The ICFAI University, Tripura

Established under section 4(2) of the Institute of Chartered Financial Analysts of India University, Tripura Act. 2004
Campus Address : Kamalghat (Near Agartala), PIN - 799210, Tel : 0381-2865752/62, Fax : 0381-2865754
Website : www.iutripura.edu.in, Email : registrar@iutripura.edu.in

FACULTY OF MANAGEMENT AND COMMERCE

Qualitative Write-up: Student Centric Methods

2.3.1 Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences

Experiential Learning: As management, studies ae directly related to practical learning and problem solving approach, the curriculum of all the programs are structured in this manner. Students are sent for summer internship where they go through rigorous training and get access to corporate environment. Moreover, student are sent for Industry visits which play a pivotal role in the holistic education of both BBA and MBA students as they bridge the gap between theoretical knowledge and real-world application. These visits provide invaluable opportunities for students to witness firsthand the operational intricacies, challenges, and innovations within diverse industries. Exposure to actual business environments enhances students' understanding of theoretical concepts learned in classrooms, fosters practical problem-solving skills, and cultivates a nuanced appreciation for industry dynamics. Interactions with industry professionals during such visits not only broaden students' perspectives but also offer networking possibilities, paving the way for potential internships, collaborations, and future career opportunities. Overall, industry visits are instrumental in preparing MBA students for the dynamic and competitive business landscape by equipping them with practical insights and a well-rounded skill set. The department organizes at least one industrial visit and industrial tour for the students for practical based learning experience. Students submit a report after the visit where they provide all the details of facts and training they have.

Participative Learning: The benefit of participatory or active learning is that it encourages students to work together to solve problems, find solutions, and more, thereby encouraging team building. Department organizes Food Fest. Managed and executed entirely by students pursuing MBA and BBA degrees, the Food Fest proved to be a testament to their organizational skills, creativity, and business acumen. One of the key highlights of the event is the evaluation criteria, which encompassed various aspects of stall management, sales management, crowd engagement, and overall performance. This approach not only encouraged healthy competition among the students but also provided valuable hands-on experience in real-world business operations.

Problem Solving Methodology: Problem-solving skills are developed through various means such as Classes taken by senior students for junior students, Quizzes, MCQ-Tests, Case Analysis and presentations, Budget analysis.

ICT Enable Tools: ICT helps pupils to develop new skills and become more creative. As all the classrooms are well equipped with projector and smartboards, it facilitates the faculties to deliver their lecture with more innovative and interactive manner. Many faculties also provide video recording classes of their own through LMS or other platforms.

Online Resources: An online resource is a source of information such as web pages or documents that we can find browsing the internet. As management studies demand practical learning, students are given access to live data and online data sources from where they develop their projects. Students are given continuous training on data analytics through access on online data and through different software packages.

Dean
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Program Name: MBA 1st Year Sem I, AY 2023-24								
Name of the faculty	Course Name	Course Code	Experiential Learning	Participative Learning	Problem-Solving Methodologies	Any Other Methods	ICT enabled tools	Any Other Online Resources
Dr. Dipangshu Dev Chowdhury	Managerial Economics	INM551	Live Project Methos	Group presentation	Case Study	Presentation	PPT	
Dr. Soumitra Sankar Das	I	BANA501	Live Project Methos	Group presentation	Case Study	Presentation	PPT	
Dr. Prasenjit Dasgupta /Dr.	Organizational Behaviour	INM541	Live Projects	Joint Problem solving	Case Study	Presentation		
Ms. Prija Saha	IT for Managers	ITM111	Live Project Methos	Group presentation	Case Study	Presentation	PPT	
Dr. Animesh Bhattacharjee	Financial Managem	INM531	Live Project Methods	Group presentation	Case Study	Presentation	PPT	
Prof. Tamladipta Sen	Accounting for Managers	INM571	Live Project Methos	Group presentation	Case Study	Presentation	PPT	ICAI Study Material
Prof. Mousumi Biswas	Business Communication	BCOM101	Live Project Methos	Group presentation	Case Study	Presentation	PPT	
Dr. Trinankur Dey	Marketing Management I	INM511	Live Project Methos	Group presentation	case study method	Field Trips	PPT	
Program Name: MBA 2nd Year Sem I, AY 2023-24								
Name of the faculty	Course Name	Course Code	Experiential Learning	Participative Learning	Problem-Solving Methodologies	Any Other Methods	ICT enabled tools	Any Other Online Resources
Dr. Sujit Deb	Financial Managem	INM522	Live Project Methods	Group presentation	Case Study	Presentation	PPT	
Prof. Soumen Sanyal	Operations Manage	INM532	Live Project Methos	Group presentation	Case Study	Presentation	PPT	
Dr. Prasenjit Dasgupta	Human Resource M	INM542	Live Project Methos	Group presentation	Case Study	Presentation	PPT	
Dr. Pradip Chouhan	Macroeconomics an	INM552	Live Project Methos	Group presentation	case study method	Field Trips	PPT	
Dr. Soumitra Sankar Das	Business Analytics-	BANA601	Live Project Methods	Group presentation	Case Study	Presentation	PPT	
Dr. Mousumi Kalita	Legal Environment	INM582	Live Project Methos	Group presentation	Case Study	Presentation	PPT	
Prof. Mousumi Biswas	Soft Skills Lab I	SS592	Live Project Methos	Group presentation	Case Study	Presentation	PPT	
Dr. Trinankur Dey	Marketing Management II	INM512	Live Project Methos	Group presentation	case study method	Field Trips	PPT	
Marketing Management II	INM512	Live Project Methos	Group presentation	case study method	Field Trips	PPT		
Program Name: MBA 1st Year Sem II, AY 2023-24								
Course Name	Course Code	Experiential Learning	Participative Learning	Problem-Solving	Any Other Methods	ICT enabled	Any Other	
Financial Management II	INM522	Live Project Methos	Group presentation	case study method	Field Trips	PPT		
Operations Management	INM532	Live Project Methos	Group presentation	case study method	Field Trips	PPT		
Human Resource	INM542	Live Project Methos	Group presentation	case study method	Field Trips	PPT		
Macroeconomics and	INM552	Live Project Methos	Group presentation	case study method	Field Trips	PPT		

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Business Analytics-II	BANA601	Live Project Methos	Group presentation	case study method	Field Trips	PPT		
Legal Environment of	INM582	Live Project Methos	Group presentation	case study method	Field Trips	PPT		
Soft Skills Lab I	SS592	Live Project Methos	Group presentation	case study method	Field Trips	PPT		
Marketing Management II	INM512	Live Project Methos	Group presentation	case study method	Field Trips	PPT		
Program Name: MBA 2nd Year Sem II, AY 2023-24								
Course Name	Course Code	Experiential Learning	Participative Learning	Problem-Solving	Any Other Methods	ICT enabled	Any Other	
Program Name: BBA 1ST Year Sem I, AY 2023-24								
English Language Skills I	ENG101	Individual Presentation	Group Discussion			PPT	you tube videos & Resources	
Principles of Management	MGT101	Individual Presentation	Group Discussion	Data Analysis		PPT	you tube videos & Resources	
Financial Accounting I	MGT103	Individual Presentation	Group Discussion	Data Analysis		PPT	you tube videos & Resources	
Introduction to Philosophy	PHIL104	Individual Presentation	Group Discussion	Data Analysis		PPT	you tube videos & Resources	
Introduction to MS Office	CA102	Individual Presentation	Group Discussion	Data Analysis		PPT	you tube videos & Resources	
Environmental Studies	ENV223	Individual Presentation	Group Discussion	Data Analysis		PPT	you tube videos & Resources	
English Language Skills I	ENG101	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Principles of Management	MGT101	Individual Presentation	Group Discussion	Data Analysis		PPT	you tube videos & Resources	
Financial Accounting I	MGT103	Individual Presentation	Group Discussion	Data Analysis		PPT	you tube videos & Resources	
Introduction to	PHIL104	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Introduction to MS Office	CA102	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Environmental Studies	ENV223	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
English Language Skills I	ENG101	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Principles of Management	MGT101	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Financial Accounting I	MGT103	Live Project Methos	Group presentation	Case Study	Presentation	PPT	ICAI Study	
Introduction to	PHIL104	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Introduction to MS Office	CA102	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Environmental Studies	ENV223	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Program Name: BBA 2ND Year Sem I, AY 2023-24								
Management Accounting	MGT211	Live Project Methods	Group presentation	Case Study	Presentation	PPT		
Marketing Management I	MGT221	Industrial Visit,	Group Discussion, Role play	Solving Caselet				
Organizational Behavior	MGT231	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Business Report Writing	BUSR203	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Legal Aspects of Business	LAB211	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Operations Management	MGT242	Individual	Group Discussion	Data Analysis		PPT	you tube videos	

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Management Accounting	MGT211	Live Project Methods	Group presentation	Case Study	Presentation	PPT		-
Marketing Management I	MGT221	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Organizational Behavior	MGT231	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Business Report Writing	BUSR203	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Legal Aspects of Business	LAB211	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Operations Management	MGT242	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Management Accounting	MGT 211	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Marketing Management I	MGT221	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Organizational Behaviour	MGT231	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Business Report Writing	BUSR203	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Legal Aspects of Business	LAB211	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Operations Management	MGT242	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Program Name: BBA 3rd Year Sem I, AY 2023-24								
Project Management	MGT302	Live Project Methos	Group presentation	Case Study	Presentation	PPT		
Business Environment	MGT304	Field survey	Group presentation	case study		ppt		
Entrepreneurship	MGT306	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Soft Skills II	SS302	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Project Management	MGT302	Live Project Methos	Group presentation	Case Study	Presentation	PPT		
Business Environment	MGT304	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Entrepreneurship	MGT306	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
				ELECTIVES				
HR Analytics	MGT431	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Strategic Human Resource	MGT421	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Working Capital	MGT403	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Capital Markets	MGT411	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Sales Management	MGT401	Group Project	Group Discussion	Case Study	Assignment	MS Word and ppt	Investopedia	
Advertising & Sales	MGT402	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Program Name: BBA 1ST Year Sem II, AY 2023-24								
English Language Skills II	EGL102	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Financial Accounting II	COM108	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Introductory Psychology	HS204	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Micro Economics	MGT104	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Yoga Education	PHE119	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Sports Management	PHE120	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Soft Skills I	SS261	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
English Language Skills II	EGL102	Individual	Group Discussion	Data Analysis		PPT	you tube videos	

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Financial Accounting II	COM108	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Introductory Psychology	HS204	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Micro Economics	MGT104	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Yoga Education	PHE119	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Sports Management	PHE120	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Soft Skills I	SS261	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
English Language Skills II	EGL102	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Financial Accounting II	COM108	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Introductory Psychology	HS204	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Micro Economics	MGT104	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Yoga Education	PHE119	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Sports Management	PHE120	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Soft Skills I	SS261	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Program Name: BBA 2ND Year Sem II, AY 2023-24								
Financial Management	MGT212							
E-Commerce & Digital	ECOM221	Industrial Visit,	Group Discussion, Role play	Solving Caselet				
Marketing Management II	MGT222	Group Project	Group Discussion	Case Study	Assignment	MS Word and	Investopedia	
Human Resource	MGT232	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Business Research	MGT305	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Soft Skills I	SS261	Group Project	Group Discussion	Case Study	Assignment	MS Word and	Investopedia	
Financial Management	MGT212	Group Project	Group Discussion	Case Study	Assignment	MS Word and	Investopedia	
E-Commerce & Digital	ECOM221	Group Project	Group Discussion	Case Study	Assignment	MS Word and	Investopedia	
Marketing Management II	MGT222	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Human Resource	MGT232	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Business Research	MGT305	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Soft Skills I	SS261	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Financial Management	MGT212	Live Project Methos	Group presentation	Case Study	Presentation	PPT	ICAI Study	
E-Commerce & Digital	ECOM221	Group Project	Group Discussion	Case Study	Assignment	MS Word and	Investopedia	
Marketing Management II	MGT222	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Human Resource	MGT232	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Business Research	MGT305	Group Project	Group Discussion	Case Study	Assignment	MS Word and	Investopedia	
Soft Skills I	SS261	Group Project	Group Discussion		Assignment	MS Word and		
Program Name: BBA 3rd Year Sem II, AY 2023-24								
Business Ethics	MGT307	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
International Business	MGT321	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Business Strategy &	MGT301	Group Project	Group Discussion	Case Study	Assignment	MS Word and	Investopedia	
Leadership and change	OBH301	Group Project	Group Discussion		Assignment	MS Word and		

