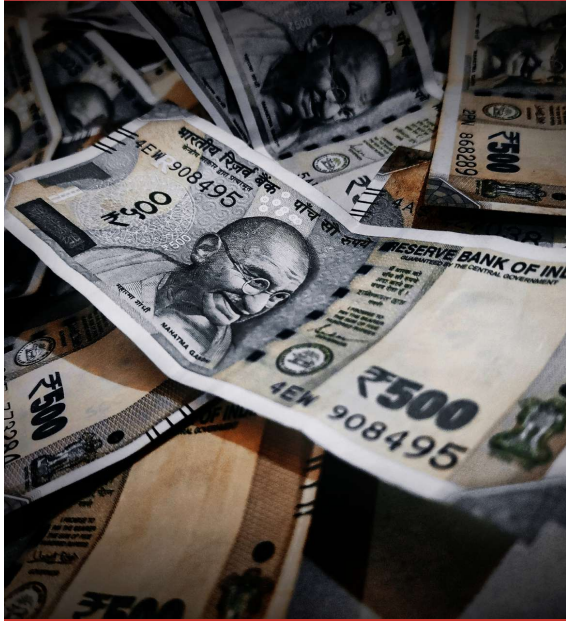
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Financial Literacy



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



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.
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Course Syllabus

Module	Contents	Duration
1	Theory	4 hrs
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6	<i>Pranayama with Bandhas & Mudras)</i>	4 hrs
7	Yoga Nidra & Meditation	4 hrs
	Total	30 hrs

MS Excel Basics



Year: 2020-21

Centurion University of Technology and Management, Odisha



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

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



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Organic Farming



YEAR: 2019-20

Centurion University of Technology and Management, Odisha



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

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

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



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Behavioural Economics



YEAR: 2019-20

Centurion University of Technology and Management, Odisha



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

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

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



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Nutrition for Healthy Living



YEAR: 2019-20

Centurion University of Technology and Management, Odisha



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

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

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

Introduction to Nutraceuticals



YEAR: 2018-19

Centurion University of Technology and Management, Odisha



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.

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

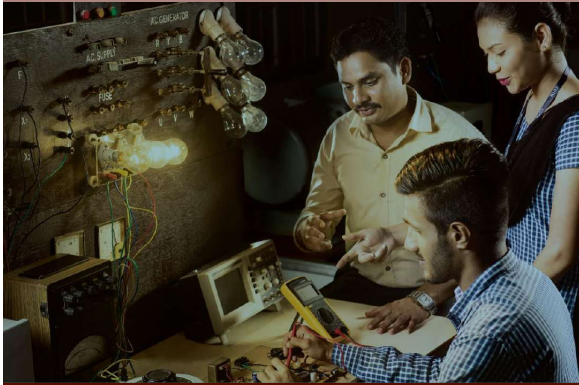
Module	Contents	Duration
Module-1	Organizational Elements	7.5 hours
Module-2	Classification	7.5 hours
Module-3	Food Chemistry	7.5 hours
Module-4	Indian and Global Scenario	7.5 hours
Total		30 hours

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

Smart Agriculture



YEAR: 2017-18

Centurion University of Technology and Management, Odisha



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

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

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 Management	6 hours
Total		30 hours