



CRITERION VI

LESSON PLAN

**Key Indicator – 6.5 Internal Quality Assurance System**

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms

**Lesson Plan**

Faculty members develop lesson plan based on the curriculum framework. A systematic mapping process links Lesson Plan to Course Outcomes (COs) at various cognitive levels from K1 to K6. The COs are mapped at three levels with Program Outcomes (POs) and Program Specific Outcomes (PSOs). Each column of the lesson plan outlines the topic covered, teaching pedagogy and the number of instructional hours required, cognitive level, activity given to the students and proposed date of completion.

**DEPARTMENT OF BUSINESS ADMINISTRATION**

**LESSON PLAN**

<b>Department</b>	Department of Business Administration		
<b>Degree &amp; Programme</b>	I BBA		
<b>Course Title</b>	PRINCIPLES OF MANAGEMENT	<b>Course Code</b>	23UBA1CC1
<b>Faculty Name</b>	Dr.J.TAMILSELVI	<b>Faculty Code</b>	01FBBA0004
<b>Total hours per week</b>	6	<b>Semester</b>	I
<b>Student Strength</b>	51	<b>Course Starting Date</b>	16.06.2023

**Course Objectives:**

- > To acquaint the student with a conceptual framework for understanding the basic theories of management, planning, goal setting, decision making, organizational structure, and effective control mechanisms.
- > To utilize these concepts in various decisive functions of an organizations.

**Course Outcomes:**

Course Outcomes and Cognitive Level Mapping

CO Number	CO Statement	Cognitive Level
CO1	On the successful completion of the course, students will be able to Define and acquire the concepts of functions of Management.	K1, K2
CO2	Apply the concepts of Planning and decision-making process in an organization.	K3
CO3	Analyse the knowledge of Business organization structure and its resources.	K4
CO4	Elucidate the process of effective controlling in organization	K2
CO5	Discuss the significance of ethics in business and its implications.	K2

**MAPPING OF CO WITH PO AND PSO**

COs	PSO1	PSO2	PSO3	PSO4	PSO5	PO1	PO2	PO3	PO4	PO5
CO1	3	3	3	3	2	3	3	3	3	2
CO2	3	3	3	3	3	3	3	3	2	3
CO3	3	3	3	3	3	3	2	3	3	3
CO4	3	3	3	3	2	3	3	3	3	2
CO5	3	3	2	3	2	3	3	3	2	3

"1" – Slight (Low) Correlation – "2" – Moderate (Medium) Correlation – "3" – Substantial (High) Correlation – "-" indicates there is no correlation.

**CRITERION VI****LESSON PLAN****TEXT BOOKS:**

S.No	AUTHOR	TITLE OF THE BOOK	PUBLISHER/ EDITION	YEAR OF PUBLICATION
1.	Prasad, L.M	Principles and Practices of Management	10 <sup>th</sup> Edition, Sultan Chand and Sons	2021
2.	Ramasamy, T	Principles of Management	2 <sup>nd</sup> Edition, Himalaya Publishing House.	2017
3	Stephen A. Robbins & David A. Decenzo & Mary Coulter	Fundamentals of Management	7 <sup>th</sup> Edition, Pearson Education	2011

**REFERENCE BOOKS:**

S.No	AUTHOR	TITLE OF THE BOOK	PUBLISHER/EDITION	YEAR OF PUBLICATION
1.	Gupta, C.B.	Principles of Management	3 <sup>rd</sup> Edition, Sultan Chand & Sons.	2012
2.	Dinkar and Pagare	Business Management	6 <sup>th</sup> Edition, Prentice Hall of India.	2018
3.	Tripathi, P.C. & Reddy, P.N.	Principles of Management	7 <sup>th</sup> Edition, Mc Graw Hill Education.	2021

**WEB RESOURCES:**

1. <https://vtechworks.lib.vt.edu/bitstream/handle/10919/70961/Fundamentals%20of%20Business%20%28complete%29.pdf>
2. <https://studyresearch.in/2018/03/11/case-studies-principles-of-management/>
3. [https://www.researchgate.net/publication/338967220\\_INTRODUCTION\\_TO\\_BUSINESS\\_MANAGEMENT](https://www.researchgate.net/publication/338967220_INTRODUCTION_TO_BUSINESS_MANAGEMENT)
4. <https://www.just.edu.jo/~mqais/CIS151.html>
5. <https://blog.hubspot.com/marketing/management-principles>
6. <https://open.umn.edu/opentextbooks/textbooks/693>

Signature			
Name & Designation	Dr.J.Tamilselvi Faculty	Dr.J.Tamilselvi HOD	Dr.N.Savithri Dean of Arts

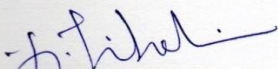
**CRITERION VI****LESSON PLAN****Semester : ODD****2023-2024****LESSON PLAN****UNIT – I**

Introduction to Business - Management – Meaning – Definition – Nature– Importance  
 –Scope and Functions – Role and Functions of a Manager– Levels of Management –  
 Contribution of F.W. Taylor, Henry Fayol.

S.No	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to students	Proposed date of completion	Actual date of completion
1	Introduction to Business	Power Point Presentation	1	K1	CO1			19.06.2023
2	Management, Meaning, Definition and Nature	Power Point Presentation	1	K1	CO2			20.06.2023
3	Scope and Functions of management	Power Point Presentation	1	K2	CO1			21.06.2023
4	Role and Functions of a Manager	<a href="https://studyresearch.in/2018/03/11/case-studies-principles-of-management/">https://studyresearch.in/2018/03/11/case-studies-principles-of-management/</a>	2	K2 K3	CO4 CO5	Test and Assignment	19.06.2023 to 30.06.2023	22.06.2023 23.06.2023
5	Levels of Management	Power Point Presentation	2	K4	CO2			27.06.2023 29.06.2023
	Contribution of F.W. Taylor, Henry Fayol	Power Point Presentation	1	K4	CO5			30.06.2023

**Remarks:**

TEST 1 – 27.06.2023

  
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**CRITERION VI****LESSON PLAN**

Semester : ODD

2023-2024

**LESSON PLAN****UNIT – II**

Planning – Meaning – Definition – Nature – Importance – Process – Types of plans –  
Steps in Planning– Objectives– Policies– Procedures and Methods–Types of Policies–  
Decision making – Meaning–Process of Decision making– Types of decision making .

S.No	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to students	Proposed date of completion	Actual date of completion
1	Planning, Meaning, Definition and Nature	Power Point Presentation	1	K1	CO1	Test and Assignment	01.07.2023 to 18.07.2023	01.07.2023
2	Importance and Process	Power Point Presentation	1	K3	CO2			04.07.2023
3	Types of plans	Power Point Presentation	2	K2 K3	CO2 CO3			05.07.2023 06.07.2023
4	Steps in Planning, Objectives and Policies	Power Point Presentation	1	K3 K4	CO2 CO3			08.07.2023 11.07.2023
5	Procedures and Methods and Types of Policies	<a href="https://www.just.edu.jo/~mqais/CIS151.html">https://www.just.edu.jo/~mqais/CIS151.html</a>	2	K2 K4	CO2 CO3			12.07.2023 15.07.2023
6	Decision making, Meaning and Process of Decision making	Power Point Presentation	2	K3 K4	CO2 CO3			17.07.2023 18.07.2023

**Remarks:**

UNIT TEST I – 24.07.2023

  
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Signature of the HoD

**CRITERION VI****LESSON PLAN**

Semester : ODD

2023-2024

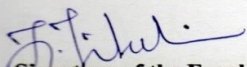
**LESSON PLAN****UNIT III**

Organizing- Meaning - Definition- Types of Organizations - Organization Structure - Departmentalization - Meaning- Need and Importance-Authority - Difference between Authority and Power-Delegation - Meaning -Types and Process of delegation - Decentralization - Advantages and Disadvantages of Decentralization.

S.No	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to students	Proposed date of completion	Actual date of completion
1	Organizing, Meaning and Definition	Chalk and Talk	1	K1 K2	CO1 CO2	Test, Assignment & Seminar	26.07.2023 to 19.08.2023	26.07.2023 27.07.2023
2	Types of Organizations and Organization Structure	Chalk and Talk	1	K2 K3	CO2 CO3			28.07.2023 29.07.2023
3	Departmentalization, Meaning, Need and Importance	PowerPoint Presentation	1	K2 K3	CO2 CO3			31.07.2023 07.08.2023
4	Authority , Difference between Authority and Power	Chalk and Talk	1	K2 K3	CO2 CO3			08.08.2023 09.08.2023
5	Delegation, Meaning and Types	Power Point Presentation	1	K2 K3	CO2 CO3			10.08.2023 11.08.2023
6	Process of delegation	Power Point Presentation	1	K2 K3	CO2 CO3			14.08.2023 16.08.2023
7	Decentralization	<a href="https://gacbe.ac.in/pdf/e-material/18BCO62C-U3.pdf">https://gacbe.ac.in/pdf/e-material/18BCO62C-U3.pdf</a>	1	K2 K3	CO2 CO3			17.08.2023
8	Advantages and Disadvantages of Decentralization	Chalk and Talk	1	K2 K3	CO2 CO3			18.08.2023

**Remarks:**

CIA I - 23.08.2023

  
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**CRITERION VI****LESSON PLAN**

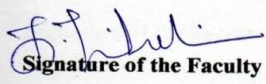
**Semester : ODD** **2023-2024**


**LESSON PLAN**

**UNIT IV**  
Direction – Meaning – Definition – Nature and Purpose. Co- ordination – Meaning– Need, Type and Techniques and requisites for excellent Co-ordination – Controlling – Meaning and Importance – Control Process.

No	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to students	Proposed date of completion	Actual date of completion
1	Direction, Meaning and Definition	Power Point Presentation	1	K1 K2	CO1	Assignment	30.08.2023 to 25.09.2023	30.08.2023 01.09.2023
2	Nature and Purpose of directing	Power Point Presentation	2	K2 K4	CO2			04.09.2023 07.09.2023
3	Co- ordination, Meaning, Need and Type	Power Point Presentation	2	K3 K4	CO2 CO3			08.09.2023 11.09.2023 12.09.2023
4	Techniques and requisites for excellent Co-ordination	Power Point Presentation	2	K3 K4	CO2 CO3			13.09.2023 14.09.2023 15.09.2023
5	Controlling, Meaning and Importance	Power Point Presentation	2	K2 K4	CO2 CO5			19.09.2023 20.09.2023
6	Control Process	<a href="https://open.umn.edu/opentextbooks/textbooks/693">https://open.umn.edu/opentextbooks/textbooks/693</a>	2	K2 K4	CO2 CO5			21.09.2023 22.09.2023 25.09.2023

**Remarks:**  
TEST – 19.09.2023

  
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**CRITERION VI****LESSON PLAN**

Semester : ODD

2023-2024

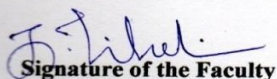
**LESSON PLAN****UNIT V**

Definition of Business ethics – Types of Ethical issues –Role and importance of Business Ethics and Values in Business – Ethics internal – Ethics External–Environment Protection – Responsibilities of Business.