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Business Ethics	MGT307	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
International Business	MGT321	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Business Strategy &	MGT301	Group Project	Group Discussion	Case Study	Assignment	MS Word and	Investopedia	
Leadership and change	OBH301	Group Project	Group Discussion		Assignment	MS Word and		
				ELECTIVES				
Bank Management	MGT408	Group Project	Group Discussion	Case Study	Assignment	MS Word and	Investopedia	
Investment Management	MGT412	Group Project	Group Discussion		Assignment	MS Word and		
Services Marketing	MGT406	Individual	Group Discussion	Data Analysis		PPT	you tube videos	
Marketing Research (Marketing)	MGT407	Individual Presentation	Group Discussion	Data Analysis		PPT	you tube videos & Resources	
Employment Laws (HR)	MGT418	Group Project	Group Discussion	Case Study	Assignment	MS Word and	Investopedia	
Performance Management	MGT420	Group Project	Group Discussion		Assignment	MS Word and		
Program Name: M.Com 1st Year Sem II, AY 2023-24								
Financial Analysis and Control (FCA412)		Live Project Methos	Group presentation	Case Study	Presentation	PPT	ICAI Study Materials	
Research Methodology and statistical application		Live Project Methods	Group presentation	Case Study	Presentation	PPT	e-gyankosh	
Economic Environment and policies (EEP412)		Live Project Methods	Group presentation	Case Study	Presentation	PPT	e-gyankosh	
Taxation (TAX412)		Live Project Methods	Group presentation	Case Study	Presentation	PPT		
Business Communication and Office Management (COM411)		Group Project	Group presentation		Presentation	PPT		
Program Name: M.Com 2nd Year Sem II, AY 2023-24								
Human Resource Management (HRM524)		Live Project Methods	Group presentation	Data Analysis	Presentation	PPT	e-gyankosh	
Corporate Legal		Live Project Methods	Group presentation	Data Analysis	Presentation	PPT	e-gyankosh	
Framework (CLF524)		Live Project Methods	Group presentation	Data Analysis	Presentation	PPT	e-gyankosh	
Security Analysis &		Live Project Methods	Group presentation	Data Analysis	Presentation	PPT	e-gyankosh	
Corporate Financial Reporting (CFR522)		Live Project Methods	Group presentation	Case Study	Presentation	PPT	e-gyankosh	
Program Name: B.Com 1st Year Sem II, AY 2023-24								
Auditing (COM126)								
Advance Financial		Live Project Methods	Group presentation	Case Study	Presentation	PPT		
Business Economics - I (COM127)		Group Project	Group presentation	Data Analysis	Presentation	PPT	e-gyankosh	
Business Mathematics (BBM111)		Group Project	Group presentation	Data Analysis	Presentation	PPT	e-gyankosh	
Soft Skills (SS301)		Group Project	Group presentation	Data Analysis	Presentation	PPT	e-gyankosh	

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English Language Skills II (EGL102)		Group Project	Group presentation		Presentation	PPT	e-gyankosh	
Environmental Studies (ENV223)		Group Project	Group presentation	Data Analysis	Presentation	PPT	e-gyankosh	
Program Name: B.Com 2nd Year Sem II, AY 2023-24								
Soft Skills I (SS261)		Group Project	Group presentation	Data Analysis	Presentation	PPT	e-gyankosh	
Company Law (BCL221)		Group Project	Group presentation	Data Analysis	Presentation	PPT	e-gyankosh	
Management Accounting (BMA221)		Group Project	Group presentation	Data Analysis	Presentation	PPT	e-gyankosh	
Indirect Tax (BIT222)		Live Project Methods	Group presentation	Case Study	Presentation	PPT		
Business Research (MGT305)		Group Project	Group presentation	Data Analysis	Presentation	PPT	e-gyankosh	
Fundamentals of Marketing (BFM221)		Group Project	Group presentation	Data Analysis	Presentation	PPT	e-gyankosh	
Program Name: B.Com 3rd Year Sem II, AY 2023-24								
Fundamentals of Financial								
Business Ethics and Governance (BBE321)		Live Project Methods	Group presentation	Case Study	Presentation	PPT		
International Finance (Finance) (BIF313)		Live Project Methods	Group presentation	Case Study	Presentation	PPT		
Computerized Accounting		Practicals						
Services Marketing (Marketing) (MGT406)		Group Project	Group presentation	Data Analysis	Presentation	PPT	e-gyankosh	
Marketing Research (Marketing) (MGT407)		Group Project	Group presentation	Data Analysis	Presentation	PPT	e-gyankosh	
E - Commerce (ECOM121)		Group Project	Group presentation	Data Analysis	Presentation	PPT	e-gyankosh	

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Date: 26/07/2024

Faculty of Law
Qualitative Write up
2.3 - Teaching- Learning Process

2.3.1 - **Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences**

The University emphasizes experiential and participative learning approaches to engage students in their educational journey:

- **Experiential Learning:**
  A. Various methods such as Moot Courts, Case Analysis, Legal Internships, through Legal Aid Clinics & Community Services & through various other Practical means of Legal Learning.
  B. Classrooms are equipped with ICT Facilities to facilitate interactive teaching & Learning, e.g., Using of Smart Boards.
  C. Pedagogies are designed to encourage Legal Solution based Practical Academia.
- **Participative Learning:**
  A. Students are encouraged to participate through activities like Case Analysis, Moot Court, Presentations, Group Discussions, Debates, and For Masters Students Teaching Assignments etc.
  B. The curriculum reflects these participative approaches, with internal assessments (various components) focusing on critical thinking & Legal Solution based skills.
  C. Faculty members promote self-learning/practical learning among students rather than traditional teaching methods.
- **Problem-solving:**
  A. Problem-solving skills are developed through various means such as Remedial Classes, Assignments, Moot Problems, Quizzes, MCQ-Tests, Exams & Case Analysis.
  B. Problems are presented in multidisciplinary approaches to encourage holistic learning.
  C. Diverse student backgrounds contribute to a rich learning environment where ideas and opinions are exchanged freely.
  D. In Practical Learning Methods like Court Visits & Moot Court, Students are trained to identify problems within situations & suggest alternative solutions.

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E. Overall, these approaches foster active engagement, critical thinking, and practical application of knowledge among students, preparing them for real-world challenges.

2.3.2 - Teachers use ICT enabled tools including online resources for effective teaching and learning processes during the year:

- **Introduction to ICT-enabled Teaching:** Teachers leverage ICT tools and online resources for effective teaching - learning processes, Like, ERP System, Moodle etc. & also other methods like Digital Platforms e.g., Google Meet, Zoom & Google Classroom etc. These also include some of the traditional modes like sharing documents over G-Mail & WhatsApp/Telgram.
- **Utilization of ICT in Teaching and Learning:** Classrooms are equipped with ICT facilities to facilitate interactive teaching methods, Like Smart Classroom with Internet Connection.

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Signature of the Principal, Faculty of Law, IUT

Principal
Faculty of LAW
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Course Code	Experiential Learning	Participative Learning	Problem Solving Methodolies	Anyother Methods	ICT enabled Tools	Any Other Online Resources
LAW AND SOCIAL	Students gather experience	Through esentation, group	Students are given topic relating to		Smart Board	Jstor , Heinonline , Manupatra
FAMILY LAW I	Students accumulate	Through presentation, group	Students are given situation based		Smart Board	Jstor , Heinonline , Manupatra
CRIMINOLOGY AND	Students gain experience	Through presentation, group	Students are given life cases and		Smart Board	Jstor , Heinonline , Manupatra
PROPERTY AND	Students are given various	Presentation, Quiz, Debate etc	In the class different problem and		Smart Board	Jstor , Heinonline , Manupatra
INTERNATIONAL	Students are given various	Class presentation, test, quiz are			Smart Board	Jstor , Heinonline , Manupatra
LAW OF EVIDENCE	Assigning cases and asking	PPP presentation/group	Discussing socio legal problems		Yes, Smart Board	manupatra, research gate,
CODE OF CIVIL	Assigning cases and asking	PPP presentation/group	Discussing socio legal problems		Yes, Smart Board	manupatra, research gate,
TRADITIONAL	Assigning cases and asking	PPP presentation/group	Discussing socio legal problems		Yes, Smart Board	manupatra, research gate,
HUMAN RIGHTS	Assigning cases and asking	PPP presentation/group	Discussing socio legal problems		Yes, Smart Board	manupatra, research gate,
CODE OF CRIMINAL	Assigning cases and asking	PPP presentation/group	Discussing socio legal problems		Yes, Smart Board	manupatra, research gate,
CRIME AND SOCIAL	Assigning cases and asking	PPP presentation/group	Discussing socio legal problems		Yes, Smart Board	manupatra, research gate,
TRADE SECRET AND	Assigning cases and asking	PPP presentation/group	Discussing socio legal problems		Yes, Smart Board	manupatra, research gate,
CONSTITUTIONAL	Constitutional Rights and	Interection, Presentation, seminar	Discussing the constitutional		PPT, Smart Board, Audio	manupatra, research gate,
AFFIRMATIVE	A visit to High Courts	Classroom interactions,	Discussing the challenging		PPT, Smart Board, Audio	manupatra, research gate,
LABOUR LAW I	Standerd Working condition,	Interection, Presentation, Group	Solving given problems of various		PPT, Smart Board, Audio	manupatra, research gate,
JUDICIAL PROCESS	Subjective element of Judges	Interection, Presentation, seminar			PPT, Smart Board, Audio	manupatra, research gate,
INTERPRETATION	To understand the essence of	Interection, Presentation, seminar	Solving given problems of various		PPT, Smart Board, Audio	manupatra, research gate,
LABOUR LAW II	Standerd Working condition,	Interection, Presentation, Group	Solving given problems of various		PPT, Smart Board, Audio	manupatra, research gate,
CONSTITUTIONA	Constitutional Rights and	Interection, Presentation, seminar			PPT, Smart Board, Audio	manupatra, research gate,
PROPERTY AND			Solving given problems of various		PPT, Smart Board, Audio	manupatra, research gate,
LABOUR LAWS	Standerd Working condition,	Interection, Presentation, Group	Solving given problems of various		PPT, Smart Board, Audio	manupatra, research gate,
LAW OF GENERAL	Moot courts, Internships with	Group Discussions, Peer	Case Study Analysis, Identifying	Case-Based Learning, Role-	Online Legal Databases	
FAMILY LAW II	Moot courts, Internships with	Group Discussions, Peer	Case Study Analysis, Identifying	Case-Based Learning, Role-	Online Legal Databases	
LEGAL LANGUAGE	Moot courts, Internships with	Group Discussions, Peer	Case Study Analysis, Identifying	Case-Based Learning, Role-	Online Legal Databases	
VICTIMOLOGY AND	Moot courts, Internships with	Group Discussions, Peer	Case Study Analysis, Identifying	Case-Based Learning, Role-	Online Legal Databases	
CONSTITUTIONAL	Moot courts, Internships with	Group Discussions, Peer	Case Study Analysis, Identifying	Case-Based Learning, Role-	Online Legal Databases	
LAW OF SPECIAL	Mock negotiations, Moot	Group Discussions, Peer	Case Study Analysis, Identifying	Case-Based Learning, Role-	Online Legal Databases	
FAMILY LAW II	Moot courts, Internships with	Group Discussions, Peer	Case Study Analysis, Identifying	Case-Based Learning, Role-	Online Legal Databases	
GENERAL	Moot courts, Internships with	Group Discussions, Peer	Case Study Analysis, Identifying	Case-Based Learning, Role-	Online Legal Databases	
INDIAN PENAL	The concerned students were	Students were encouraged to talk	Some real life problems were	Students were encouraged to	Smart Board was used.	PPT was prepared., Study
CITIZENSHIP &	The Students were engaged in	Students were asked to talk about	A foreigner commits murder in a	Students were encouraged to	Smart Board was used.	PPT was prepared., Study
INDIAN	Students are encouraged to	Students were encouraged to	The students were given the	Students were encouraged to	Smart Board was used.	PPT was prepared., Study
COMPARATIVE	Intra Trial Advocacy	Students presented on innovative	Questions such as, whether a Bill	Students were encouraged to	Smart Board was used.	PPT was prepared., Study
LABOUR LAW II	The students paid their visit in	The students were asked about	The students were asked that, if	Students were encouraged to	Smart Board was used.	PPT was prepared., Study
ENVIRONMENTAL	Physical Visit by the students	The students were asked	The students solved problems, as	Students were encouraged to	Smart Board was used.	PPT was prepared., Study
PROFESSIONAL	Court Visit of the students and	The students solved the	The students raised the question	Students were encouraged to	Smart Board was used.	PPT was prepared., Study
COMPARATIVE	Moot Court Compeditions	The students argued about the	The Students discussed the limit of	Students were encouraged to	Smart Board was used.	PPT was prepared., Study
IMF & WORLD	Knowledge of Business &	Group Discussion	Legal Problems		Smart Board	https://www.imf.org/externa
CONSUMER AND	Knowledge of Competition	Group Discussion	Moot Court ,		Smart Board	https://epgp.inflibnet.ac.in/
COMPANY LAW	Study of the subject with	Group Discussion	Moot Court ,		Smart Board	https://epgp.inflibnet.ac.in/
LEGAL RESEARCH	Complete Study based on	Presentation & Group Discussion	Participation through Legal		Smart Board	LMS MOODLE:
COMPANY LAW	Study of the subject with	Group Discussion	Moot Court ,		Smart Board	https://epgp.inflibnet.ac.in/
LAW OF MERGERS	Going through various Merger	Group Discussion	Moot Court ,		Smart Board	https://www.mmjc.in/wp-