No	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to students	Proposed date of completion	Actual date of completion
1	Definition of Business ethics and Types of Ethical issues	Power Point Presentation	2	K1 K2	CO1	Assignment	26.09.2023 to 06.10.2023	26.09.2023 27.09.2023
2	Role and importance of Business Ethics and Values in Business	Power Point Presentation	2	K3	CO2			28.09.2023 29.09.2023
3	Ethics internal, Ethics External and Environment Protection	Power Point Presentation	1	K4	CO3			03.10.2023
4	Responsibilities of Business.	Power Point Presentation	2	K3 K4	CO2 CO5			04.10.2023 06.10.2023

**Remarks:**

CIA II – 12.10.2023

  
Signature of the Faculty

  
Signature of the HOD



CRITERION VI

LESSON PLAN

DEPARTMENT OF COMPUTER SCIENCE

LESSON PLAN

Department	PG & Research Department of Computer Science		
Degree & Programme	II M.Sc. Computer Science		
Course Title	CLOUD COMPUTING	Course Code	22PCS3CC7
Faculty Name	Ms. S. UDHAYA PRIYA	Faculty Code	01FBCA0030
Total hours per week	6	Semester	III
Student strength	29	Course Starting Date	14.06.2023

**OBJECTIVES:**

- To provide an in-depth and comprehensive knowledge of the Cloud Computing fundamental issues, technologies, applications and implementations.
- To motivate students to do programming and experiment with the various cloud computing environments
- To introduce about the Cloud Standards

**COURSE OUTCOME:**

On the successful completion of the course, students will be able to,

CO NUMBER	CO STATEMENT	KNOWLEDGE LEVEL
CO1	Understand and discuss the fundamentals of various cloud models	K1, K2
CO2	Determine the applications and the architectures of cloud	K3, K5
CO3	Identify and Examine services and appropriate virtualization concepts	K3, K4
CO4	Explore and recommend cloud solutions for mobile cloud and mobile web services	K4, K5
CO5	Justify and Enhance real time cloud applications to its appropriate environment	K5, K6





CRITERION VI

LESSON PLAN

MAPPING WITH PROGRAMME OUTCOMES:

COs/POs	PSO1	PSO2	PSO3	PSO4	PSO5	PO1	PO2	PO3	PO4	PO5
CO1	3	3	2	3	2	3	3	2	3	2
CO2	3	3	2	3	2	3	3	2	3	2
CO3	3	3	2	3	3	3	3	2	3	3
CO4	3	3	2	3	3	3	3	2	3	3
CO5	3	3	3	3	3	3	3	3	3	3

"1" – Slight (Low) Correlation      "2" – Moderate (Medium) Correlation  
".." indicates there is no correlation      "3" – Substantial (High) Correlation

TEXT BOOKS:

S.No	Authors Name	Title of the Book	Publishers Name	Year of Publication
1	Barrie Sosinsky	Cloud Computing Bible	Wiley Publishing Inc.	2011
2	Kai Hwang, Geoffrey C.Foxand Jack J.Dongarra	Distributed and Cloud computing: From parallel processing to the Internet of Things	Morgan Kaufmann	2013

REFERENCE BOOKS:

S. No.	Authors Name	Title of the Book	Publishers Name	Year of Publication
1	Michael Miller	Cloud Computing	Pearson Education Inc.	7 <sup>th</sup> Edition 2012
2	Rajkumar Buyya & Co.	Cloud Computing Principles and Paradigms	John Wiley & Sons Publications	2011

Signature			
Name & Designation	S. Udhaya Priya Faculty	N. Girubagari HOD(i/c)	Dr. V. Sinthu Janita Prakash Dean



**CRITERION VI**

**LESSON PLAN**

Semester: ODD

2023-2024

LESSON PLAN

**UNIT I:**

**Defining Cloud Computing- Cloud Types: The NIST model - The Cloud Cube Model -Deployment models- Service models - Examining the Characteristics of Cloud Computing: Paradigm shift- Benefits of cloud computing - Disadvantages of cloud computing – Assessing the Value Proposition: Measuring the Cloud’s value: The laws of cloudonomics - Cloud computing obstacles - Behavioral factors relating to cloud adoption – Measuring cloud computing costs – Avoiding Capital Expenditures – Computing the Total Cost of Ownership – Specifying Service Level Agreements.**

S. No.	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to the students	Proposed date of completion	Actual date of completion
1	Defining Cloud Computing- Cloud Types	Chalk and Talk with Presentation	2	K1 K2	CO1	Class Test	14.06.2023 - 13.07.2023	14.06.2023
2	The NIST model The Cloud Cube Model, Deployment models, Service models	Chalk and Talk with Presentation	3	K1 K2	CO1			17.06.2023 19.06.2023 20.06.2023
3	Examining the Characteristics of Cloud Computing: Paradigm shift- Benefits of cloud computing - Disadvantages of cloud computing	<a href="https://spanning.com/blog/cloud-computing-benefits-disadvantages-types/">https://spanning.com/blog/cloud-computing-benefits-disadvantages-types/</a>	3	K1 K2 K3 K5	CO1 CO2			21.06.2023 22.06.2023
4	Assessing the Value Proposition: Measuring the Cloud’s value: The laws of cloudonomics	Chalk and Talk with Presentation	2	K1 K2	CO1			26.06.2023 27.06.2023
5	Cloud computing obstacles, Behavioral factors relating to cloud adoption	Chalk and Talk with Presentation	2	K1 K2 K3 K5	CO1 CO2			28.06.2023 03.07.2023
6	Measuring cloud computing costs – Avoiding Capital Expenditures	Chalk and Talk with Presentation	2	K1 K2	CO1			06.07.2023 08.07.2023
7	Computing the Total Cost of Ownership – Specifying Service Level Agreements.	Chalk and Talk with Presentation	2	K1 K2	CO1			10.07.2023 11.07.2023

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CRITERION VI

LESSON PLAN

UNIT II

Understanding Cloud Architecture: Exploring the Cloud Computing Stack-Composability- Infrastructure - Platforms - Virtual Appliances - Communication Protocols -Applications - Connecting to the Cloud. Understanding Services and Applications by Type: Defining Infrastructure as aService (IaaS) - Defining Platform as a Service (PaaS) - Defining Software as a Service (SaaS) -SaaS characteristics- Salesforce.com and CRM SaaS - Defining Identity as a Service (IDaaS).

Table with 9 columns: S. No., Topic covered, Teaching pedagogy, No. of Hours Required, Cognitive Level, COs, Activity given to the students, Proposed date of completion, Actual date of completion. Contains 7 rows of lesson plan details.

Remarks: UNIT TEST 1 - 28.07.2023

S. U. S. H. Signature of the Faculty

N. Geetha 27/07/23 Signature of the HOD i/c



**CRITERION VI**

**LESSON PLAN**

**UNIT III**  
**Understanding Abstraction and Virtualization: Using Virtualization Technologies – Load Balancing and Virtualization: Advanced load balancing - The Google cloud – Understanding Hypervisors: Virtualmachine types-VMware vSphere-Understanding Machine Imaging –Porting Applications: The Simple Cloud API-AppZero Virtual Application Appliance. Capacity Planning-Load testing-Resource ceilings - Network Capacity - Scaling.**

S. No.	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to the students	Proposed date of completion	Actual date of completion
1	Using Virtualization Technologies	Chalk and Talk with Presentation	3	K1 K2 K3 K4 K5	CO1 CO2 CO3	MCQ GD	10.08.2023 - 21.08.2023	10.08.2023 11.08.2023
2	Load Balancing and Virtualization: Advanced load balancing	<a href="https://www.geeksforgeeks.org/load-balancing-in-cloud-computing/">https://www.geeksforgeeks.org/load-balancing-in-cloud-computing/</a>	3	K1 K2 K3 K4 K5	CO1 CO2 CO3			12.08.2023 14.08.2023
3	The Google cloud – Understanding Hypervisors	Chalk and Talk with Presentation	2	K3 K4 K5	CO2 CO3			16.08.2023
4	Virtual machine types-VMware vSphere-Understanding Machine Imaging	Chalk and Talk with Presentation	3	K3 K4 K5	CO2 CO3			17.08.2023
5	Porting Applications: The Simple Cloud API	Chalk and Talk with Presentation	2	K3 K4 K5	CO2 CO3			18.08.2023
6	AppZero Virtual Application Appliance. Capacity Planning	Chalk and Talk with Presentation	3	K3 K4 K5	CO2 CO3			19.08.2023
7	Load testing-Resource ceilings	Chalk and Talk with Presentation	2	K3 K4 K5	CO2 CO3			21.08.2023
8	Network Capacity - Scaling.	Chalk and Talk with Presentation	2	K3 K4 K5	CO2 CO3			23.08.2023

Remarks: CIA – I – 24.08.2023

Signature of the Faculty: *S. Sudha*

Signature of the HOD: *N. Geeta*

**CRITERION VI****LESSON PLAN**

**UNIT IV**

**Understanding Service Oriented Architecture:**Introducing Service Oriented Architecture – Defining SOA Communications – Managing and Monitoring SOA. **Using the Mobile Cloud:** Working with Mobile Devices – Defining the Mobile Market–UsingSmartphones with the Cloud. **Working with Mobile Web Services:** Understanding Service Types– Performing Service Discovery – Using SMS – Defining WAP and other Protocols–Performing Synchronization

S. No.	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to the students	Proposed date of completion	Actual date of completion
1	Introducing Service Oriented Architecture	Chalk and Talk with Presentation	2	K3 K4 K5	CO3 CO4	GD Seminar	29.08.2023 - 21.09.2023	29.08.2023
2	Defining SOA communications	Chalk and Talk with Presentation	2	K3 K4 K5	CO3 CO4			31.08.2023
3	Managing and Monitoring SOA	Chalk and Talk with Presentation	1	K3 K4	CO2 CO3			06.09.2023
4	Working with Mobile Devices	Chalk and Talk with Presentation	2	K3 K4 K5	CO3 CO4			07.09.2023
5	Defining the Mobile Market	Chalk and Talk with Presentation	1	K3 K4 K5	CO3 CO4			08.09.2023
6	Using Smartphones with the Cloud	<a href="https://www.educba.com/mobile-cloud-computing/">https://www.educba.com/mobile-cloud-computing/</a>	2	K3 K4 K5	CO3 CO4			11.09.2023
7	Android, iPhone, App Store	Chalk and Talk with Presentation	2	K4 K5	CO4			12.09.2023
8	Blueberry, Symbian,	Chalk and Talk with Presentation	1	K3 K4 K5	CO3 CO4			14.09.2023
9	Understanding Service Types	Chalk and Talk with Presentation	1	K3 K4 K5	CO3 CO4			15.09.2023
10	Performing Service Discovery	Chalk and Talk with Presentation	1	K3 K4 K5	CO3 CO4			19.09.2023



CRITERION VI

LESSON PLAN

11	Using SMS	Chalk and Talk with Presentation	2	K3 K4 K5	CO3 CO4		20.09.2023
12	Defining WAP and other Protocols	<a href="https://www.techtarget.com/search/mobilecomputing/definition/WAP">https://www.techtarget.com/search/mobilecomputing/definition/WAP</a>	2	K3 K4 K5	CO3 CO4		20.09.2023
13	Performing Synchronization	Chalk and Talk with Presentation	1	K3 K4 K5	CO2 CO3 CO4		23.09.2023

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**CRITERION VI**

**LESSON PLAN**

**UNIT V**  
**Cloud Programming and Software Environments: Parallel and Distributed Programming Paradigms – Programming support of Google App Engine – Programming on Amazon AWS and Microsoft Azure – Ubiquitous Clouds and the Internet of Things: Cloud Trends in Supporting Ubiquitous Computing.**

S. No	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	Cos	Activity given to the students	Proposed date of completion	Actual date of completion
1	Parallel and Distributed Programming Paradigms	Chalk and Talk with Presentation	2	K1 K2 K3 K4	CO1 CO3	Seminar	23.09.2023 - 07.10.2023	25.09.2023
2	MapReduce, Hadoop	<a href="https://nptel.ac.in/courses/106104189">https://nptel.ac.in/courses/106104189</a>	2	K3 K4 K5	CO2 CO3			26.09.2023
3	Dryad and DryadLINQ	Chalk and Talk with Presentation	1	K3 K4 K5	CO2 CO3			26.09.2023
4	Programming support of Google App Engine	<a href="https://www.ques10.com/p/4064/programming-support-for-google-apps-engine-2/">https://www.ques10.com/p/4064/programming-support-for-google-apps-engine-2/</a>	2	K3 K4 K5	CO2 CO3 CO4			27.09.2023
5	GFS, BigTable	Chalk and Talk with Presentation	1	K2 K3	CO2 CO3			30.09.2023
6	Programming on Amazon AWS	Chalk and Talk with Presentation	1	K2 K3	CO1 CO3			03.10.2023
7	Programming on Microsoft Azure	Chalk and Talk	1	K2 K3	CO1 CO3			04.10.2023
8	Amazon S3, EBS	Chalk and Talk with Presentation	1	K3 K4 K5 K6	CO3 CO5			04.10.2023
9	Cloud Trends in Supporting Ubiquitous Computing, Use of HPC/HTC	Chalk and Talk with Presentation	2	K3 K4 K5	CO2 CO3			05.10.2023
10	Cloud Mashups for Agility and Scalability	<a href="https://bluexp.netapp.com/blog/cloud-scalability-and-agility-for-shared-file-storage">https://bluexp.netapp.com/blog/cloud-scalability-and-agility-for-shared-file-storage</a>	1	K3 K4 K5	CO2 CO3			06.10.2023
11	Cloudlets for Mobile Cloud Computing	Chalk and Talk with Presentation	1	K3 K4 K5	CO3 CO4			07.10.2023

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Signature of the Faculty

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Signature of the HOD: IC

**CRITERION VI****LESSON PLAN****DEPARTMENT OF COMMERCE**LESSON PLAN

<b>Department</b>	PG & RESEARCH DEPARTMENT OF COMMERCE		
<b>Degree &amp; Programme</b>	III B Com A		
<b>Course Title</b>	ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT	<b>Course Code</b>	21UCO5CC11
<b>Faculty Name</b>	Dr.S.SUDHA	<b>Faculty Code</b>	F01CO015
<b>Total hours per week</b>	4	<b>Semester</b>	V
<b>Student Strength</b>	60	<b>Course Starting Date</b>	14.06.2023

**Course Objective**

- To enrich the students towards the knowledge of entrepreneurial skills.
- To understand the approaches to attain the goals of the business.
- To describe the challenges of entrepreneurship especially for a small business.

**Course Outcome and Cognitive Level Mapping**

CO Number	CO Statement	Cognitive Level
CO1	On the successful completion of the course, students will be able to Tell the basic concepts of Entrepreneurship Development	K1
CO2	Outline a business plan that can be used to run a new business enterprise.	K2
CO3	Identify the funding agencies and various financial institutions involved in the development of SSI	K3
CO4	Analyse the role of government organizing Entrepreneurship Development Programme.	K4

**Mapping of CO with PO and PSO**

COs	PO1	PO2	PO3	PO4	PO5
CO1	M	S	S	S	S
CO2	S	S	M	M	M
CO3	M	M	M	M	M
CO4	M	M	M	M	M

S – Strong; M – Medium; L - Low





CRITERION VI

LESSON PLAN


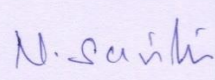
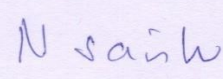
Book

S.No.	Authors	Title	Publishers	Year of Publication
1.	Dr.S.S. Khanka	Entrepreneurial Development	S.Chand & Company (Pvt.) Ltd	2014

Reference Book

S.No	Authors	Title	Publishers	Year of Publication
1.	Dr. V. Sujatha, , Dr. V. Gomathi, Dr. N. Savithri & Dr. M.A. Parveen Banu	Entrepreneurial Development	Cauvery Publications	2014
2.	Srinivasan N.P.	Entrepreneurial Development	Margham Publications	2014
3.	Saravanel	Entrepreneurial Development	Himalaya Publications	2015
4.	C.S.V Murthy	Entrepreneurial Development	Himalaya Publishing House	2015

Signature			
Name & Designation	Dr. S. SUDHA Staff in Charge	Dr.N.Savithri HOD	Dr.N.Savithri Dean of Arts

**CRITERION VI****LESSON PLAN**

Semester : ODD

2023-2024

**LESSON PLAN****UNIT – I Introduction to Entrepreneurship**

Meaning of Entrepreneur - Evolution of the concept - Functions of an Entrepreneur - Types of Entrepreneur - Qualities of an Entrepreneur – Concept of Entrepreneurship - Evolution of Entrepreneurship - Development of Entrepreneurship - Entrepreneurial Culture - Stages in entrepreneurial process - Factors influencing Entrepreneurship – Women Entrepreneurs – Rural Entrepreneurs.

S. No	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to students	Proposed date of completion	Actual date of completion
1	Introduction to Entrepreneur	Power Point Presentation	1	K1	CO1	Test and Assignment	17.06.2023 to 28.06.2023	17.06.2023
2	Evolution, Needs, Functions, Types of Entrepreneurship	Power Point Presentation	2	K2	CO2			19.06.2023 20.06.2023
3	Qualities, Concept of entrepreneurship,	Power Point Presentation	2	K3	CO3			21.06.2023
4	Development of entrepreneurship,	Power Point Presentation	1	K3	CO3			21.06.2023
5	Entrepreneurial Culture, Stages in Entrepreneurial Process	Power Point Presentation	2	K4	CO4			22.06.2023 23.06.2023
6	Factors influencing entrepreneurship development	Power Point Presentation	1	K2 K3	CO2 CO3			24.06.2023
7	Women entrepreneur, problems faced by women entrepreneur.	Power Point Presentation	2	K3	CO3			26.06.2023 27.06.2023
8	Rural Entrepreneurs	Power Point Presentation	1	K4	CO4			28.06.2023

**Remarks:**

Class Test Conducted

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Signature of the HOD

**CRITERION VI****LESSON PLAN**

Semester : ODD

2023-2024

**LESSON PLAN****UNIT – II MSME's and Support Institutions**

Government Schemes and Women Entrepreneurship – Importance of MSME for Economic Growth – MSME – Definition – Role of Government Organizations in Entrepreneurship Development – DIC – Khadi and Village Industries Commission – NSIC – NABARD, SICVI, SFC, SDC, EDII, EPCCB. Industrial Estates – Government Schemes – Prime Minister Employment Generation Programme.

S. No	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to students	Proposed date of completion	Actual date of completion
1	Government Schemes for Entrepreneurial Development	Power Point Presentation	1	K3	CO3	Test and Assignment	29.06.2023 to 12.07.2023	29.06.2023
2	Women Entrepreneurship	Power Point Presentation	1	K1 K2	CO1 CO2			30.06.2023
3	Importance of MSME for Economic Growth	Power Point Presentation	1	K3 K4	CO2 CO3			01.07.2023
4	Role of Government Organisations in Entrepreneurship Development	Power Point Presentation	1	K3 K4	CO2 CO3			03.07.2023
5	DIC, Khadi and Village Industries Commission	Power Point Presentation	2	K3 K4	CO2 CO3			05.07.2023 06.07.2023
6	NSIC, NABARD	Power Point Presentation	2	K3 K4	CO3 CO4			08.07.2023 10.07.2023
7	SFC, SDC, EDII, EPCCB	Power Point Presentation	2	K3	CO3			12.07.2023 13.07.2023
8	Industrial Estates	Power Point Presentation	1	K3	CO3			14.07.2023
9	Prime Minister Employment Development Programme	Power Point Presentation	1	K3 K4	CO3 CO4			15.07.2023

**Remarks:**

Unit Test Conducted

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CRITERION VI

LESSON PLAN

Semester : ODD

2023-2024

LESSON PLAN

UNIT III Development of Business Ideas

Project Formulation - Business idea Generation Techniques - Identification of business opportunities Feasibility Study - Marketing, Finance, Technology & Legal formalities - Preparation of Project Report - Tools of Appraisal.