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					Smart Board	https://www.indiacode.nic
ADMINISTRATIVE	Following the Websites of	Group Discussion	Moot Court ,		Smart Board	LMS MOODLE: -
INTERNATIONAL	Gather knowledge by	[redacted]p Discussion	Legal Problems	[redacted]		
CONSTITUTIONAL	Basic knowledge about law,	Group discussion, case-based	Case-Based Learning, collaborative	Debate competition, Assignment		-
FUNDAMENTALS OF	Comprehensive understanding	Group discussion, seminar	Intersection with other disciplines,	Debate competition, Assignment		
BANKRUPTCY &	Knowledge of social	Group discussion, seminar	Intersection with other disciplines,	Debate competition, Assignment		
FORENSIC SCIENCE	Comprehensive knowledge of	Group Discussions, Peer	Case Study Analysis, Identifying	Moot courts, Internships with		
DOCTRINAL & NON-	Comprehensive knowledge of	Group Discussions, Peer	Case Study Analysis, Identifying			
WHITE COLLER	Comprehensive knowledge of	Group Discussions, Peer	Case Study Analysis, Identifying			
LAW OF TORTS AND	Comprehensive knowledge of	Group Discussions, Peer	Case-Based Learning, collaborative			
PIL, LEGAL AID	Providing students with	Group discussion, case-based	Case-Based Learning, collaborative			
INTERNATIONAL	Intra Trial Advocacy based	Group discussion, case-based	Case-Based Learning, collaborative			
INTERNATIONAL	Knowledge of International	peer teaching, case analysis,	Legal solution of case study	Case-Based Learning, Role-	Online Legal Databases	https://drive.google.com/file/
INTERNATIONAL	Knowledge of International	peer teaching, case analysis,	Legal solution of case study	Case-Based Learning, Role-	Online Legal Databases	
INTERNATIONAL	Students are being encouraged	peer teaching, case analysis,	Legal solution of case study	Case-Based Learning, Role-	Online Legal Databases	https://drive.google.com/file/
HUMAN RIGHTS	Knowledge of Human rights	peer teaching, case analysis,	Legal solution of case study	Case-Based Learning, Role-	Online Legal Databases	
Legal Environment of	Internship under Corporate	peer teaching, case analysis,	Legal solution of case study	Case-Based Learning, Role-	Online Legal Databases	https://drive.google.com/file/
WOMEN AND	Students are being encouraged	peer teaching, case analysis,	Legal solution of case study	Case-Based Learning, Role-	Online Legal Databases	https://blog.ipleaders.in/land
ALTERNATIVE	High Court visit for witnessing	peer teaching, case analysis,	Legal solution of case study	Case-Based Learning, Role-	Online Legal Databases	https://drive.google.com/file/
INTELLECTUAL	Mock Filing by the students	peer teaching, case analysis,	Legal solution of case study	Case-Based Learning, Role-	Online Legal Databases	https://byjus.com/frec-ias-
FAMILY LAW II	Moot courts, Internships with	Group Discussions, Peer	Case Study Analysis, Identifying	Case-Based Learning, Role-	Online Legal Databases	National Digital Library of
GENERAL	Moot courts, Internships with	Group Discussions, Peer	Case Study Analysis, Identifying	Case-Based Learning, Role-	Online Legal Databases	National Digital Library of
LAW AND	Moot courts, Internships with	Group Discussions, Peer	Case Study Analysis, Identifying	Case-Based Learning, Role-	Online Legal Databases	National Digital Library of
IPR IN PHARMA	Moot courts, Internships with	Group Discussions, Peer	Case Study Analysis, Identifying	Case-Based Learning, Role-	Online Legal Databases	National Digital Library of
LAW AND	Moot courts, Internships with	Group Discussions, Peer	Case Study Analysis, Identifying	Case-Based Learning, Role-	Online Legal Databases	National Digital Library of
Corporate Legal	Mock negotiations, Moot	Group Discussions, Peer	Case Study Analysis, Identifying	Case-Based Learning, Role-	Online Legal Databases	National Digital Library of
CYBER LAW (LL523)	Moot courts, Internships with	Group Discussions, Peer	Case Study Analysis, Identifying	Case-Based Learning, Role-	Online Legal Databases	National Digital Library of
WOMEN AND	Moot courts, Internships with	Group Discussions, Peer	Case Study Analysis, Identifying	Case-Based Learning, Role-	Online Legal Databases	National Digital Library of
CITIZENSHIP &	The Students were engaged in	Debate and group discussion	Case Study	PPT & Lecture	Smart Board	PDF
FUNDAMENTALS OF	Drafting of Argummets of a	Student's Presentation and group	Case Study	PPT & Lecture	Smart Board	PDF
LAW OF	Mock filing of registration for	Student's Presentation and group	Case Study	PPT & Lecture	Smart Board	PDF
INTELLECTUAL	Involving students in Intra	Student's Presentation and group	Case Study	PPT & Lecture	Smart Board	PDF
LAW OF GENERAL	Internships in law firms ,	Yes , the students contributed	yes , question method has been	extempore speech	Smart Board , e- materials	youtube educational videos
LAW OF EVIDENCE	Court visits , Advocate	The students paricipated through	yes , question has been framed out	Extempore speech	Smart Board , e- materials	videos on the relevance of
PROFESSIONAL	The students visited the court	The students participated through	Yes , question has been framed out	Extempore speech	Smart Board , e- materials	youtube videos
CONSTITUTIONA	High Court visit for witnessing	The students participated through	Yes , question has been framed out	Extempore speech	Smart Board , e- materials	youtube videos on the
LAND LAWS (LL411)	Internships, Moot Courts ,	Debates, Group Discussions	Case studies and Case analysis. the	Framimg of petitions under TLR	Smart Board was regularly	Online Materials, PDF
LAW OF GENERAL	Internships in law firms ,	Debates, Group Discussions	Case studies and Case analysis. the	Framimg of Agreements under	Smart Board was regularly	Online Matterials, PDF
CODE OF CRIMINAL	The students were provided	Debates and case analysis	Case studies and Case analysis. the	Preparation of First Information	Smart Board was regularly	Online Materials, PDF
LAW OF TORTS AND	Visit to District Consumer	Debates and case analysis	case laws	Drafting of Pertition under	Smart Board was regularly	Online Materials, PDF
LAW OF TORTS AND	Visit to District Consumer	Debates and case analysis	case laws	Drafting of Pertition under	Smart Board	PDF
DRAFTING.	Advocate Chamber visit and	Group Discussion.	case study	Class Work relating to the	Smart Board	PDF
LABOUR LAW I	The students paid their visit in	Group Discussion.	case study	Conducting class mediation by	Smart Board	PDF
INDIAN PENAL	Visit to Police stations ,	Group Discussion,Debate	case study	Open forum discussion	Smart Board	PDF
FOREIGN TRADE	Involving students in Client	Group Discussion.		Conducting class mediation by	Smart Board	PDF

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ALTERNATIVE	High Court visit for witnessing	Group Discussion.	case study	Extempore mediation and	Smart Board	PDF
LAND LAWS (LL411)	Visit to Settlement office ,	Group Discussion	Case Study	Presentation of flow chart by the	Smart Board	PDF
LAW OF CARRIAGE,	Involving students in Client	Group Discussion	Case Study	Class Interaction between groups	Smart Board	PDF
COMPARATIVE	Intra Trial Advocacy	Debate	Case Study	Framing of PPT by the students	Smart Board	Video Assisted Learning
INDIAN	Participation in Youth	Group Discussion	Case Study	Case-Based Learning, Workshops	Smart Board	Video Assisted Learning
FAMILY LAW I	Family Court Visits by the	Debate	Case Study	Case Analysis of Landmark	Smart Board	PDF
FAMILY LAW I	The students were consulted	Group Discussion , Role Playing	Problems related to the subject	Case Analysis of Landmark		
FREEDOM OF PRESS	The students were made	Extempore Speech by students	Problems related to the subject	Writing Research papers		
ADMINISTRATIVE	The students were consulted	Conducting Debate and work in	Problems related to the subject	Learning through creating Mock		
ENGLISH	English Grammar &	Debate	Literature part for comprehension	Google Meet/ Hybrid mode	Smart Board	Materials shared in Email
ENGLISH	English Grammar &	Debate	Literature part for comprehension	Google Meet/ Hybrid mode	Smart Board	Materials shared in Email
ENGLISH	English Grammar &	Group Discussion / Interview	Literature part for comprehension	Google Meet/ Hybrid mode	Smart Board	Materials shared in Email
(LLIP502H)	Advocacy compeditions	Group Discussion	Case Study	Power Point Presentations	Smart Board	PDF
MOOT, COURT VISIT, PRE-TRAIL PREPARATION (LLL514C)	Participation in Moot Court and Intra Trial Advocacy Compeditions	Students observe moot court sessions,legal writing and oral advocacy skills, develop analytical thinking, and learn how to think on their feet. Students can also learn about different areas of law, Court	Case Analysis,Oral Advocacy,Mock Presentation	Power Point Presentations	Smart Board	
ACTION AND	Tripura physically to witness	Group Discussion	Case Study	Power Point Presentations	Smart Board	PDF
CONTRACT (LL121)	Banks and Partnership Firms ,	Group Discussion, Debate	Case Study	Power Point Presentations	Smart Board	PDF

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The ICFAI University, Tripura

Established under section 4(2) of the Institute of Chartered Financial Analysts of India University, Tripura Act. 2004
Campus Address : Kamalghat (Near Agartala), PIN - 799210, Tel : 0381-2865752/62, Fax : 0381-2865754
Website : www.iutripura.edu.in, Email : registrar@iutripura.edu.in

Faculty of Liberal Arts

Qualitative Write up
2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences

The Faculty of Liberal Arts emphasizes experiential and participative learning approaches to engage students in their educational journey through certain practices. Such as:

- **Experiential Learning:**
  A. Various methods such as Case Analysis, Projects, dramatization, Survey, field visit, counseling & through various other Practical means of Learning.
  B. Classrooms are equipped with ICT Facilities to facilitate interactive teaching & Learning, e.g., Using of Smart Boards.
  C. Pedagogies are designed to encourage students to find Solution based Practical Academia.

- **Participative Learning:**
  A. Students are encouraged to participate through activities like Extempore, Group Discussions, Debates, Public speaking, Role Play, Classroom Presentation, PPT Presentations, etc.
  B. The curriculum reflects these participative approaches, with internal assessments (various components) focusing on critical thinking & Solution based skills.
  C. Faculty members promote self-learning/practical learning among students rather than traditional teaching methods.

- **Problem-solving:**
  A. Problem-solving skills are developed through various means such as Remedial Classes, Assignments, situation study, Q & A session, Quizzes, MCQ-Tests, and Exams.
  B. Problems are presented in multidisciplinary approaches to encourage holistic learning.

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C. Diverse student backgrounds contribute to a rich learning environment where ideas and opinions are exchanged freely

D. Overall, these approaches foster active engagement, critical thinking, and practical application of knowledge among students, preparing them for real-world challenges.

2.3.2 - Teachers use ICT enabled tools including online resources for effective teaching and **learning processes during the year:**

- **Introduction to ICT-enabled Teaching:** Today, it is essential for the students to learn and master the latest technologies in order to be corporate ready. As a consequence, teachers are combining technology with traditional mode of instruction to engage students in long term learning. College uses Information and Communication Technology (ICT) in education to support, enhances, and optimizes the delivery of education. Teachers leverage ICT tools and online resources for effective teaching learning processes like ERP System & also other methods like Digital Platforms, e.g., Google Meet, Zoom & Google Classroom etc. These also include some of the traditional modes like sharing documents over Gmail & WhatsApp/Telegram.
- **Utilization of ICT in Teaching and Learning:** All Classrooms are equipped with ICT facilities to facilitate interactive teaching methods, like Smart Classroom with Internet Connection.