S. No	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	Cos	Activity given to students	Proposed date of completion	Actual date of completion	
1	Project formulation, need and characteristics	Power Point Presentation	2	K1	CO1	Assignment	18.07.2023 to 12.08.2023	18.07.2023	
				K2	CO2			19.07.2023	
K3	GO3								
2	Business idea generation Techniques	Power Point Presentation	2	K3	CO3				20.07.2023
									21.07.2023
3	Project identification, process and Opportunities	Power Point Presentation	2	K3	CO3				22.07.2023
									26.07.2023
4	Feasibility analysis and network analysis	Power Point Presentation	1	K2	CO2		27.07.2023		
				K3	CO3				
5	Marketing, Finance, Technology and Legal Formalities	Power Point Presentation	2	K3	CO3		01.08.2023		
				K4	CO4		08.08.2023		
6	Preparation of Project report	Power Point Presentation	2	K2	CO2		09.08.2023		
				K3	CO3		10.08.2023		
7	Tools of appraisal	Power Point Presentation	1	K3	CO3		12.08.2023		

Remarks: CIA I Conducted

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**CRITERION VI****LESSON PLAN**

Semester : ODD

2023-2024

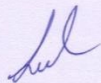
**LESSON PLAN****UNIT IV Entrepreneurial Development Programme**

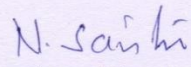
Entrepreneurial Development Programme (EDP) – Role, relevance and achievements – Role of Government in organizing EDPs - Critical evaluation..

S. No	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to students	Proposed date of completion	Actual date of completion
1	Entrepreneurship development Programme	Power Point Presentation	1	K1 K2	CO1 CO2	Assignment	16.08.2023 to 09.09.2023	16.08.2023
2	Evolution of EDP	Power Point Presentation	1	K2	CO2			17.08.2023
3	Objective, Features and Importance of EDP	Power Point Presentation	2	K3	CO3			18.08.2023 19.08.2023
4	Role and Relevance of EDP	Power Point Presentation	2	K3 K4	CO3 CO4			30.08.2023 31.08.2023
5	Achievements of EDP	Power Point Presentation	1	K3	CO3			01.09.2023
5	Benefits of EDP	Power Point Presentation	1	K3 K4	CO2 CO3			04.09.2023
6	Role of Government in organising EDPs	Power Point Presentation	2	K4	CO4			05.09.2023 06.09.2023
7	Critical Evaluation	Power Point Presentation	2	K3 K4	CO3 CO4	08.09.2023 09.09.2023		

**Remarks:**

Assignment Given

  
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CRITERION VI

LESSON PLAN

Semester : ODD

2023-2024

LESSON PLAN

UNIT V Formulation of Project Report

Introduction –Contents of Project Report –Project Description –Market Survey Fund Requirement Registration–Source of Funds –Modern Sources of funds.

S.No	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to students	Proposed date of completion	Actual date of completion
1	Formulation of Project Report	Power Point Presentation	2	K1 K2 K3	CO1	Test and Assignment	19.09.2023 to 05.10.2023	19.09.2023 21.09.2023
2	Content of Project Report	Power Point Presentation	2	K3	CO2			23.09.2023 25.09.2023
3	Project Description	Power Point Presentation	1	K4	CO4			26.09.2023
4	Market Survey fund requirement registration	Power Point Presentation	2	K3 K4	CO3 CO4			27.09.2023 28.09.2023
5	Need for Market Survey	Power Point Presentation	1	K3	CO3			29.09.2023
6	Sources of Funds	Power Point Presentation	2	K3 K4	CO3 K4			30.09.2023 03.10.2023
7	Modern Sources of funds	Power Point Presentation	2	K3	CO3			04.10.2023 05.10.2023

Remarks:

CIA II Conducted

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**CRITERION VI****LESSON PLAN****LESSON PLAN**

<b>Degree</b>	III B.Com CA	<b>Department</b>	Commerce
<b>Course Title</b>	Accounting for Managerial Decisions	<b>Course Code</b>	19UCC5CC8
<b>Faculty Name</b>	Dr.P. KAVITHA	<b>Faculty Code</b>	F01CO017
<b>Student Strength</b>	65	<b>Semester</b>	V
<b>Total Hours Per Week Given in Syllabus</b>	5	<b>Course Starting Date</b>	14.06.2023

**Course Objective**

- To understand the concepts and techniques of Management Accounting.
- To enhance a manager's ability to make effective Economic Decisions
- To understand and analyze accounting information for Decision -Making, Planning and Control.

**Course Outcome**

On the successful completion of the course, the students will be able to

CO No.	CO Statement	Knowledge Level
CO1	List out the concepts of Management Accounting	K1
CO2	Infer on the financial statements and develop knowledge to present a good Management Report.	K2
CO3	Use cost-volume-profit analysis in Decision Making	K3
CO4	Analyse and interpret the performance of the firm through preparation of Financial Statements.	K4

**Mapping with Programme Outcomes**

COs	PO1	PO2	PO3	PO4	PO5
CO1	S	S	S	S	S
CO2	S	S	S	S	S
CO3	S	S	S	S	S
CO4	S	S	S	S	S

S-Strong; M-Medium; L-Low



CRITERION VI

LESSON PLAN

Text Books:

S.No.	Authors	Title	Publishers	Year of Publication
1.	M.N.Arora	Cost and Management Accounting	Himalaya Publishing House	2015
2.	S.N.Maheshwari	Advanced Cost Accounting	Sultan Chand & Sons	2015
3.	Ramachandran & Srinivasan	Management Accounting	Sri Ram Publications	2015
4.	Atrill, Peter & Eddie McLaney	Management Accounting for Decision Makers	Prentice Hall	2014
5.	Khan and Jain	Management Accounting	Tata McGraw Hill	2015

Reference Book

S.No	Authors	Title	Publishers	Year of Publication
1.	Ray Proctor	Managerial Accounting for Business Decisions	Pearson Publications	2016
2.	R.S.N.Pillai & Bhagavati	Management Accounting	S. Chand Publications	2015

COs	PO1	PO2	PO3	PO4	PO5
CO1	2	2	2	2	2
CO2	2	2	2	2	2
CO3	2	2	2	2	2
CO4	2	2	2	2	2





CRITERION VI

LESSON PLAN

LESSON PLAN

Unit –I IntroductiontoManagementAccounting&RatioAnalysis

Management Accounting: Meaning – Definition – Objectives – Nature and Scope – Role of Management Accountant – Relationship between Financial Accounting and Management Accounting, Relationship between Cost Accounting and Management Accounting. Analysis of Financial Statements: Types of Analysis – Methods of Financial Analysis – Problems on Comparative Statement analysis – Common Size Statement analysis, Trend Analysis and Ratio Analysis (Liquidity, Solvency, Profitability, Activity Turnover and Capital Structure).

Text Book:

- 1. Ramachandran&Srinivasan, ManagementAccounting, SriRamPublications, 2015

Table with 9 columns: S. No, Topic covered, Teaching pedagogy, No. of Hours Required, Cognitive Level, COs, Activity Given to the Students, Proposed date of completion, Actual date of completion. Rows 1-7 detail lesson plans for Management Accounting topics.



**CRITERION VI**

**LESSON PLAN**

8.	Ratio Analysis (Liquidity, Solvency, Profitability, Activity/ Turnover and Capital Structure).	Class Room Teaching	5	K4	CO4		26.06.2023 to 30.06.2023
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No.	Topic	Teaching Method	No. of Hours Required	Cognitive Level	COs	Activity Given to the Students	Proposed Date of Completion
1.	Accounting Meaning - objectives	PPT & Class Room Teaching	1	K1	CO1		14.06.2023
2.	Accountant - Role of Management	PPT & Class Room Teaching	1	K1	CO1		12.06.2023
3.	Accounting Relationship between Financial and Management Accounting	Class Room Teaching	1	K2	CO3		19.06.2023
4.	Accounting Methods - Types of Financial Statements	Class Room Teaching	1	K2	CO3	Unit given to Assign 14.06.2023 to 30.06.2023	30.06.2023
5.	Accounting Statement - Comparative	Class Room Teaching	2	K2	CO3	MCQ Test	21.06.2023
6.	Accounting Statement - Common Size	Class Room Teaching	1	K3	CO3		21.06.2023
7.	Accounting Statement - Trend Analysis	Class Room Teaching	2	K4	CO4		23.06.2023

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**CRITERION VI****LESSON PLAN****LESSON PLAN****Unit-II FundFlow&CashFlowAnalysis**

Meaning and Concept of Fund – Fund Flow Statement – Uses and Limitations of Fund Flow Statement – Differences between Cash Flow Statement and Fund Flow Statement – Procedure for preparation of Fund Flow Statement – Statement of changes in Working Capital – Statement of Funds from Operations – Statement of Sources and Applications of Funds – Problems.

Meaning and Definition of Cash Flow Statement – Concept of Cash and Cash Equivalents – Uses of Cash Flow Statement – Limitations of Cash Flow Statement – Provisions of AS 3 – Procedure for preparation of Cash Flow Statement – Cash Flow from Operating and Financing Activities – Preparation of Cash Flow Statement according to AS 3.

**Text Book:**

1. Ramachandran & Srinivasan, Management Accounting, Sri Ram Publications, 2015

S. No	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity Given to the Students	Proposed date of completion	Actual date of completion
1.	Meaning and Concept of Fund – Fund Flow Statement	PPT & Class Room Teaching	1	K1	CO1	MCQ Test, Assignment given, Unit Test	03.07.2023 to 26.07.2023	03.07.2023
2.	Uses and Limitations of Fund Flow Statement – Differences between Cash Flow Statement and Fund Flow Statement	PPT & Class Room Teaching	2	K2	CO2			04.07.2023 06.07.2023
3.	Procedure for preparation of Fund Flow Statement – Statement of changes in Working Capital	Class Room Teaching	2	K2	CO2			07.07.2023 08.07.2023
4.	Statement of Funds from Operations – Statement of Sources and Applications of Funds – Problems.	Class Room Teaching	2	K3	CO3			11.07.2023 12.07.2023

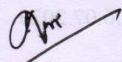
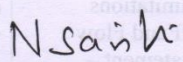


CRITERION VI

LESSON PLAN

5.	Meaning and Definition of Cash Flow Statement – Concept of Cash and Cash Equivalents	Class Room Teaching	1	K1	CO1		14.07.2023
6.	Provisions of AS 3 – Procedure for preparation of Cash Flow Statement – Cash Flow from Operating and Financing Activities	Class Room Teaching	2	K3	CO3		17.07.2023 18.07.2023
7.	Preparation of Cash Flow Statement according to AS 3.	Class Room Teaching	3	K4	CO4		20.07.2023 21.07.2023 22.07.2023
8.	Revision		2				25.07.2023 26.07.2023

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**CRITERION VI****LESSON PLAN****LESSON PLAN****Unit-III Budget and Budgetary Control**

Budget and Budgetary control – Meaning – Advantages – Preparation of Sales, Production, Production Cost, Purchase, Overhead Cost, Cash and Flexible Budgets.