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Signature of the Principal

Faculty of Liberal Arts, ICFAI

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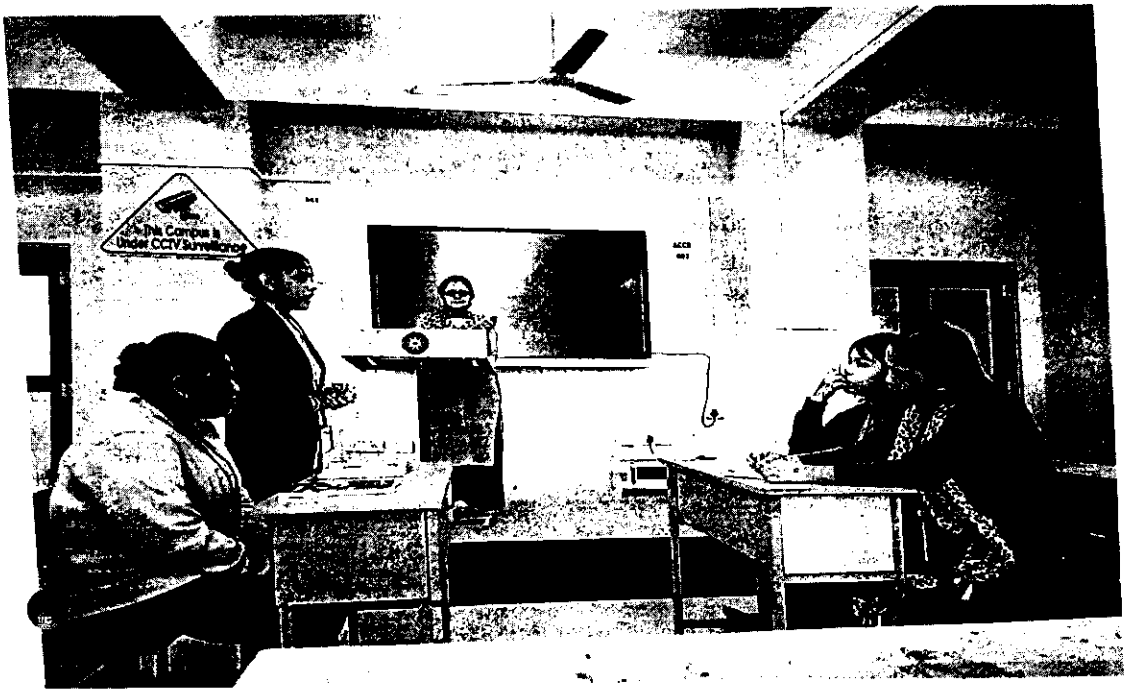
PHOTOGRAPHS OF STUDENT CENTRIC ACTIVITIES



Participant speaking 'For the motion' on the topic "AI- a threat to mankind".

Participants speaking 'Against the motion' on the topic "Offline classes are better than online classes".

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B.A English 2nd year students' Field visit in the month of April 2024, paper - Sociology IV . Purpose of visit: Observation of quality education in primary school. Location: KV Kunjaban, Agartala

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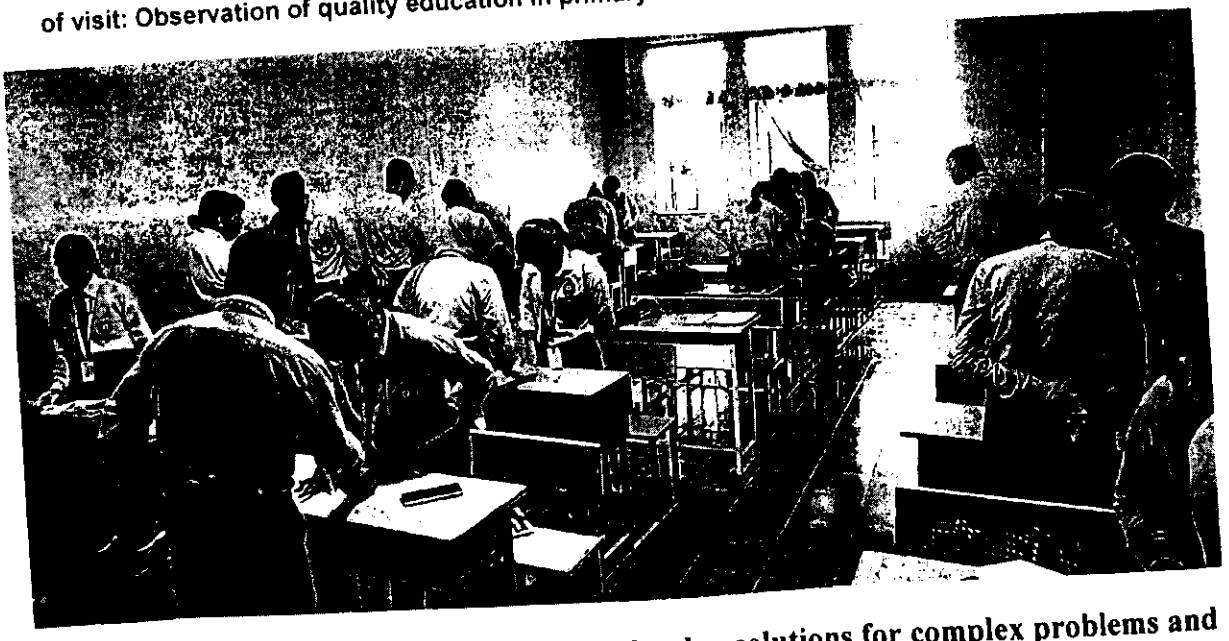
FACULTY OF GENERAL ARTS

B.A English 2nd year students' Field visit in the month of April 2024, paper - Sociology IV . Purpose of visit: Observation of quality education in primary school. Location: KV Kunjaban, Agartala



In a class of Soft Skills Students attempt to develop solutions for complex problems and design solution that meet the specified needs of real-time cases through group analysis, brainstorming etc.

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Students are engaged in Group Discussion which is a part of Student centric teaching method

Field Visit to Kamalghat on 6/4/2024 for mini project on Observation on current status of child marriage in India

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FACULTY OF LIBERAL

Field Visit to Kamalghat on 6/4/2024 for mini project on Observation on current status of child marriage in India

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Course Code	Course Name & Code	Experiential Learning	Participative Learning	Problem-Solving Methodologies	Any Other Methods	ICT enabled tools	Any Other Online Resources
BA English(H) 1st Year,Sem I							
ENG104	Introduction to Literary Studies	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
ENG105	Anglo Saxon to Medieval Period , Rhetoric & Prosody	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
SOC103	Introduction to Sociology(Sec A & B)	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
POL102	Indian Government and Politics	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PSY106	Foundations of Psychology	Survey, counselling, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
EDU101	Principles of Education	Survey, counselling, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
ENG107	English Language Skills	Projects, dramatization, Audio-video method, field visit	Extempore, Presentation, role play	case analysis, situation study		PPT Presentation, Smart Board Usage	
BA English(H) 2nd Year ,Sem I							

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EG213	The Age of Milton & Restoration Period	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
EG223	Indian English Literature-II	projects, field visit	Extempore, Presentation	case analysis		PPT Presentation, Smart Board Usage	
PS123	Political Science-III	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
SC133	Sociology-III(Sec A & B)	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
FR234	Foreign Language (French)	Project, Audio-video method, translation method	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
PSY163	Psychology-III	Survey, counselling, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
BA English(H) 3rd Year , Sem I							
ENG301	Victorian Age	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
ENG302	18th and 19th Century Fiction and Non-Fiction	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
ENG303	Linguistics & Phonetics	Project, Audio-video method, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	

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EGH304	World Literature	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
HPA346	Performative Arts (CBCS)	Projects, dramatization, Audio-video method, field visit	Extempore, Presentation, role play	case analysis, situation study		PPT Presentation, Smart Board Usage	
HSS356	Soft Skills (CBCS)	Projects, audio-video method, Translation method	Group Discussion, Debate, Role Play, Extempore	case analysis, Situation study		PPT Presentation, Smart Board Usage	
BA Psychology (H) 1st Year , Sem I							
PSY106	Foundations of Psychology	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PSY102	Psychology of individual Differences	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
SOC103	Introduction to Sociology	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
POL102	Indian Government and Politics	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
ENG107	English Language Skills						
ENG111	Indian Education System	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
BA Psychology (H) 2nd Year, SEM I							

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PSY201	Development of Psychological Thought	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PSY202	Clinical Psychology	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PS123	Political Science-III	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
SC133	Sociology-III	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
FR 234	Foreign Language (French)	Project, Audio-video method, translation method	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
BA PSY 3rd Year SEM I							
PSY301	Biopsychology	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PSY302	Developmental Psychology	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PSY303	Positive Psychology	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PSY304	Counselling Psychology	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	

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PSY307	Community Psychology	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
MA English 1st Year, SEM I							
ENG411	Medieval to Elizabethan Literature	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
ENG421	Post-Shakespearean to Puritan Literature	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
ENG431	Restoration to Neo-Classical Literature	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
ENG441	Professional Communication	Projects, audio-video method, Translation method	Group Discussion, Debate, Role Play, Extempore, Public speaking	case analysis, Situation study		PPT Presentation, Smart Board Usage	
MA English 2nd Year, SEM I							
ENL211	Literary Theory - I	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
ENG423	American Literature – I	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
ENG433	Linguistic – I	Project, Audio-video method, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	

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ENG443	Literary Criticism - II	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
EGE407	Cultural Studies	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
MA Psychology 1st Year, SEM I							
PSY401	Paradigms of Psychology	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PSY402	Basics of Cognitive Psychology	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PSY403	Application of Cognitive Psychology	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
ENG441	Professional Communication	Projects, audio-video method, Translation method	Group Discussion, Debate, Role Play, Extempore, Public speaking	case analysis, Situation study		PPT Presentation, Smart Board Usage	
MA Psychology 2nd Year, SEM I							
PSY501	Clinical Psychology	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PSY502	Positive Psychology	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	

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PSY503	Theory Construction and Research Design	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PSY513	Qualitative Methods	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PSY504	Psychological Assessment in Clinical Setting (Elective-Practical)	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	

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Course Code	Course Name & Code	Experiential Learning	Participative Learning	Problem-Solving Methodologies	Any Other Methods	ICT enabled tools	Any Other Online Resources
BA English(H) 1st Year, SEM II							
EG142	Renaissance and Elizabethan Age	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
EG213	The Age of Milton & Restoration Period	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
SOC121	Foundation of Social Thought (Elective)	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
POL120	Political Theory (Elective)	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PSY102	Psychology of individual Differences (Elective)	Survey, counselling, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PSY305	Educational Psychology (Elective)	Survey, counselling, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
TA120	Technical Writing	Projects, audio-video method, Translation method	Group Discussion, Debate, Role Play, Extempore	case analysis, Situation study		PPT Presentation, Smart Board Usage	
ENG122	Value Education & Ethics (Elective)	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	

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PHE118P	Sports & Yoga (Elective)	Projects, dramatization, Audio-video method, field visit	Extempore, Presentation, role play	case analysis, situation study		PPT Presentation, Smart Board Usage	
POL121	Indian polity and Economy (Elective)	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
BA English(H) 2nd Year , SEM II							
NCT221	Neo-Classical and Transition Age	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
ERA221	Romantic Age	projects, field visit	Extempore, Presentation	case analysis		PPT Presentation, Smart Board Usage	
PS124	Political Science-IV (Elective)	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
SC134	Sociology IV (Elective)	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PSY164	Psychology IV (Elective)	Survey, counselling, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
BA English(H) 3rd Year , SEM II							
ENG305	20th Century Literature	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	

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ENG306	Literary Criticism & Critical Appreciation	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
ENG307	Basics of Literary Theory	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
BA Psychology (H) 1st Year, SEM II							
PSY103	Psychology: Issues and Applications	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
STAT101	Statistical Methods for Psychological Research	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
TA120	Technical Writing	Projects, audio-video method, Translation method	Group Discussion, Debate, Role Play, Extempore	case analysis, Situation study		PPT Presentation, Smart Board Usage	
POL122	Constitution of India	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
SOC423	Indian Society	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	

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ENG111	Indian Education System	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
BA Psychology (H) 2nd Year, SEM II							
PSY203	Understanding Psychological Disorders	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PSY204	Social Psychology	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PS124	Political Science IV	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
SC134	Sociology IV	Project, Audio-video method, translation method	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
BA PSY 3rd Year, SEM II							
PSY305	Educational Psychology	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	

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PSY306	Psychological Research	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
ENV223	Environmental Studies	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
HPA346	Performative Arts(CBCS)	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
MA English 1st Year, SEM II							
ENG412	Romantic and Victorian Literature	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
ENG422	Modern and Post-Modern Literature	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
ENG432	Literary Criticism I	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
ENG442	Indian Writing in English	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
FR452	Foreign Language (French)	Project, Audio-video method, translation method	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
MA English 2nd Year, SEM II							

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ENL221	Literary Theory	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
ENG424	American Literature- II	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
ENG434	Linguistics-II	Project, Audio-video method, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
EGE405	North-East Literature	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
ENG602	Comparative Literature	Projects, dramatization	Extempore, Presentation	situation study, Q & A session		PPT Presentation, Smart Board Usage	
MA Psychology 1st Year , SEM II							
PSY407	Behaviour & Biology	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PSY404	Developmental Theories & Neuro-developmental Disorder	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PSY406	Personality Studies	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	

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PSY405	Social Psychology	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
STAT102	Statistics in Behavioral Science	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
MA Psychology 2nd Year, SEM II							
PSY506	Neuropsychology	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PSY507	Forensic Psychology	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PSY509	Psychotherapy (Elective-I)	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	
PSY510	Applications of Social Psychology, Strees, Coping & Related Disorder (Elective-II)	Survey, field visit, projects	Group Discussion, Presentation	case analysis, Situation study		PPT Presentation, Smart Board Usage	

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The ICFAI University, Tripura

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Website : www.iutripura.edu.in, Email : registrar@iutripura.edu.in

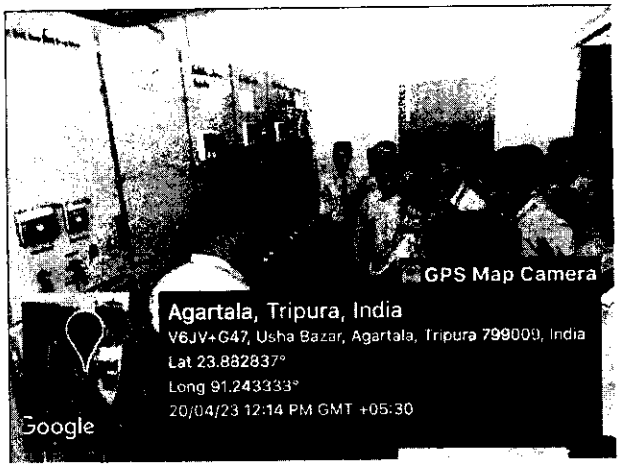
Student Centric Methods Qualitative report

EEE department believes in the adoption of students centric methods to enhance student involvement as a part of participative learning and problem solving methodology. Specifically Students centric Teaching Methods are reflected in project work, Field Visit, Industrial visit & technical talk. Specifically the students centric methodology include:

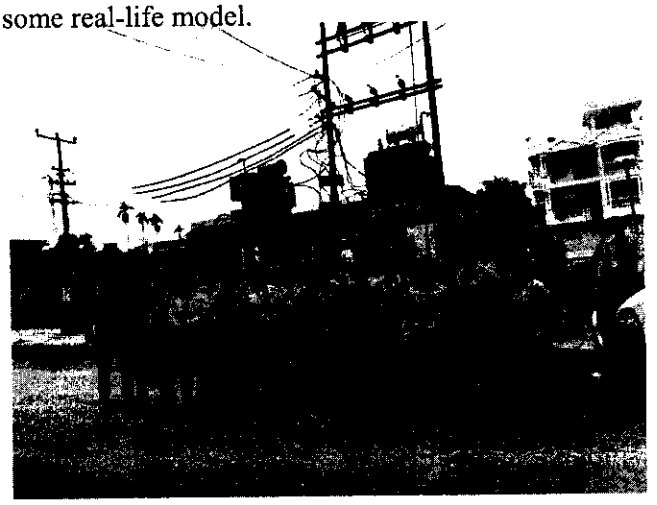
Experimental Learning

EEE department conducts add-on methods to support students in their experiential learning:

1. Laboratory Sessions are conducted with content beyond syllabus experiments.
2. Summer Internship -Students get hands on training while working in the company.
3. Add-on Courses on latest technologies with NPTEL, MOOCS, Coursera etc.
4. Project development on latest technologies by students where they showcase their working model in the technical fest.
5. Industrial Visits to engage them in experiential learning while visiting the organization.
6. Certification Courses (Value Added Courses) by the experts to develop their expertise.
7. Participation in simulated events such as hackathons, paper presentation, model competition etc. where they acquire experience of working on some real-life model.



Airport visit on 23/04/2023



Smart City visit on 30/03/2023

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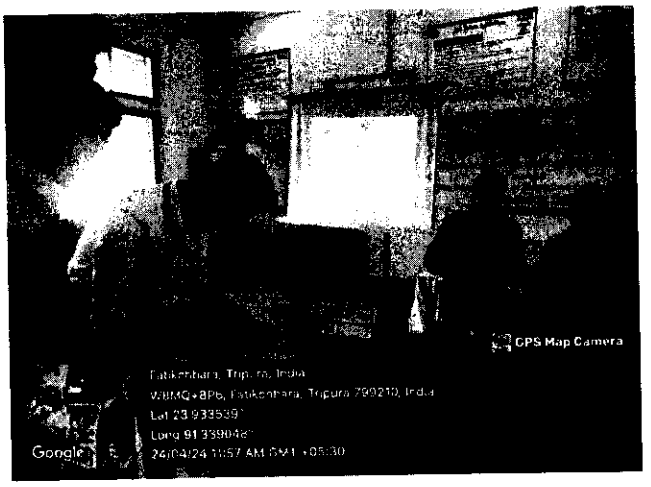

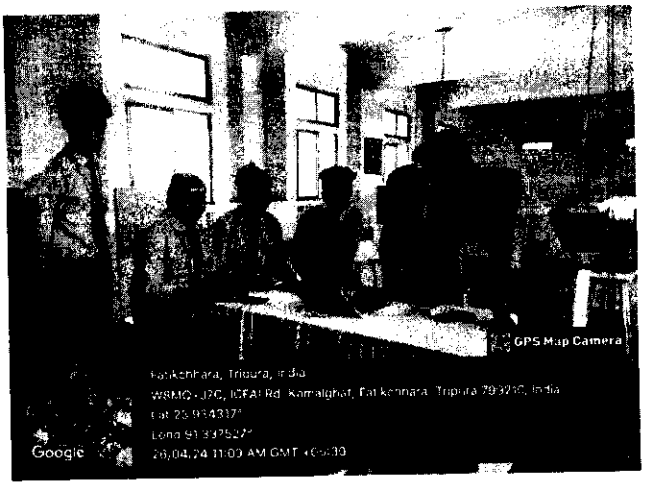

5 days workshop on IOT on 22-26 Apr 2024

Hackathon on 05/06/2019

2. Participatory Learning: In this type of learning, students participate in various activities such as seminar, group discussion, wall papers, projects, and the skill based add on courses. Students are encouraged to participate in activities where they can use their specialized technical or management skills, such as

1. Annual Tech Fest – It is organized every year for engineering students where selected projects are displayed at the larger platform.
2. Annual cultural program – This is organized every year for the students of the college to give a vent to their creativity.
3. Regular Quizzes- Quizzes are organized for student participation at intra or inter college level.
4. Seminar Presentation – Students develop technical skills while presenting papers in seminars.
5. Presentation and publishing of papers in conferences and journals - The objective is to give them exposure to learn and imbibe new skills.
6. MOOC Programs (NPTEL, SAP, COURSERA etc.)

3. Problem-solving methods: EEE department encourage students to acquire and develop problem-solving skills. For this, department organizes/attends expert lectures on various topics, motivate students to join MOOC courses, participate in various inter-college and intra-college technical fests and other competitions such as:

1. In-house summer training with project development.
2. Electrial Auditing of University
3. Bio village project
4. Regular Assignments based on problems

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HOD, Deptt.
Electrical & Electronics Engg
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5. Mini Project development
6. Regular Quizzes
7. Class presentations and Technical talks
8. Debates
9. Participation in Inter college events
10. Model competition organized by IEI or other colleges.

Excursion to smart city 28/12/23

Excursion to Science city 28/12/23

ICT Enabled Tools For Effective Teaching-Learning Process

Today, it is essential for the students to learn and master the latest technologies in order to be corporate ready. As a consequence, teachers are combining technology with traditional mode of instruction to engage students in long term learning. College uses Information and Communication Technology (ICT) in education to support, enhance, and optimize the delivery of education.

The following tools are used by the Department of EEE-

ICT Tools:

1. Projectors- 2 fixed projectors are available in different classrooms. 1 movable projector is available in office.
2. Desktop and Laptops- Arranged at Computer Lab and Faculty cabins all over the campus.
3. Printers- They are installed at HOD cabins and FST office.
4. Photocopier machines - Multifunction printers are available in the institute. There are four photostat machines available in basement room no. 005.
5. Scanners- Multifunction scanner is available in FST office.

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6. Seminar Rooms- Three seminar halls are equipped with all digital facilities.
7. Auditorium-Two digitally equipped with mike, projector, cameras and computer system.
8. Online Classes through Zoom, Google Meet, Microsoft Team, Google Classroom)
9. MOOC Platform (NPTEL, Coursera, SAP, Udemy, Edx etc)
10. Digital Library resources (DEL NET, etc)

Use of ICT by Faculty-

A. **PowerPoint presentations**- Faculties are encouraged to use power-point presentations in their teaching by using LCD's and projectors. They are also equipped by digital library, online search engines and websites to prepare effective presentations.

B. **Industry Connect**- Seminar and Conference room are digitally equipped where guest lectures, expert talks and various competitions are regularly organized for students.

C. **Online quiz**- Faculties prepare online quiz for students after the completion of each unit with the help of GOOGLE FORMS.

D. **Video Conferencing**- Students are counseled with the help of Zoom / Google meet applications.

E. **Video lecture**- Recording of video lectures is made available to students for long term learning and future referencing.

F. **Online competitions**- Various technical events and management events such as Poster presentation, Project presentations, Quiz, Debates, paper presentations etc. are being organized with the help of various Information Communication Tools.

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Course Name & Course Code	Experiential Learning	Participative Learning	Problem Solving Methodolies	Anyother Methods	ICT enabled Tools	Any Other Online Resources
EC315T	Experiments carried out as per theory learning such as resistance temperature, 2nd order system etc.				Use Google class room and Moodle to share the lecture notes and provide assignments	
EE221			Students uses mathematical analysis from experiments done in machine lab		Use Google class room and Moodle to share the lecture notes and provide assignments	
EE321	Students uses experimental data like distribution system parameters, ABCD parameters for data analysis				Use Google class room and Moodle to share the lecture notes and provide assignments	
EE491		Students design hardware models as project and prepares presentation an report for the same.				
EE323T			Students solves power electronics circuits and waveform using lab equipments		Use Google class room and Moodle to share the lecture notes and provide assignments	
EE407					ICT enabled classrooms were used for their presentation as a part of continuous evaluation	
EE492		Students participate in designing application base hardware and implementing their electrical knowledge.				
GV405		A viva is taken by all the faculties on each and every topic, students participate to answer them.				

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2.3.1. Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences.

The curriculum of all the course has been designed keeping in mind student centric approach. To make the student competent, the institute develops systems in which the student gets exposure of professional skills for effective intervention in the fields and acquiring the knowledge of society. Besides the Common teaching method, teachers also use the following methods:

- Lecture cum Demonstration methods (Laboratory experiments)
- Audio-visual method (Power Point presentation and video lessons)
- Group discussion and peer-team teaching
- Problem solving method through assignments
- Seminar presentation
- Experiential learning (Industrial visits, Field visits, study tour and projects)
- Learning by rural visit or local area, with the students visiting the villages or local areas to gain first-hand knowledge of society and building empathy
- Poster presentation
- Preparation and Exhibiting models
- Guided composition and Free composition
- Web-based teaching

Learning is made student-centric in the following ways also:

- Group discussion and case study methods are adopted
- In order to study and understand the psychological perspectives of fresher's admitted in all thecourses, experienced faculty members interact with them. Outcome of this interaction helps the faculty members to plan/adapt/modify appropriate curricular and co-curricular activities during the course of the study.

Apart from the above, students of the university are given training in the following major areas

- Professional skill on the subject studying
- Computer skill
- Analytical skill
- Communication skill/ soft skill/ life skill

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Particulars to be filled related to Student centric methods (2.3) Program/Academic Year - Sem

2.3 - Student centric methods, such as **experiential learning, participative learning and problem-solving methodologies** are used for enhancing learning experiences. **Teachers use ICT enabled tools including online resources for effective teaching and learning processes** during the year.

	Program Name: B.Tech,ECE				**Sem I, AY 2021-22**		
S.N.	Course Name & Code	Experiential Learning	Participative Learning	Problem-Solving Methodologies	Any Other Methods	ICT enabled tools	Any Other Online Resources
1	Digital System Design & ***(EC201)***	Hands on experiments using Universal & digital hardware kit using ICs.	Yes (Students perform experiments in group also)	Design & Implementation of Boolean functions.	Lecture cum Demonstration methods		
2	Special project I ***(EC491)***	Hands on experiments using hardware kit/software	Students make projects in group	Wiring/ Coding /simulation		PC with internet	
3	Digital Communication Practical ***(EC422P)***	Hands on practical using hardware components and Kits.	Students participated in groups to perform the practicals	Problem solving through circuit making, testing and getting the outputs.	Lecture cum Demonstration methods	Some practicals also performed in PC through simulating softwares (Multisim)	
4	Analog Electronics Practical ***(EC313P)***	Hands on practical using hardware components and Kits.	Students participated in groups to perform the practicals	Problem solving through circuit making, testing and getting the outputs.	Lecture cum Demonstration methods	Some practicals also performed in PC through simulating softwares (Multisim)	

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5	Field visit to ONGC	Students visited the OTPC & understood the functioning of thermal power plant	Students have visited & witnessed the ongoing work		understood the functioning of thermal power plant		
	Program Name: B.Tech, ECE				**Sem II, AY 2021-22**		
6	Course Name & Code	Experiential Learning	Participative Learning	Problem-Solving Methodologies	Any Other Methods	ICT enabled tools	Any Other Online Resources
7	Microprocessor & Microcontroller Practical & ***(ECE303P)***	Hands on experiments using hardware kit, microcontroller boards, emulators, IDE software	Yes (Students perform experiments in group also)	Coding in emulators & Simulation	Lecture cum Demonstration methods	PC with internet/ smart boards/ Microprocessor , Microcontroller hardware equipments & software in Lab	
8	Special project II ***(EC492)***	Hands on experiments using hardware kit/software	Students make projects in group	Wiring/ Coding /simulation		PC with internet	
9	Analog and Digital Communication Practical ***(ECE303P)***	Hands on practical using hardware components and Kits.	Students participated in groups to perform the practicals	Problem solving through circuit making, testing and getting the outputs.	Lecture cum Demonstration methods	Some practicals also performed in PC through simulating softwares (Multisim)	

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10	Digital Signal Processing Practical ***(EC 328P)***	Hands on experiments in PC using Scilab, Matlab platforms	Students participated in groups to perform the practicals	Coding, Simulation	Lecture cum Demonstration methods	PC with internet/ Scilab, Matlab softwares	
11	RF and Microwave Engg. Practical ***(EC 430T)***	Hands on practical use of hardware components and equipment.	Students participated in groups to perform the practicals	Problem solving through circuit making, testing and getting the outputs.	Lecture cum Demonstration methods	Some practicals also performed in PC through simulating softwares (Multisim)	
12	CRT ***(CRT301)*** for 3RD year	Career Recruitment Training is included as a subject in the curriculum of B.Tech students	Students practices to enhance presentation skill, soft skill, gesture posture, fluency in English etc.	Presentation, mock interview sessions are conducted.	Lecture & Demonstration methods		
13	Summer Internship Program II ***(SIP201)***	Hands on practical experience in different Industries	Students participated in groups to perform the practical and industry plant visit	Problem solving through circuit making, testing and getting the outputs.			Students get training as intern in different industries.