**Text Book:**

1. Ramachandran&Srinivasan, Management Accounting, SriRamPublications, 2015

S.No	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity Given to the Students	Proposed date of completion	Actual date of completion
1.	Budget and Budgetary control – Meaning – Advantages	PPT & Class Room Teaching	1	K1	CO1			27.07.2023
2.	Preparation of Sales Budget	Class Room Teaching	2	K2	CO2			28.07.2023 29.07.2023
3.	Production, Cash Budget	Class Room Teaching	4	K2	CO2			08.08.2023 to 11.08.2023
4.	Purchase Budget	Class Room Teaching	1	K3	CO3	MCQ Test, Assignment given, CIA I exam	27.07.2023 to	12.08.2023
5.	Overhead Cost	Class Room Teaching	1	K3	CO3		19.08.2023	14.08.2023
6.	Cash and Flexible Budgets.	Class Room Teaching	4	K4	CO4			16.08.2023 to 18.08.2023
7.	Revision	Class Room Teaching	1					19.08.2023

21.08.2023 to 29.08.2023 CIA I exam were conducted

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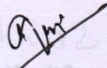
**CRITERION VI****LESSON PLAN****LESSON PLAN****Unit –IV Standard Costing & Marginal Costing**

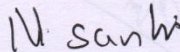
Standard Costing – Meaning, Advantages and Limitations – Variance analysis – significance –  
 Computation of variances (Material and Labour variance only) – Marginal costing – CVP analysis –  
 Break Even Analysis – BEP – Managerial applications – Margin of Safety – Profit planning.

**Text Book:**

1. Ramachandran & Srinivasan, Management Accounting, Sri Ram Publications, 2015

S. No	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity Given to the Students	Proposed date of completion	Actual date of completion
1.	Standard Costing – Meaning, Advantages and Limitations	PPT & Class Room Teaching	1	K1	CO1			1.09.2023
2.	Computation of variances – Material	Class Room Teaching	3	K2	CO2			4.09.2023 & 5.09.2023
3.	Computation of variances – Labour	Class Room Teaching	3	K2	CO2			7.09.2023 & 8.09.2023
4.	Marginal costing – CVP analysis	Class Room Teaching	1	K3	CO3			9.09.2023
5.	Break Even Analysis – BEP	Class Room Teaching	1	K4	CO3			11.09.2023
6.	Margin of Safety – Profit planning	Class Room Teaching	2	K4	CO4			12.09.2023
7.	Revision	Class Room Teaching	1					14.09.2023

  
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**CRITERION VI****LESSON PLAN****Unit -V Management Reporting**

Meaning of Management Reporting – Requisites of a Good Reporting System – Principles of Good Reporting System – Methods of Reporting – Kinds of Reports – Process of Report Writing – Drafting of Reports under different Situations.

S.No	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity Given to the Students	Proposed date of completion	Actual date of completion
1	Meaning of Management Reporting	Class Room Teaching	1	K1	CO1	MCQ Test, Assignment given, Unit Test	19.09.2023 to 30.09.2023	19.09.2023
2	Requisites of a Good Reporting System	Class Room Teaching	1	K2	CO2			20.09.2023
3	Principles of Good Reporting System – Methods of Reporting	Class Room Teaching	2					22.09.2023 & 23.09.2023
4	Kinds of Reports – Process of Report Writing	Class Room Teaching	2					25.09.2023 & 26.09.2023
5	Drafting of Reports under different Situations	Class Room Teaching	2					29.09.2023 & 30.09.2023

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**CRITERION VI****LESSON PLAN****PG & RESEARCH DEPARTMENT OF PHYSICS****LESSON PLAN**

<b>Department</b>	PG & Research Department of Physics		
<b>Degree &amp; Programme</b>	II B. Sc Physics		
<b>Course Title</b>	ELECTRICITY, MAGNETISM AND ELECTROMAGNETISM	<b>Course Code</b>	22UPH4CC5
<b>Faculty Name</b>	Dr. K. KANNAGI	<b>Faculty Code</b>	01FPHY0006
<b>Total hours per week</b>	6	<b>Semester</b>	IV
<b>Student strength</b>	30	<b>Course Starting Date</b>	07.12.2023

**Course Objectives**

- To develop knowledge in electrostatics and magneto statics and apply theories of static and moving charges.
- To give idea on the fundamentals of electromagnetic conduction and electromagnetic waves.
- To extend the understanding of its applications to instruments involving electric and magnetic fields.
- To explore the applications of Electricity and Magnetism.
- To analyze various concepts in electromagnetism with real time applications.

**Pre-requisites**

- Knowledge about the concepts of electrostatic Potential.
- Fundamental knowledge of currents in a network circuits.
- Apply the concept of magnetic materials and its applications.

**Course Outcome and Cognitive Level Mapping**

CO Number	CO Statement On the successful completion of the Course, the Students will be able to	Cognitive Level
CO 1	Understand the basic laws of electrostatics, magnetostatics and Electromagnetism.	K1, K2
CO 2	Apply the Principles behind the electric and magnetic instruments.	K3
CO 3	Analyze the behavior of circuits containing Inductance, Capacitance and Resistance connected in different combinations	K4
CO 4	Organize experiments to determine the absolute values of Q factor and power factor of LCR circuits.	K5
CO 5	Interpret the circuit into a mathematical problem using circuit laws and theorems.	K5

**Mapping of CO with PO and PSO**

Cos	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PO 1	PO 2	PO 3	PO 4	PO 5
CO 1	3	3	3	3	3	3	2	2	2	2
CO 2	3	3	3	3	3	3	2	2	2	2
CO 3	3	3	3	3	3	3	2	2	2	2
CO 4	3	3	3	3	3	3	3	3	2	2
CO 5	3	3	3	3	3	3	3	3	2	2

"1" – Slight (Low) Correlation  
– Substantial (High) Correlation

"2" – Moderate (Medium) Correlation  
"3" – indicates there is no correlation



**CRITERION VI****LESSON PLAN****Text Books**

S.No.	Authors Name	Title of the Book	Publishers Name	Year of Publication
1	Murugesan R	<i>Electricity and Magnetism</i>	Chand and Co., New Delhi	10 <sup>th</sup> edition, 2017
2	Brij Lal and N Subrahmanyam	<i>Electricity and Magnetism</i>	Ratan Prakashan Mandir, Agra	8 <sup>th</sup> edition, 2000

**Reference Books**

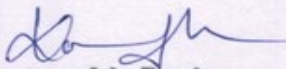
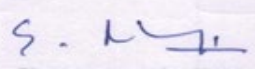
S.No.	Authors Name	Title of the Book	Publishers Name	Year of Publication
1	Vasudeva D N	<i>Fundamentals of Magnetism and Electricity</i>	S. Chand & Co, New Delhi	2 <sup>nd</sup> edition, 2013
2	Sehgal N K	<i>Electricity and Magnetism</i>	Sultan Chand and Sons, New Delhi	3 <sup>rd</sup> edition, 2014
3	Tiwari K K	<i>Electricity and Magnetism</i>	S. Chand and Company, New Delhi	2 <sup>nd</sup> edition, 2018
4	David J. Griffith	<i>Introduction to Electrodynamics</i>	Prentice Hall of India	2 <sup>nd</sup> edition, 2015
5	Paul A. Tipler and G. Mosca	<i>Physics for Scientist and Engineers</i>	W.H.Freeman, New York.	2003

**Web References**

1. <https://nptel.ac.in/courses/115106122>
2. <https://www.edx.org/learn/physics/rice-university-electricity-and-magnetism-part-1>
3. <https://www.coursera.org/courses?query=electricity%20and%20magnetism>

Signature			
Name & Designation	Faculty	HOD	Dean of Science

**CRITERION VI****LESSON PLAN**


Semester: <b>EVEN</b>		2023-2024						
<b>LESSON PLAN</b>								
<b>UNIT -1 ELECTROSTATICS</b>								
Coulomb's inverse square law - Gauss theorem and its applications - intensity at a point due to a charged sphere and cylinder - Principle of a capacitor - Capacity of spherical and cylindrical capacitors - Parallel plate capacitor - Effect of a dielectric - Energy stored in a capacitor - Loss of energy due to sharing of charges.								
S.No.	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to the students	Proposed date of completion	Actual date of completion
1	Coulomb's inverse square law - Gauss theorem and its applications	<a href="https://nptel.ac.in/courses/115106122">https://nptel.ac.in/courses/115106122</a> & Discussion	3	K2 K3	CO1 CO2			07.12.23, 07.12.23, 08.12.23.
2	Intensity at a point due to a charged sphere and cylinder	Chalk & Talk	3	K3	CO2			08.12.23, 11.12.23, 15.12.23.
3	Principle of a capacitor - Capacity of spherical and cylindrical capacitors	Chalk & Talk, Problem Solving	4	K4 K5	CO4 CO5	MCQ TEST, Assignment Class Test	07.12.23 - 20.01.24	15.12.23, 18.12.23, 22.12.23, 22.12.23.
4	Parallel plate capacitor- Effect of a dielectric - Energy stored in a capacitor	Chalk & Talk	4	K4 K5	CO3 CO4			04.01.24, 08.01.24, 08.01.24, 10.01.24
5	Loss of energy due to sharing of charges.	Chalk & Talk, Problem Solving	4	K5 K5	CO4 CO5			18.01.24, 18.01.24, 19.01.24, 20.01.24.
<b>Remarks (if any) - Unit Test -19.01.24</b>								
 Signature of the Faculty				 Signature of the HOD				

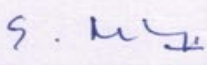
**CRITERION VI****LESSON PLAN****UNIT III MAGNETOSTATICS**

Biot-Savart's law and its applications- straight conductor, Circular coil, Solenoid carrying current - Divergence and curl of magnetic field- Magnetic vector potential - Ampere's circuital law- Intensity of magnetization - Susceptibility - Types of magnetic materials – Properties of dia, para and ferro magnetic materials - Cycle of magnetization

S.No.	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to the students	Proposed date of completion	Actual date of completion
1	Biot-Savart's law and its applications - straight conductor,	Chalk & Talk	4	K2 K3	CO1 CO2	MCQ TEST, Assignment Class Test	20.01.24, - 23.02.24.	20.01.24, 23.01.24, 25.01.24, 25.01.24.
2	Circular coil, Solenoid carrying current - Divergence and curl of magnetic field-	Chalk & Talk	3	K3	CO2			27.01.24, 27.01.24, 29.01.24.
3	Magnetic vector potential - Ampere's circuital law-	Chalk & Talk, Problem Solving	3	K4 K5	CO4 CO5			29.01.24 01.02.24, 01.02.24, 03.02.24.
4	Intensity of magnetization - Susceptibility - Types of magnetic materials	<a href="https://www.edx.org/course/ricel-university-electricity-and-magnetism-part-1&amp;discussion">https://www.edx.org/course/ricel-university-electricity-and-magnetism-part-1&amp;discussion</a>	4	K4 K5	CO3 CO4			05.02.24, 06.02.24, 07.02.24.
5	Properties of dia, para and ferro magnetic materials - Cycle of magnetization	Chalk & Talk, Problem Solving	4	K4 K5	CO4 CO5			08.02.24, 08.02.24, 09.02.24, 23.02.24.