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14	Summer Internship Program III ***(SIP301)***	Hands on practical experience in different Industries	Students participated in groups to perform the practical and industry plant visit	Problem solving through circuit making, testing and getting the outputs.			Students get training as intern in different industries.
15	Industrial visit to PRAN beverages	Students have witnessed the ongoing functioning of different machineries, the computerized control stations etc	Students experienced the organizational tasks. They have experienced the task of separate machines for separate task.				

- Note: Please provide a one-page qualitative report based on the above data (individual qualitative summaries with illustrations).

	Program Name: B.Tech, ECE				**Sem I, AY 2022-23**		
S.N.	Course Name & Code	Experiential Learning	Participative Learning	Problem-Solving Methodologies	Any Other Methods	ICT enabled tools	Any Other Online Resources

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16	DIGITAL SYSTEM DESIGN ***(EC201)***	Hands on experiments using Universal & digital hardware kit using ICs.	Yes (Students perform experiments in group also)	Design & Implementation of Boolean functions.	Lecture & Demonstration methods		
17	Special project I (EC491)	Hands on experiments using hardware kit/software	Students make projects in group	Wiring/ Coding /simulation	Demonstration methods	PC with internet	
18	VLSI Design Practical ***(EC402P)***	Hands on experiments using hardware and software tools	Students learnt the concepts by performing the experiments by their own	Coding/ simulation/ interfacing hardware boards	Lecture cum Demonstration methods	PC with softwares (Microwind, DSCH, Xilinx ISE)	
19	Analog Electronics Practical ***(EC313P)***	Hands on practical using hardware components and Kits.	Students participated in groups to perform the practicals	Problem solving through circuit making, testing and getting the outputs.	Lecture cum Demonstration methods	Some practicals also performed in PC through simulating softwares (Multisim)	
20	CRT ***(CRT301)*** for 2nd year	Career Recruitment Training is included as a subject in the curriculum of B.Tech students	Students practices to enhance presentation skill, soft skill, gesture posture, fluency in English etc.	Presentation, mock interview sessions are conducted.	Lecture & Demonstration methods		

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21	CRT ***(CRT303)*** for 3rd year	Career Recruitment Training is included as a subject in the curriculum of B.Tech students	Students practices to enhance presentation skill, soft skill, gesture posture, fluency in English etc.	Presentation, mock interview sessions are conducted.	Lecture & Demonstration methods		
22	CRT ***(CRT305)*** for 4th year	Career Recruitment Training is included as a subject in the curriculum of B.Tech students	Students practices to enhance presentation skill, soft skill, gesture posture, fluency in English etc.	Presentation, mock interview sessions are conducted.	Lecture & Demonstration methods		
	Program Name: B.Tech, ECE				**Sem II, AY 2022-23**		
	Course Name & Code	Experiential Learning	Participative Learning	Problem-Solving Methodologies	Any Other Methods	ICT enabled tools	Any Other Online Resources
24	Microprocessor & Microcontroller Practical ***(ECE303P)***	Hands on experiments using hardware kit, microcontroller boards, emulators, IDE software	Yes (Students perform experiments in group also)	Coding in emulators & Simulation	Lecture & Demonstration methods	PC with internet/ smart boards/ Microprocessor , Microcontroller hardware equipments & software in Lab	
25	Special project II ***(EC492)***	Hands on experiments using hardware kit/software	Students make projects in group	Wiring/ Coding /simulation	Demonstration methods	PC with internet	

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26	Digital Signal Processing Practical ***(ES122)***	Hands on experiments in PC using Scilab, Matlab platforms	Students participated in groups to perform the practicals	Coding, Simulation	Lecture &Demonstration methods	PC with internet/ Scilab, Matlab softwares	
27	Analog and Digital Communication Practical ***(ECE303P)***	Hands on practical using hardware components and Kits.	Students participated in groups to perform the practicals	Problem solving through circuit making, testing and getting the outputs.	Lecture cum Demonstration methods	Some practicals also performed in PC through simulating softwares (Multisim)	
28	Digital Signal Processing Practical ***(EC328P)***	Hands on experiments in PC using Scilab, Matlab platforms	Students participated in groups to perform the practicals	Coding, Simulation	Lecture cum Demonstration methods	PC with internet/ Scilab, Matlab softwares	
29	RF and Microwave Engg. Practical ***(EC 430T)***	Hands on practical use of hardware components and equipment.	Students participated in groups to perform the practicals	Problem solving through circuit making, testing and getting the outputs.	Lecture cum Demonstration methods	Some practicals also performed in PC through simulating softwares (Multisim)	
30	Digital Signal Processing ***(ES122)*** For 1st year	Hands on experiments using software	Yes (Students perform hands on experiments in group also)	Coding in SCILAB	Demonstration	PC with internet/ smart boards/ software in Lab	

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31	Workshop on Virtual Lab	Students perform experiments in online virtual simulation Lab	Students perform experiments in group		Lecture cum Demonstration methods	PC with internet	
32	Five Days Workshop on Circuit and System Design Simulators like Proteus, MATLAB and Arduino Simulator Organized	Students perform experiments in online virtual simulation in sofftware	Students perform experiments in group	Design & Implementation of different circuits, programming in Matlab	Lecture cum Demonstration methods	PC with internet	
33	Visit to Orphanage, Bholagiri on 08.06.23	Students gain first-hand knowledge of society and building empathy	Students visited the orphanage & Interacted to the children, distributed sweets to those children.				

- Note: Please provide a one-page qualitative report based on the above data (individual qualitative summaries with illustrations).

	Program Name: B.Tech, ECE	**Sem I, AY 2023-24**

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	Course Name & Code	Experiential Learning	Participative Learning	Problem-Solving Methodologies	Any Other Methods	ICT enabled tools	Any Other Online Resources
34	Introduction to IoT ***(ES213)***	Hands on experiments using hardware kit, microcontroller boards, emulators, IDE software	Yes (Students perform experiments in group also)	Coding in emulators & Simulation	Lecture cum Demonstration methods	Smartphone for controlling IoT device, PC with internet/ smart boards/ Microprocessor , Microcontroller hardware equipments & software in Lab	
35	Theme Project I ***(ESP101)***	Hands on experiments using hardware kit/software	Students make projects in group	Wiring/ Coding /simulation	Lecture & Demonstration methods	PC with internet	
36	Theme Project III ***(ESP201)***	Hands on experiments using hardware kit/software	Students make projects in group	Wiring/ Coding /simulation	Lecture & Demonstration methods	NodeMCU, Microbit, AVR ATMEGA 16, PC with internet	
37	Theme Project V ***(ESP301)***	Hands on experiments using hardware kit/software	Students make projects in group	Wiring/ Coding /simulation	Lecture & Demonstration methods	NodeMCU, Microbit, AVR ATMEGA 16, PC with internet	
38	Special project I ***(EC491)***	Hands on experiments using hardware kit/software	Students make projects in group	Wiring/ Coding /simulation		NodeMCU, Microbit, AVR ATMEGA 16, PC with internet	

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39	VLSI Design Practical ***(EC402P)***	Hands on experiments using hardware and software tools	Students learnt the concepts by performing the experiments by their own	Coding/ simulation/ interfacing hardware boards	Lecture cum Demonstration methods	PC with softwares (Microwind, DSCH, Xilinx ISE)	
40	RF and Microwave Engg. Practical ***(EC 430P)***	Hands on practical use of hardware components and equipment.	Students participated in groups to perform the practicals	Problem solving through circuit making, testing and getting the outputs.	Lecture cum Demonstration methods	Some practicals also performed in PC through simulating softwares (Multisim)	
41	Python Programming ***(CSE416P)***	Hands on experiments using software	Yes (Students perform hands on experiments in group also)	Coding in Open Source IDE	Demonstration	PC with internet/ smart boards/ software in Lab	
42	CRT ***(CRT301)*** for 2nd year	Career Recruitment Training is included as a subject in the curriculum of B.Tech students	Students practices to enhance presentation skill, soft skill, gesture posture, fluency in English etc.	Presentation, mock interview sessions are conducted.	Lecture & Demonstration methods		
43	CRT ***(CRT303)*** for 3rd year	Career Recruitment Training is included as a subject in the curriculum of B.Tech students	Students practices to enhance presentation skill, soft skill, gesture posture, fluency in English etc.	Presentation, mock interview sessions are conducted.	Lecture & Demonstration methods		

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44	CRT *(CRT305)* for 4th year	Career Recruitment Training is included as a subject in the curriculum of B.Tech students	Students practices to enhance presentation skill, soft skill, gesture posture, fluency in English etc.	Presentation, mock interview sessions are conducted.	Lecture & Demonstration methods		
45	Summer Internship Program II *(SIP201)*	Hands on practical experience in different Industries	Students participated in groups to perform the practical and industry plant visit	Problem solving through circuit making, testing and getting the outputs.			Students get training as intern in different industries.
46	Summer Internship Program III *(SIP301)*	Hands on practical experience in different Industries	Students participated in groups to perform the practical and industry plant visit	Problem solving through circuit making, testing and getting the outputs.			Students get training as intern in different industries.
47	Seminar on "AI and ChatGPT"	Students will know about AI platforms specially ChatGPT.	Students will be able to use ChatGPT.		Lecture cum Demonstration methods	PC with internet	
	Program Name: B.Tech, ECE					**Sem II, AY 2023-24**	

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	Course Name & Code	Experiential Learning	Participative Learning	Problem-Solving Methodologies	Any Other Methods	ICT enabled tools	Any Other Online Resources
48	Microprocessor & Microcontroller Practical ***(ECE303P)***	Hands on experiments using hardware kit, microcontroller boards, emulators, IDE software	Yes (Students perform hands on experiments in group also)	Coding in emulators & Simulation	Lecture cum Demonstration methods	PC with internet/ smart boards/ Microprocessor , Microcontroller hardware equipments & software in Lab	
49	Web Technology ***(CSE223)***	Hands on experiments using software	Yes (Students perform hands on experiments in group also)	Coding in software , use of local server	Demonstration	PC with internet/ smart boards/ software in Lab	
50	Theme Project II **(ESP111)**	Hands on experiments using hardware kit/software	Students make projects in group	Wiring/ Coding /simulation	Lecture & Demonstration methods	PC with internet	
51	Theme Project IV **(ESP211)**	Hands on experiments using hardware kit/software	Students make projects in group	Wiring/ Coding /simulation	Lecture & Demonstration methods	NodeMCU, Microbit, AVR ATMEGA 16, PC with internet	
52	**Theme Project VI (ESP311)**	Hands on experiments using hardware kit/software	Students make projects in group	Wiring/ Coding /simulation	Lecture & Demonstration methods	NodeMCU, Microbit, AVR ATMEGA 16, PC with internet	
53	Special project II ***(EC492)***	Hands on experiments using hardware kit/software	Students make projects in group	Wiring/ Coding /simulation		NodeMCU, Microbit, AVR ATMEGA 16, PC with internet	

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54	Digital Signal Processing Practical ***(ES122)***	Hands on experiments in PC using Scilab, Matlab platforms	Students participated in groups to perform the practical	Coding, Simulation	Lecture & Demonstration methods	PC with internet/ Scilab, Matlab softwares	
55	CRT ***(CRT302)*** for 2nd year	Career Recruitment Training is included as a subject in the curriculum of B.Tech students	Students practices to enhance presentation skill, soft skill, gesture posture, fluency in English etc.	Presentation, mock interview sessions are conducted.	Lecture & Demonstration methods		
56	CRT ***(CRT304)*** for 3rd year	Career Recruitment Training is included as a subject in the curriculum of B.Tech students	Students practices to enhance presentation skill, soft skill, gesture posture, fluency in English etc.	Presentation, mock interview sessions are conducted.	Lecture & Demonstration methods		
57	CRT ***(CRT306)*** for 4th year	Career Recruitment Training is included as a subject in the curriculum of B.Tech students	Students practices to enhance presentation skill, soft skill, gesture posture, fluency in English etc.	Presentation, mock interview sessions are conducted.	Lecture & Demonstration methods		
58	Hardware Modelling using Verilog Lab ***(ECE220)***	Hands on experiments using VLSI kit & software	Yes (Students perform hands on experiments in group also)	Simulation	Demonstration method	PC with internet/ smart boards/ hardware equipments & software in Lab	

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59	CRT ***(CRT302)*** for 2nd year	Career Recruitment Training is included as a subject in the curriculum of B.Tech students	Students practices to enhance presentation skill, soft skill, gesture posture, fluency in English etc.	Presentation, mock interview sessions are conducted.	Lecture & Demonstration methods		
60	CRT **(CRT304)** for 3rd year	Career Recruitment Training is included as a subject in the curriculum of B.Tech students	Students practices to enhance presentation skill, soft skill, gesture posture, fluency in English etc.	Presentation, mock interview sessions are conducted.	Lecture & Demonstration methods		
61	CRT **(CRT306)** for 4th year	Career Recruitment Training is included as a subject in the curriculum of B.Tech students	Students practices to enhance presentation skill, soft skill, gesture posture, fluency in English etc.	Presentation, mock interview sessions are conducted.	Lecture & Demonstration methods		
62	**Value Added Course (VAC201):** Introduction to Different Software Simulation and Programming Execution	Hands on experiments using Proteus, Microchip Studio, Arduino IDE software	Yes (Students perform hands on experiments in group also)	Coding in emulators & Simulation	Lecture cum Demonstration methods	PC with internet/ TinkerCAD (online) and Proteus simulator, Microchip Studio, Arduino IDE	
63	Digital Signal Processing Practical ***(EC 328P)***	Hands on experiments in PC using Scilab, Matlab platforms	Students participated in groups to perform the practical	Coding, Simulation	Lecture cum Demonstration methods	PC with internet/ Scilab, Matlab softwares	

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64	RF and Microwave Engg. Practical ***(EC 430T)***	Hands on practical use of hardware components and equipment.	Students participated in groups to perform the practical	Problem solving through circuit making, testing and getting the outputs.	Lecture cum Demonstration methods	Some practicals also performed in PC through simulating softwares (Multisim)	
65	Summer Internship Program I ***(SIP101)***	Hands on practical experience in different Industries	Students participated in groups to perform the practical and industry plant visit	Problem solving through circuit making, testing and getting the outputs.			Students get training as intern in different industries.
66	Summer Internship Program III **(SIP301)**	Hands on practical experience in different Industries	Students participated in groups to perform the practical and industry plant visit	Problem solving through circuit making, testing and getting the outputs.			Students get training as intern in different industries.

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67	Industry Visit to Maharaja Bir Bikram Airport, Agartala	Students learnt about air traffic control from experts. Student visited the ATC tower. Students also have visited the other sections of Airport & observed the ground work, security sections, arrival & departure sections. They have visited the office of airport Director. The visited the communication room there & get familiar with voice modulation equipments. They visited the server rooms, networking rooms and witnessed the functioning.	Students have visited & witnessed the ongoing work.				
68	2 Days Technical Workshop on "Embedded System Design with Advanced Technology"	Design special functioning tools using Embedded System	Students perform hands on experiments during the workshop.		Lecture & Demonstration methods	NodeMCU, Microbit, AVR ATMEGA 16, PC with internet	

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The ICFAI University, Tripura

(Established under Section 4(2) of The Institute of Chartered Financial Analysts of India University, Tripura Act 2004)
Campus address: Kamalghat (near Agartala), PIN–799210, Tel: 0381- 2865752/62 Fax: 2865-754
Website: www.iutripura.edu.in E-mail: registrar@iutripura.edu.in

Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experience and teachers use ICT-enabled tools including online resources for effective teaching learning process

The department has meticulously crafted its curriculum around a student-centric approach aimed at fostering competence and professional skills. This initiative is driven by a commitment to equipping students with the ability to effectively intervene in various fields and understand societal dynamics. Experiential learning lies at the heart of our pedagogical strategy, encompassing a variety of methods:

- Laboratory experiments vividly demonstrate theoretical concepts.
- PowerPoint presentations enriched with photographs and animation videos facilitate comprehensive student understanding.
- Industrial visits and Industrial Excursions provide firsthand exposure to real-world applications, bridging the gap between theory and practice in Mechanical Engineering.
- Semester-wise theme projects engage 1st, 2ndand 3rd year students and semester-wise special project engage final year students, encouraging the application of engineering knowledge to develop and analyze working systems.
- Smartboard-enabled web-based teaching enhances interactive learning experiences.

Our participative learning methods further empower students:

- Group discussions on emerging topics during Corporate Recruitment Training classes stimulate intellectual exchange.
- Collaborative model development using recycled materials fosters teamwork and creativity.
- Marketing exercises sharpen students' salesmanship as they promote their developed models.
- Seminar presentation by students where the teachers evaluate the student's skill to deliver lecture, content of the presentation and their response in the question and answer (Q&A) session.
- Poster presentation of the research work conducted by the students, in the national/international conference, seminar and workshop.

Problem-solving methodologies are ingrained in our teaching approach:

- Engineering-related assignments challenge students to apply their knowledge.
- Numerical problem-solving exercises strengthen analytical skills.
- Practical case studies provide insights into real-world challenges.

Embracing ICT-enabled tools is integral to our mission of nurturing innovative, career-oriented professionals:

- Faculty members leverage Smartboards, MS Office, Adobe Photoshop, E-learning technologies, desktops, and laptops to enrich the teaching-learning process.
- This integration of ICT tools enhances the quality and effectiveness of education, ensuring our students are well-prepared for the technologically-driven global landscape.

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In adapting to the evolving demands of the modern world dominated by ICTs, our department remains steadfast in its commitment to delivering high-quality education that prepares students for future success.

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Course Name & Course Code	Experiential Learning	Participative Learning	Problem Solving Methodolies	Anyother Methods	ICT enabled Tools	Any Other Online Resources
Manufacturing Processes Practical (ME302P), Dynamics of Machinery &	Laboratory experiments					
Fluid mechanics and hydraulic machines (ES208)	Model demonstration. PowerPointons.	Seminar presentation.	Engineering-related assignments. Numerical problem-solving exercises.		Smartboards, MS Office, Adobe Photoshop, E-learning technologies, desktops and laptops	
Mechanical Measurement And Metrology (ME402)	PowerPoint presentations enriched with photographs and animation videos. Model demonstration. Web-based teaching using Smartboard	Quiz. Group discussions. Seminar presentation.	Engineering-related assignments. Numerical problem-solving exercises.		Smartboards, MS Office, Adobe Photoshop, E-learning technologies, desktops and laptops	
IC Engines (ME312T)	PowerPoint presentations enriched with photographs and animation videos. Model demonstration. Web-based teaching using Smartboard	Quiz. Group discussions. Seminar presentation.	Engineering-related assignments. Numerical problem-solving exercises. Practical case studies		Smartboards, MS Office, Adobe Photoshop, E-learning technologies, desktops and laptops	Animation or actual working videos of Engineering systems from Youtube
Computational Fluid Dynamics (ME411)	PowerPoint presentations enriched with photographs and animation videos. Web-based teaching using Smartboard	Quiz. Group discussions. Seminar presentation.	Engineering-related assignments. Numerical problem-solving exercises.		Smartboards, MS Office, Adobe Photoshop, E-learning technologies, desktops and laptops	Animation or actual working videos of Engineering systems from Youtube
Material Science (ME206)	PowerPoint presentations enriched with photographs and animation videos. Model demonstration. Web-based teaching using Smartboard	Quiz. Group discussions. Seminar presentation. Collaborative model development	Engineering-related assignments. Numerical problem-solving exercises.		Smartboards, MS Office, Adobe Photoshop, E-learning technologies, desktops and laptops	Animation or actual working videos of Engineering systems from Youtube
	Industrial Excursion at IT BhavanIndranagar, Dasamighat and Science City Agartala					
Theme project (ESP101, ESP201, ESP301)	Theme projects for 1st, 2nd and 3rd year students					
Special project (ME491)	Special project for final year students					

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Corporate recruitment training (CRT301, CRT303, CRT305)	Marketing exercise. Group discussions. Seminar presentation.					
Machine tools Practical (ME325P), Digital Fibrication(ES123), Heat and Mass Transfer Practical (ME324P), Refrigeration and Air-Conditioning Practical (ME424P), Workshop (TA122)	Laboratory experiments					
Thermodynamics (ES224)	PowerPoint presentations enriched with photographs and animation videos Web-based teaching using Smartboard	Group discussions. Seminar presentation.	Engineering-related assignments. Numerical problem-solving exercises.		Smartboards, MS Office, Adobe Photoshop, E-learning technologies, desktops and laptops	
Robotics vision and control (ME327)	PowerPoint presentations enriched with photographs and animation videos. Model demonstration. Web-based teaching using Smartboard	Collaborative model development. Group discussions. Seminar presentation.	Engineering-related assignments. Numerical problem-solving exercises.		Smartboards, MS Office, Adobe Photoshop, E-learning technologies, desktops and laptops	
Finite element Methods (ME429)	PowerPoint presentations enriched with photographs and animation videos.	Group discussions. Seminar presentation.	Engineering-related assignments. Numerical problem-solving		Smartboards, MS Office.	
Heat and Mass Transfer (ME324T)	PowerPoint presentations enriched with photographs and animation videos. Model demonstration.	Group discussions. Seminar presentation.	Engineering-related assignments. Numerical problem-solving		Smartboards, MS Office.	Animation or actual working videos of Engineering systems from Youtube
Refrigeration and Air-Conditioning (ME424T)	PowerPoint presentations enriched with photographs and animation videos	Group discussions. Seminar presentation. Quiz	Engineering-related assignments. Numerical problem-solving exercises.		Smartboards, MS Office, Adobe Photoshop, E-learning technologies, desktops and laptops	Animation or actual working videos of Engineering systems from Youtube
	Industrial Excursion at CIPET Agartala					
	Industrial Visit at Baramura Gas Thermal Power Plant					

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Theme project (ESP111, ESP211, ESP311)	Theme projects for 1st, 2nd and 3rd year students					
Special project (ME492)	Special project for final year students					
Corporate recruitment training (CRT302, CRT304, CRT306)		Marketing exercise. Group discussions.				
		Poster presentation in the international conference				

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Particulars to be filled related to Student centric methods (2.3) Program/Academic Year - Sem

2.3 - Student centric methods, such as **experiential learning, participative learning and problem-solving methodologies** are used for enhancing learning experiences. **Teachers use ICT enabled tools including online resources for effective teaching and learning processes** during the year.

Program Name: B.Tech. in Civil EngineeringSem I, AY 2021-22						
Course Name & Code	Experiential Learning	Participative Learning	Problem-Solving Methodologies	Any Other Methods	ICT enabled tools	Any Online Resources
Engineering Hydrology (CE431)		Conducted Group Discussions	Assigned Practical based problem on Hydrology		Projectors, YouTube, Google Meet, MS Word	
Geotechnical Engineering-I (CE314T)		Conducted Group Discussions	Assigned Practical based problem on Geotechnical Engineering		Used Electronic Tablets to take online classes	https://iutripura.gnomio.com/course/edit.php?id=272
Geotechnical Engineering-I Practical (CE314P)	Experimental study of soil and determination of its properties by laboratory experiments					

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Design of Concrete Structures-I (CE313)		Conducted Group Discussions	Assigned Practical based problem on Concrete and RCC structures		Used Electronic Tablets to take online classes	https://iutripura.gnomio.com/report/view.php?courseid=103
Surveying Field Work CE201P	Actual planning of building and road works by Total station instrument.			Total station instrument		
Fluid Mechanics & Hydraulic Machine Practical ES205P	Experimental flow analysis by laboratory experiments					
Concrete Technology Practical CE325P	Experimental study of concrete and its components by laboratory experiments					
Special Project-I CE491		Practical application of civil engineering knowledge		Seminar presentation		

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Program Name: B.Tech. in Civil EngineeringSem II, AY 2021-22						
Course Name & Code	Experiential Learning	Participative Learning	Problem-Solving Methodologies	Any Other Methods	ICT enabled tools	Any Online Resources
Irrigation and Water Resource Engineering (CE433)		Conducted Group Discussions	Assigned Practical based problem on designing of Dam structure		Projectors, YouTube, Google Meet, MS Word	
Geotechnical Engineering-II (CE324)		Conducted Group Discussions	Assigned Practical based problem on Geotechnical and Foundation Engineering		Used Electronic Tablets to take online classes	
Mechanics of Solids Practical ES223P	Solid mechanics analysis by practical.					
Design of Concrete Structure-II Practical CE327P	Experimental study of concrete structural details by laboratory experiments					

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Transportation Engineering-I Practical CE326P	Experimental study of transportation engineering					
Environmental Engineering Practical CE452P	Experimental study of environmental engineering					
Special Project II CE492		Seminar presentation		MS Office		
Grand Viva GV401		Group Discussion				

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The curriculum of all the course has been designed keeping in mind student centric approach. To make the student competent, the institute develops systems in which the student gets exposure of professional skills for effective intervention in the fields and acquiring the knowledge of society. Besides the Common teaching method, teachers also use the following methods:

Lecture cum Demonstration methods (Laboratory experiments)
Audio-visual method (Power Point presentation and video lessons)
Group discussion and peer-team teaching
Problem solving method through assignments
Seminar presentation
Experiential learning (Industrial visits, Field visits, study tour and projects)
Learning by rural visit, with the students visiting the villages, living with the villagers andparticipating in their day-to-day activities to gain first-hand knowledge of society and building empathy
Participating in supportive services of the disabled
Poster presentation
Preparation and Exhibiting models
Guided composition and Free composition
Web-based teaching

Learning is made student-centric in the following ways also:

Remedial coaching classes are conducted to the slow learners after the working hours.
Group discussion and case study methods are adopted
In order to study and understand the psychological perspectives of fresher's admitted in all thecourses, experienced faculty members interact with them. Outcome of this interaction helps the faculty members to plan/adapt/modify appropriate curricular and co-curricular activities during the course of the study.