Remarks (if any) - CIA-I - 20.02.24

  
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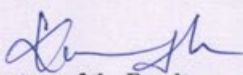
  
Signature of the HOD

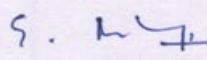
**CRITERION VI****LESSON PLAN****UNIT IV ELECTROMAGNETIC INDUCTION**

Laws of electromagnetic induction - Self and mutual induction - Self-inductance of a solenoid - Mutual inductance of a pair of solenoids - Coefficient of coupling - Experimental determination of self (Rayleigh's method) and mutual inductance

S.No.	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to the students	Proposed date of completion	Actual date of completion
1	Laws of electromagnetic induction - Self and mutual and mutual inductance.	Chalk & Talk	2	K2 K3	CO1 CO2	MCQ TEST, Assignment Class Test	24.02.24 - 11.03.24.	24.02.24, 27.02.24, 28.02.24, 28.02.24.
2	Self-inductance of a solenoid - Mutual inductance of a pair of solenoids	<a href="https://www.edx.org/learn/physics/rice-university-electricity-and-magnetism-part-1">https://www.edx.org/learn/physics/rice-university-electricity-and-magnetism-part-1</a> & Discussion	2	K3	CO2			29.02.24, 01.03.24, 01.03.24.
3	Coefficient of coupling	Chalk & Talk, Problem Solving	1	K5 K5	CO4 CO5			02.03.24, 04.03.24, 04.03.24, 05.03.24.
4	Experimental determination of self (Rayleigh's method)	Chalk & Talk	2	K4 K5	CO3 CO4			05.03.24 06.03.24, 06.03.24, 07.03.24.
5	Experimental determination of mutual inductance	Chalk & Talk	2	K4 K5	CO4 CO5			08.03.24, 08.03.24, 11.03.24.

Remarks (if any) - Unit Test -II - 07.03.24

  
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**CRITERION VI****LESSON PLAN****DEPARTMENT OF BIOTECHNOLOGY****TEXT BOOKS:**

S.No	Authors Name	Title of the Book	Publishers Name	Year of Publication
1	Harvey, L., Arnold, B., Lawrence, Z., Paul, M., David, B., James, D.	Molecular Cell biology.	W. H. Freeman Publishers.	8th Edition. Reprint 2020
2	Bruce, A.	Molecular Biology of the cell.	W. W. Norton Publishing Company.	6th Edition. Reprint 2014
3	Devasena, T.	Cell Biology	Oxford University Press.	4th Edition. Reprint 2012
4	Robert, W.	Molecular Biology.	McGraw Hill.	3 <sup>rd</sup> Edition. Reprint 2012
5	James Watson, D.	The Double Helix: A personal account of the Discovery of the Structure of DNA.	Touchstone Publishers.	3 <sup>rd</sup> Edition. Reprint 2011

**REFERENCE BOOKS:**

S.No	Authors Name	Title of the Book	Publishers Name	Year of Publication
1	Brown, T. A.	Gene Cloning and DNA Analysis: An Introduction.	Wiley and Sons.	8th Edition. Reprint 2021.
2	Cooper, G.	The Cell: A Molecular Approach,	Oxford University Press.	8th Edition. Reprint 2018
3	Thomas Pollard, D., William Earnshaw, C., Jennifer Lippincott, S., Graham Johnson, T.	Cell Biology	Elsevier publishers.	3rd Edition. Reprint (2017).
4	James Watson, D., Baker Tania, A., Bell Stephen, P., Alexander, G., Michael, L., Losick, R.	Molecular Biology of the gene. 7	Pearson Publishers.	7 <sup>th</sup> Edition. Reprint 2016
5	Walker John, M. & Ralph, R.	Molecular Biology and Biotechnology	RSC Publishing.	6 <sup>th</sup> Edition. Reprint 2015

Signature			
Name & Designation	<b>Dr.R.Rameshwari</b> Associate Professor &Head	<b>Dr.R.Rameshwari</b> Associate Professor &Head	<b>Dr.V.Sinthu Janita Prakash</b> Dean of Science

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TAMILNADU

**CRITERION VI****LESSON PLAN**

Semester :ODD

2023-2024

**LESSON PLAN****UNIT I -CELL STRUCTURE**

Discovery and diversity of cells - Cell theory - Structure of prokaryotic (bacteria) and eukaryotic cells (plant and animal cells).

S.No.	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to the students	Proposed date of completion	Actual date of completion
1	Discovery and diversity of cells	Chalk & Talk & Discussion	3	K2	CO1	MCQ TEST, Assignment Class Test	3.7.2023 - 30.7.23	5.7.23, 6.7.23.
2	Cell theory	Chalk &Talk	3	K3	CO2			7.7.23, 11.7.23, 12.7.23.
3	Structure of prokaryotic cell	Chalk & Talk,	4	K3 K4	CO4 CO5			13.7.23, 14.7.23, 15.7.23, 17.7.23.
4	Structure of eukaryotic cell	Chalk & Talk	4	K3 K4	CO3 CO4			18.7.23, 19.7.23, 21.7.23, 22.7.23.
5	Power Residues and problems	Chalk & Talk,	4	K3 K4	CO4 CO5			24.7.23, 25.7.23, 26.7.23.

**Remarks (if any)**

UNIT TEST 1 – 28.7.23

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**CRITERION VI****LESSON PLAN****UNIT II -Introduction to Cellular Organelles:**

Biomacromolecules and Biomicromolecules (Primary functions in the cell). Structure and Functions of Cell Organelles: Cell wall - Cell membrane - Cytoplasm - Nucleus - Endoplasmic reticulum - Ribosomes - Golgi bodies - Plastids - Vacuoles - Lysosomes - Mitochondria - Flagella - Cilia - Centrosome and Centrioles - Cytoskeleton.

S.No.	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to the students	Proposed date of completion	Actual date of completion
1	Biomacromolecules – Structure and function	Chalk & Talk & Discussion	3	K2	CO1	MCQ TEST, Assignment Class Test	27.7.2023-01.08.23	27.7.23
2	Biomicromolecules – Structure and function	Chalk & Talk	3	K3	CO2			28.7.23
3	Structure and Functions of Cell Organelles: Cell wall - Cell membrane - Cytoplasm	Chalk & Talk,	4	K3	CO4			29.7.23
4	Structure and Functions of Cell Organelles:Nucleus - Endoplasmic reticulum	Chalk & Talk	4	K3	CO3			30.7.23
5	Structure and Functions of Cell Organelles:Plastids - Vacuoles - Lysosomes - Mitochondria	Chalk & Talk,	4	K4	CO4			31.7.23
6	Structure and Functions of Cell Organelles: Centrosome and Centrioles - Cytoskeleton.	Chalk & Talk,	4	K3	CO4			01.8.23
				K4	CO5			

**Remarks (if any)**

CLASS TEST 1 – 29.07.2023

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**CRITERION VI****LESSON PLAN****UNIT III -Cell Division and Cell Signalling:**

Cell cycle - Cell cycle check points - Cell division - Mitosis and Meiosis - Cellular differentiation - Cell junctions - Cell Adhesion - Extra Cellular Matrix - Cell to cell communications - Signal transduction - G - Protein Coupled Receptors Signal transduction pathways.

S.No.	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to the students	Proposed date of completion	Actual date of completion
1	Cell cycle - Cell cycle check points	Chalk & Talk & Discussion	3	K2	CO1	MCQ TEST, Assignment Class Test	07.08.23 - 12.08.2023	7.08.23
2	Cell division - Mitosis	Power point presentation	3	K3	CO2			8.08.23
3	Cell division - Meiosis	Chalk & Talk,	4	K3	CO4			9.08.23
				K4	CO5			
4	Cell junctions - Cell Adhesion	Power point presentation	4	K3	CO3			10.08.23
				K4	CO4			
5	Extra Cellular Matrix	Power point presentation	4	K3	CO4		11.08.23	
				K4	CO5			
6	Cell to cell communications - Signal transduction. G - Protein Coupled Receptors Signal transduction pathways.	Chalk & Talk,	4	K3	CO4			12.08.23
				K4	CO5			

**Remarks (if any)**

CLASS TEST II – 10.08.23

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**CRITERION VI****LESSON PLAN****UNIT IV -Structure and Functions of DNA and RNA:**

Structure and functions of DNA- Types of RNA - Central Dogma of the cell: DNA - Replication in prokaryotes and eukaryotes - Enzymes and Proteins involved in Replication - Inhibitors of DNA Replication.

S.No.	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to the students	Proposed date of completion	Actual date of completion
1	Structure and functions of DNA	Chalk & Talk & Discussion	3	K2	CO1	MCQ TEST, Assignment Class Test	14.08.2023 - 30.08.2023	14.08.2023
2	Types of RNA :	Power point presentation	3	K3	CO2			16.08.2023
3	DNA - Replication in prokaryote	Chalk & Talk,	4	K3 K4	CO4 CO5			17.08.2023
4	DNA - Replication in Eukaryote	Power point presentation	4	K3 K4	CO3 CO4			18.08.2023
5	Structure and Functions of Cell Organelles: Plastids - Vacuoles - Lysosomes - Mitochondria	Power point presentation	4	K3 K4	CO4 CO5			19.08.2023
6	Structure and Functions of Cell Organelles: Centrosome and Centrioles - Cytoskeleton.	Chalk & Talk,	4	K3 K4	CO4 CO5			30.08.2023

**Remarks (if any)**

CLASS TEST II – 14.08.2023

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**CRITERION VI****LESSON PLAN****UNIT V -Introduction to Transcription and Translation:**

Transcription - Transcription in prokaryotes and eukaryotes □ initiation, elongation, termination and Post Transcriptional Modifications. Translation in prokaryotes and eukaryotes - Similarities and differences in prokaryotic and eukaryotic translation - Post Translational Modifications - Protein Sorting - Protein degradation.

S.No.	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to the students	Proposed date of completion	Actual date of completion
1	Transcription in prokaryotes	Chalk & Talk & Discussion	3	K2	CO1	MCQ TEST, Assignment Class Test	1.09.2023-09.09.2023	1.9.2023
2	Transcription in Eukaryotes	Power point presentation	3	K3	CO2			4.9.2023
3	Post Transcriptional Modifications.	Chalk & Talk,	4	K3 K4	CO4 CO5			6.9.2023
4	Translation in prokaryotes	Power point presentation	4	K3 K4	CO3 CO4			8.9.2023
5	Translation in Eukaryotes	Power point presentation	4	K3 K4	CO4 CO5			13.9.2023
6	Post-Translational Modifications - Protein Sorting - Protein degradation..	Chalk & Talk,	4	K3 K4	CO4 CO5			15.9.2023

**Remarks (if any)**

CLASS TEST III – 20.09.2023

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**CRITERION VI****LESSON PLAN****LESSON PLAN**

<b>Department</b>	Department of Biotechnology		
<b>Degree &amp; Programme</b>	II B. Sc., Biotechnology		
<b>Course Title</b>	BIOINFORMATICS	<b>Course Code</b>	22UBT3AC4
<b>Faculty Name</b>	Ms. R. NEVETHA	<b>Faculty Code</b>	F01BT008
<b>Total hours per week</b>	4	<b>Semester</b>	III
<b>Student strength</b>	34	<b>Course Starting Date</b>	14/06/2023

**OBJECTIVES:**

- To learn about the fundamentals of Bioinformatics
- To become familiarize with the databases for structure prediction and sequence analysis of macromolecules.
- To understand the usage of basic online bioinformatics tools and techniques
- To apply bioinformatics concepts and tools in various fields

**COURSE OUTCOME:**

On the successful completion of the course, students will be able to,

<b>CO NUMBER</b>	<b>CO STATEMENT</b>	<b>KNOWLEDGE LEVEL</b>
CO1	Acquire knowledge about the developments and applications of Bioinformatics	K1, K2
CO2	Gain knowledge about the importance of bioinformatics, databases, tools, software of bioinformatics and different types of biological databases	K2
CO3	Understand the basics of sequence alignment, sequence analysis and protein structure prediction method	K2
CO4	Introduce the importance of drug designing and apply the bioinformatics tools in medicine for drug discovery and identification of novel drugs	K3
CO5	Analyze the different applications of bioinformatics in various fields and explore upcoming areas of interest in bioinformatics	K4

**CRITERION VI****LESSON PLAN****Mapping with Programme Outcomes:**

COs/POs	PSO1	PSO2	PSO3	PSO4	PSO5	PO1	PO2	PO3	PO4	PO5
CO1	3	3	2	2	1	3	3	3	2	1
CO2	3	3	3	3	1	3	3	3	3	1
CO3	3	3	3	3	1	3	2	2	2	2
CO4	3	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	2	3	3	2	3	2

"1" – Slight (Low) Correlation "2" – Moderate (Medium) Correlation

"-" indicates there is no correlation "3" – Substantial (High) Correlation

**TEXT BOOKS:**

S.No	Authors Name	Title of the Book	Publishers Name	Year of Publication
1	Manoj. K	An Introduction to the Theory of Numbers. Introduction to Bioinformatics	Notion Press	2020
2	Noor, A.S., Khalid, R.H., Babajan, B., Ramu E	Essentials of Bioinformatics, Volume I: Understanding Bioinformatics: Genes to Proteins	MJP Publisher	2019
3	Shuba. G	Bioinformatics	Tata McGraw Hill publishing. India	2010
4	Rastogi. S.C., Mendiratta. N.R.P.	Bioinformatics methods and application	Prentice-Hall of India private limited, New Delhi.	2004
5	Pennington, S.R., Punn, M.J.	Proteomics: from protein sequence to function	Viva books Pvt. Ltd.	2002

**REFERENCE BOOKS:**

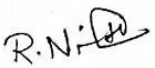

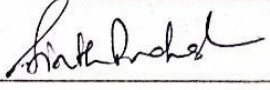
S.No	Authors Name	Title of the Book	Publishers Name	Year of Publication
1	Attwood T.K., Parry Smith. D.J.	Introduction to Bioinformatics.	Pearson Education	2008
2	Arthur L.	Introduction to Bioinformatics.	Oxford University Press	2019
3	Paola L.	Systemic Approaches in Bioinformatics and Computational Systems Biology:	Business Science Reference	2011



CRITERION VI

LESSON PLAN

Recent Advances				
4	David. M.	Bioinformatics: sequence and genome analysis. second edition.,	Taylor & Francis, UK	2009
5	Westhead D.R	Instant Notes in Bioinformatics- second edition	Taylor & Francis, UK	2009

Signature			
Name & Designation	Ms R. Nevetha Asst. Professor	Dr. R. Rameshwari Head & Associate Professor	Dr. V. Sinthu Janita Prakash Dean of Science

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**CRITERION VI****LESSON PLAN**

Semester : ODD

2023-2024

**LESSON PLAN**

**UNIT I - Bioinformatics: Fundamentals of Bioinformatics -Introduction to concepts and terminology of Internet, Search engines, Databases and Softwares**

S.No.	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to the students	Proposed date of completion	Actual date of completion
1	Fundamentals of Bioinformatics	PPT	2	K1	CO1	MCQ TEST, Assignment Class Test	16/06/23 To 26/06/23	16/06/23
2	Introduction to concepts and terminology of Internet	Chalk & Talk	1	K1	CO2			17/06/23
3	Search engines	PPT	2	K2	CO3			20/06/23
4	Databases	PPT	3	K3	CO4			23/06/23
5	Softwares	PPT	2	K4	CO5			26/06/23

Remarks (if any)

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**CRITERION VI****LESSON PLAN**

Semester : ODD

2023-2024

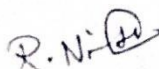
**LESSON PLAN**


**UNIT II - Introduction to Tools and Databases:** Review of basics about structure of macromolecules - DNA, RNA and Proteins. Online resources for Bioinformatics – Biological Databases – NCBI, Genbank, Swissprot. Sequence alignment – Multiple sequence alignment – CLUSTALW – Pairwise alignment – BLAST

S.No.	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to the students	Proposed date of completion	Actual date of completion
1	Review of basics about structure of macromolecules	PPT	1	K1	CO1	MCQ TEST, Assignment Class Test	28/06/23 To 14/07/23	28/06/23
2	DNA, RNA and Proteins	Chalk & Talk	3	K2	CO1			03/07/23
3	Online resources for Bioinformatics	PPT	1	K3	CO2			05/07/23
4	Biological Databases – NCBI, Genbank, Swissprot.	PPT	3	K3	CO3			10/07/23
5	Sequence alignment – Multiple sequence alignment – CLUSTALW	<a href="https://www.genome.jp/tools-bin/clustalw">https://www.genome.jp/tools-bin/clustalw</a>	1	K4	CO4			12/07/23
6	Pairwise alignment – BLAST	<a href="https://blast.ncbi.nlm.nih.gov/Blast.cgi">https://blast.ncbi.nlm.nih.gov/Blast.cgi</a>	1	K4	CO5			14/07/23

**Remarks (if any)**

UNIT TEST 1 – 28.7.23

  
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**CRITERION VI****LESSON PLAN**

Semester : ODD

2023-2024

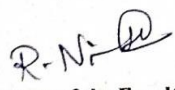
**LESSON PLAN**

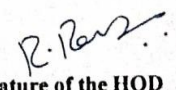
**UNIT III - Sequence Analysis and Alignment:** Bioinformatics in genomics and proteomics – gene sequencing tools traditional methods – Maxam and Gilbert’s method, Sanger’s sequencing – structure prediction tools – Gene and protein expression analysis – similarity search databases – FASTA. Analysis of Phylogeny – Phylogenetic tree construction, computational analysis tools (SCHRODINGER) and visualization tools (RASMOL).

S.No.	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	Cos	Activity given to the students	Proposed date of completion	Actual date of completion
1	Bioinformatics in genomics and proteomics	PPT	1	K1	CO1	MCQ TEST, Assignment Class Test	15/07/23 To 09/08/23	15/07/23
2	gene sequencing tools traditional methods – Maxam and Gilbert’s method	Chalk & Talk	2	K2	CO2			19/07/23
3	Sanger’s sequencing	PPT	2	K2	CO2			22/07/23
4	Structure prediction tools	PPT	1	K3	CO3			24/07/23
5	Gene and protein expression analysis	PPT	1	K1	CO3			25/07/23
6	similarity search databases-FASTA	Chalk & Talk	1	K1	CO4			27/07/23
7	Analysis of Phylogeny – Phylogenetic tree construction	PPT	2	K3	CO4			29/07/23
8	Computational analysis tools (SCHRODINGER)	PPT	1	K4	CO5			08/08/23
9	Visualization tools (RASMOL)	PPT	1	K4	CO5			09/08/23

Remarks (if any)

CIA I-28/08/23

  
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**CRITERION VI****LESSON PLAN**

Semester : ODD

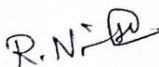
2023-2024


**LESSON PLAN**

**UNIT IV - Introduction to Drug Discovery:** History of drug discovery, Steps in drug design - Role of molecular docking in drug design. Introduction to Simulation softwares in biology – High throughput screening, AutoDock, ChemDraw, ADMET, PubMed and MEDLINE.

S.No.	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	Cos	Activity given to the students	Proposed date of completion	Actual date of completion
1	History of drug discovery	PPT	2	K1	CO1	MCQ TEST, Assignment Class Test	12/08/23 To 11/09/23	12/08/23
2	Steps in drug design	Chalk & Talk	1	K3	CO2			14/08/23
3	Role of molecular docking in drug design	PPT	2	K3	CO2			18/08/23
4	Introduction to Simulation softwares in biology	PPT	3	K1	CO1			31/08/23
5	High throughput screening	PPT	2	K2	CO3			02/09/23
6	AutoDock	PPT	1	K4	CO5			04/09/23
7	ChemDraw	PPT	1	K4	CO4			06/09/23
8	ADMET	Chalk & Talk	1	K3	CO3			08/09/23
9	PubMed and MEDLINE	<a href="https://pubmed.ncbi.nlm.nih.gov/">https://pubmed.ncbi.nlm.nih.gov/</a>	1	K3	CO4			11/09/23

Remarks (if any)

  
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Signature of the HOD

**CRITERION VI****LESSON PLAN**

Semester : ODD

2023-2024

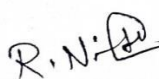
**LESSON PLAN**

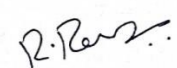
**UNIT V - Applications of Bioinformatics in various fields:** Applications of Bioinformatics in different fields – Genomics, Proteomics, Molecular medicine, Drug development, Forensic analysis, Evolutionary studies, Crop improvement and Environmental monitoring.

S.No.	Topic covered	Teaching pedagogy	No. of Hours Required	Cognitive Level	COs	Activity given to the students	Proposed date of completion	Actual date of completion
1	Applications of Bioinformatics in different fields – Genomics, Proteomics	PPT	2	K1	CO1	MCQ TEST, Assignment Class Test	15/09/23 To 29/09/23	15/09/23
2	Molecular medicine	Chalk & Talk	1	K3	CO3			19/09/23
3	Drug development	PPT	2	K4	CO2			21/09/23
4	Forensic analysis	PPT	1	K2	CO4			22/09/23
5	Evolutionary studies	PPT	2	K3	CO4			26/09/23
6	Crop improvement and Environmental monitoring	PPT	1	K4	CO5			29/09/23

**Remarks (if any)**

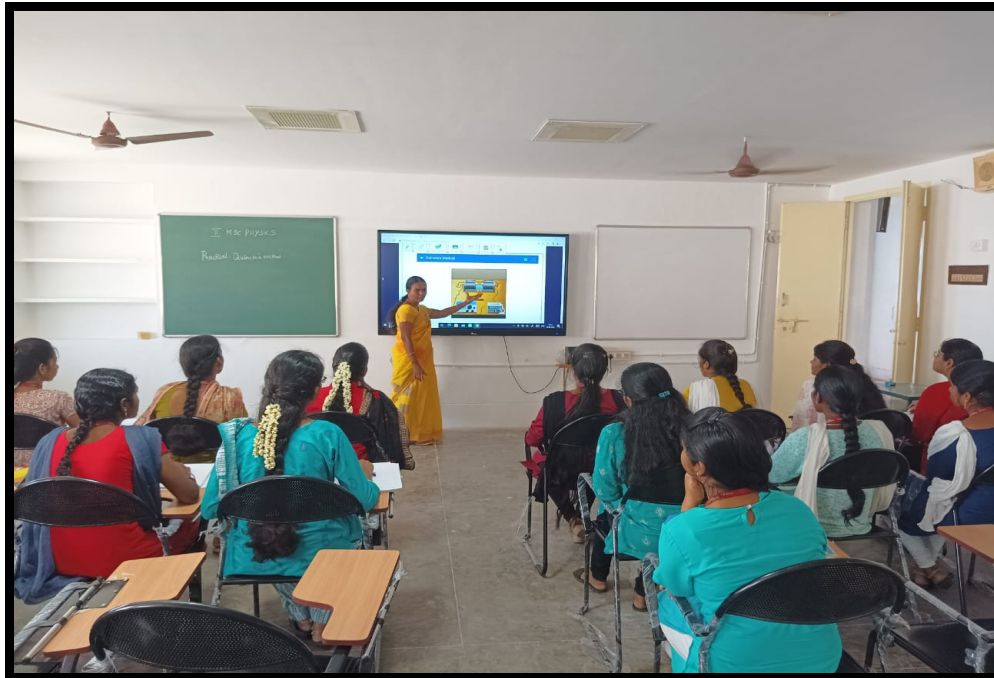
CIA II- 20/10/2023

  
 Signature of the Faculty

  
 Signature of the HOD



**TEACHING PEDAGOGY- SMART CLASSROOM**





**TEACHING PEDAGOGY- PPT**



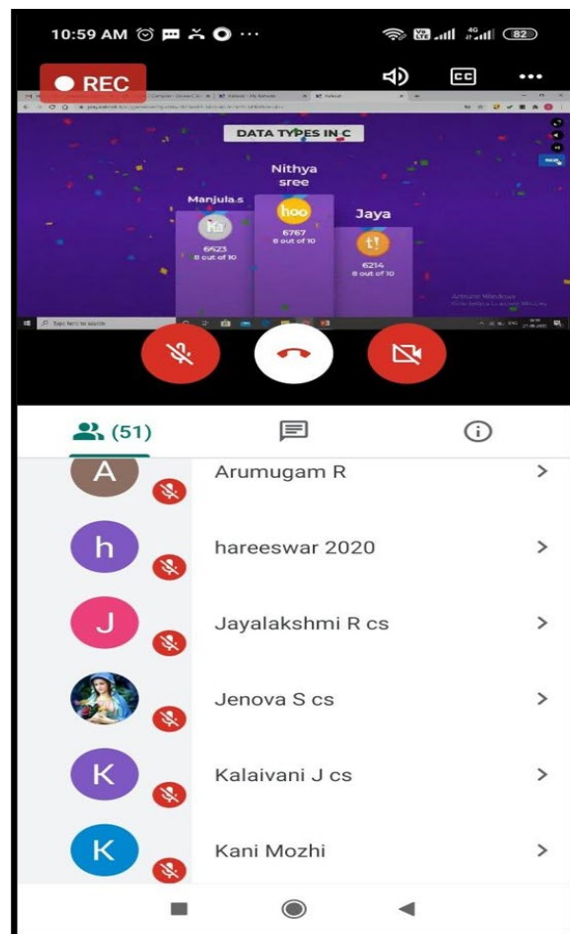
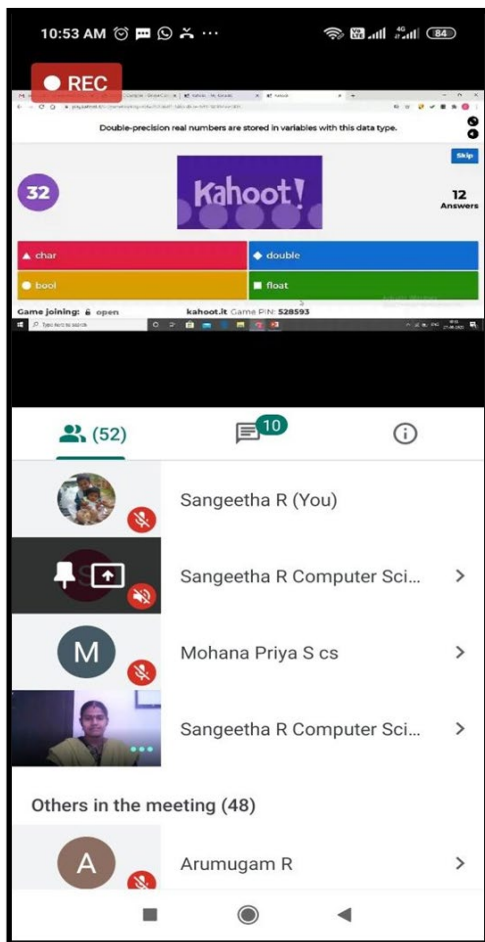
**TEACHING PEDAGOGY CHALK AND TALK**





TEACHING PEDAGOGY - ICT TOOLS

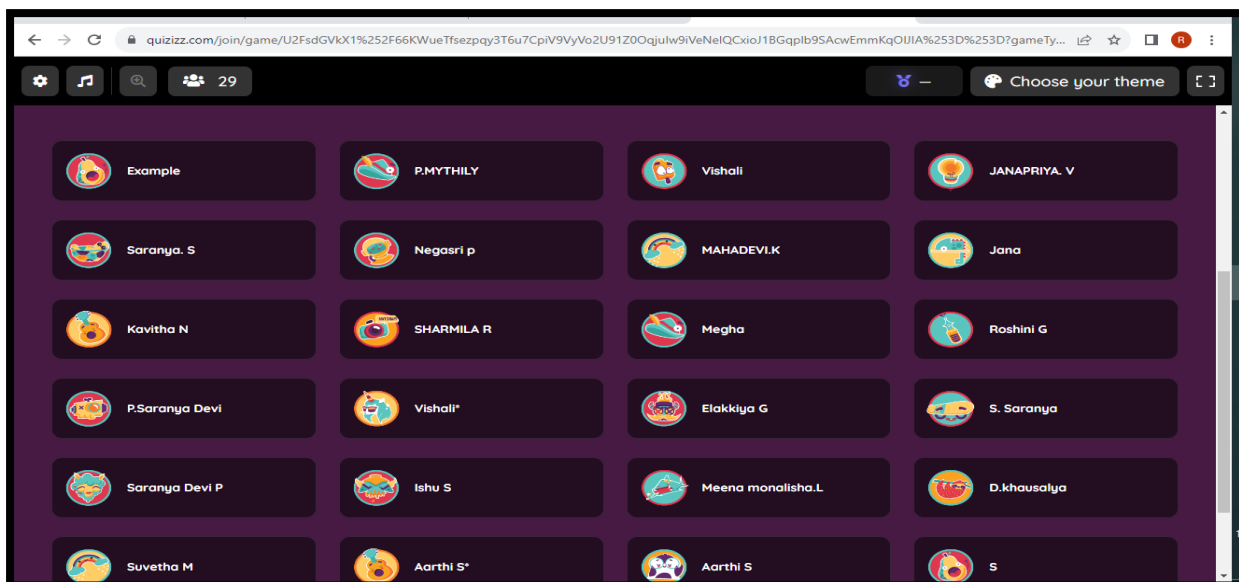
The student-friendly campus is fully furnished with Information and Communications Technology tools to enable the students to get acquainted with modern-day technologies thereby blending chalk and talk teaching method with e-learning. In the current era of teaching, learning, and evaluation, ICT tools are vital. Visual aids help to communicate better with the students, encouraging a conducive relationship between the student and teachers





PEDAGOGY – ACTIVITY ONLINE QUIZ

Participant	Score	Points Out of 20	Q1	Q2	Q3	Q4	Q5	Q6	Q7
MAHADEVI.K	19070	20 (100%)	75%	75%	53%	56%	56%	28%	56%
Jana	22910	20 (100%)	✓	✓	✓	✓	✓	✓	✓
MAHALAKSHMI P	19490	19 (95%)	✓	✓	✓	✓	✓	✗	✓
Elakkiya G	18320	18 (90%)	✓	✓	✓	✓	✓	✗	✓
Suvetha M	12670	17 (85%)	✓	✓	✓	✓	✗	✓	✓
Saranya. S	16110	17 (85%)	✓	✓	✓	✓	✓	✓	✓



<https://docs.google.com/forms/d/1hSHKewSGO35bCWdmITFUOROTsjVrqkplWCYoIlxOOT8/edit?authuser=0>