Apart from the above, students of the university are given training in the following major areas

Professional skill on the subject studying
Computer skill
Analytical skill
Communication skill/ soft skill/ life skill

ICT-enabled tools: The usage of these ICT tools by the faculties according to their requirement has undoubtedly upgraded theteaching learning process in the department. Keeping in mindthe rapidly changing world that is dominated by ICTs, the department is determined to improve the quality education imparted in the University. In order to enhance the quality of teaching-learning, various ICT tools are used by the teachers such as Smartboard, MS Office, Adobe Photoshop, E-learning technology, Desktop and Laptops.

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Program Name: B.Tech. in Civil EngineeringSem I, AY 2022-23						
Course Name	Experiential Learning	participative learning	problem-solving methodologies	Any Other Methods	ICT enabled tools	Any Online Resources
Engineering Hydrology (431)		Conducted Group Discussions	Assigned Practical based problems on plan, estimation and cost analysis of Civil Engineering structures		Projectors, YouTube, Google Meet, MS Word	
Geotechnical Engineering-I Practical (CE314P)	Experimental study of soil and determination of its properties by laboratory experiments					
Civil Engineering Estimation and Costing (CE225)		Conducted Group Discussions	Assigned Practical based problem on Geotechnical and Foundation Engineering		Used Electronic Tablets to take online classes	

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Geotechnical Engineering-II (CE324)		Conducted Group Discussions	Assigned Practical based problem on designing of Concrete and RCC structures			https://iutripura.gnomio.com/course/view.php?id=610
Design of Concrete Structures-II (CE327)	Experimental study of concrete structural details by laboratory experiments					
Surveying Field Work CE201P	Actual planning of building and road works by Total station instrument.			Total station instrument		
Fluid Mechanics & Hydraulic Machine Practical ES205P	Experimental flow analysis by laboratory experiments					
Geotechnical Engineering Practical CE314P	Experimental study of soil mechanics by laboratory experiments					

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Concrete Technology Practical CE325P	Experimental study of concrete and its components by laboratory experiments					
Special Project-I CE491	Practical application of civil engineering knowledge	Seminar presentation				

Program Name: B.Tech. in Civil Engineering **Sem II, AY 2022-23**

Course Name	Experiential Learning	participative learning	problem-solving methodologies	Any Other Methods	ICT enabled tools	Any Online Resources
Concrete Technology ,CE325T		Conducted Group Discussions	Assigned Practical problem on designing different grade of concrete considering Indian Standard			
Estimation and Costing in Civil Engineering,CE225		Conducted Group Discussions	Assigned Practical based problems on plan, estimation and cost analysis of Civil Engineering structures			
Corporate Recruitment Training CRT		Seminar presentation				

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Soft Computing Techniques VACE401						
Mechanics of Solids Practical ES223P	Solid mechanics analysis by practical.					
Design of Concrete Structure-II Practical CE327P	Experimental study of concrete structural details by laboratory experiments					
Transportation Engineering-I Practical CE326P	Experimental study of transportation engineering					
Environmental Engineering Practical CE452P	Experimental study of environmental engineering					
Special Project II CE492		Seminar presentation		MS Office		

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Grand Viva GV401		Group Discussion				

The curriculum of all the course has been designed keeping in mind student centric approach. To make the student competent, the institute develops systems in which the student gets exposure of professional skills for effective intervention in the fields and acquiring the knowledge of society. Besides the Common teaching method, teachers also use the following methods:

Lecture cum Demonstration methods (Laboratory experiments)
Audio-visual method (Power Point presentation and video lessons)
Group discussion and peer-team teaching
Problem solving method through assignments
Seminar presentation
Experiential learning (Industrial visits, Field visits, study tour and projects)
Learning by rural visit, with the students visiting the villages, living with the villagers andparticipating in their day-to-day activities to gain first-hand knowledge of society and building empathy
Participating in supportive services of the disabled
Poster presentation
Preparation and Exhibiting models
Guided composition and Free composition
Web-based teaching

Learning is made student-centric in the following ways also:

Remedial coaching classes are conducted to the slow learners after the working hours.
Group discussion and case study methods are adopted
In order to study and understand the psychological perspectives of fresher's admitted in all thecourses, experienced faculty members interact with them. Outcome of this interaction helps the faculty members to plan/adapt/modify appropriate curricular and co-curricular activities during the course of the study.

Apart from the above, students of the university are given training in the following major areas

Professional skill on the subject studying
Computer skill
Analytical skill
Communication skill/ soft skill/ life skill

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ICT-enabled tools: The usage of these ICT tools by the faculties according to their requirement has undoubtedly upgraded theteaching learning process in the department. Keeping in mindthe rapidly changing world that is dominated by ICTs, the department is determined to improve the quality education imparted in the University. In order to enhance the quality of teaching-learning, various ICT tools are used by the teachers such as Smartboard, MS Office, Adobe Photoshop, E-learning technology, Desktop and Laptops.

Program Name: B.Tech. in Civil EngineeringSem I, AY 2023-24						
Course Name	Experiential Learning	participative learning	problem-solving methodologies	Any Other Methods	ICT enabled tools	Any Online Resources
Engineering Hydrology (431)		Group discussion	Assignments	Desktop and Laptops	Smartboard	
Emerging Trends on Civil Engineering,CE426		Conducted Group Discussions	Assigned different application of advanced software in civil engineering filed		Smartboard, MS PowerPoint, Google Docs	https://iutripura.gnomio.com/course/view.php?id=270
Design of Steel Structures I (CE312)	Small group assignments				Smartboard, MS PowerPoint	https://iutripura.gnomio.com/course/view.php?id=792

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Structural Dynamics (CE417)	Small group assignments				Smartboard, MS PowerPoint	
Emerging trends on Civil Engineering (CE426)	Small group assignments	Case studies, Brainstorming, Participatory discussion	Assigned different application of advanced software in civil engineering filed		Smartboard, MS PowerPoint, Google Docs	https://iutripura.gnomio.com/course/view.php?id=270
Dynamics of Structures (CE523)	Small group assignments				MS PowerPoint, Google Docs	
Geotechnical Engineering-I (CE314T)			Assigned Practical based problem on Geotechnical Engineering		Uses Smart Board	https://iutripura.gnomio.com/course/edit.php?id=272
Design of Concrete Structures-I (CE313)			Assigned Practical based problem on Concrete and RCC structures		Uses Smart Board	
Corporate Recruitment Training I CRT301		Group discussion	Assignments	Desktop and Laptops	Smartboard	

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Corporate Recruitment Training II CRT302	Power Point presentation	Model development				
Surveying Field Work CE201P	Actual planning of building and road works by Total station instrument.			Total station instrument		
Fluid Mechanics & Hydraulic Machine Practical ES205P	Experimental flow analysis by laboratory experiments					
Geotechnical Engineering Practical CE314P	Experimental study of soil mechanics by laboratory experiments					
Concrete Technology Practical CE325P	Experimental study of concrete and its components by laboratory experiments					

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Special Project-I CE491		Practical application of civil engineering knowledge			Desktop and Laptops	Smartboard
Soil Mechanics (CE227)	Experimental study of soil and determination of its properties by laboratory experiments	Delivered Power Point Presentation	Assigned Practical based problem on Geotechnical Engineering		Uses Smart Board	https://iutripura.gnomio.com/course/view.php?id=425#section-0
Program Name: B.Tech. in Civil EngineeringSem II, AY 2023-24						
Course Name	Experiential Learning	participative learning	problem-solving methodologies	Any Other Methods	ICT enabled tools	Any Online Resources
Water Resources Engineering (CE226)		Group discussion	Assignments	Desktop and Laptops	Smartboard	
Design of Concrete Structures-II ,CE327T		Conducted Group Discussions	Assigned Practical based problem on designing of Concrete and RCC structures		Uses Smart Board	

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Irrigation and Water Resources Engineering,CE433		Conducted Group Discussions	Assigned Practical based problem on designing of Dam structure		Uses Smart Board	
Repair and Rehabilitation of Structures, CE546		Conducted Group Discussions	Assigned Practical based problem on designing of Retrofitting RC structures		Uses Smart Board	
Geotechnical Engineering-II (CE324)		Group discussion	Assignments	Desktop and Laptops	Smartboard	https://iutripura.gnomio.com/course/view.php?id=610
Industry coding practice (Python and R) ES225		Group discussion	Assignments	Desktop and Laptops	Smartboard	
Theme Project II ESP111	Seminar presentation			Desktop and Laptops	Smartboard	
Theme Project IV ESP211	Seminar presentation			Desktop and Laptops	Smartboard	

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Theme Project VI ESP311	Seminar presentation			Desktop and Laptops	Smartboard	
Corporate Recruitment Training III CRT303		Group Discussion		Desktop and Laptops	Smartboard	
Mechanics of Solids Practical ES223P	Solid mechanics analysis by practical.					
Design of Concrete Structure-I I Practical CE327P	Experimental study of concrete structural details by laboratory experiments					
Transportation Engineering-I Practical CE326P	Experimental study of transportation engineering					

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Environmental Engineering Practical CE452P	Experimental study of environmental engineering					
Special Project II CE492		Seminar presentation		Desktop and Laptops	Smartboard	
Grand Viva GV401		Group Discussion				

Student centric methods, such as experiential learning, participative learning andproblem solving methodologies are used for enhancing learning experience and teachers use ICT-enabled tools including online resources for effective teaching learning process. In the department, the curriculum of all the courses has been designed focusing on student centric approach. To make the student competent, the department develops systems in which the student gets exposure of professional skills for effective intervention in the fields and acquiring the knowledge of society.

Experiential learning methods adopted in the department includes:

Demonstration of theoretical concepts by Laboratory experiments.

Power Point presentation with photographs of actual systems and animation videos for easy understanding of the students

Industrial visits for practical knowledge and understanding of real world applications of the Civil Engineering.

Projects- Theme project for 1st, 2nd and 3rd year students and special project for final year B.Tech students are done semester-wise for applying their knowledge gained in the Engineering courses, to development of working system and its analysis.

Participative learning methods adopted in the department includes:

Group discussion among the students on various emerging topics, in the Corporate Recruitment Training (CRT) class.

Preparation and Exhibiting models (team work) - Model development using waste materials (best out of waste) by student groups.

The student groups practice marketing skill to convince and sell their developed model.

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Seminar presentation by students where the teachers evaluate the student's skill to deliver lecture, content of the presentation and their response in the question and answer (Q&A) session.

Poster presentation of the research work conducted by the students, in the national/international conference, seminar and workshop.

Problem solving methodologies followed in the department are as follows:

The teachers provide assignments to solve Engineering related problems.

Case study of practical problems.

Numerical problem solving.

ICT-enabled tools: The usage of these ICT tools by the faculties according to their requirement has undoubtedly upgraded theteaching learning process in the department. Keeping in mindthe rapidly changing world that is dominated by ICTs, the department is determined to improve the quality education imparted in the University. In order to enhance the quality of teaching-learning, various ICT tools are used by the teachers such as Smartboard, MS Office, Adobe Photoshop, E-learning technology, Desktop and Laptops.

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Program Name: B.Tech (CSE), BCA/MCA Sem I, AY 2021-22						
Course Name & Code	Experimental Learning	Participative Learning	Problem-Solving Methodologies	Any Other Methods	ICT enabled tools	Any Online Resources
Object Oriented Programming through C++ Practical (CS221P)	Open Source Contributions, Code reviews, lab manual experiments		Real-time application implementation, Project work			
Data structures & Algorithm practical (CS314P)	Open Source Contributions, Code reviews, real-time application, lab manual experiments		Real-time application implementation, Project work			
Data Communication and Computer Networks Practical (CS325P)	Open Source Contributions, Configuring and troubleshootin g networks, lab manual experiments		Real-time application implementation, Project work & simulation			
Operating System practical(CS313P)	Open-source OS projects, Lab manual experiments		Real-time application implementation, Project work			
Microprocessor and Microcontrollers Practical(ECE303P)	Lab manual experiments		Simulation			NPTEL, SWAYAM
Python Programming Practical(CS416P)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			

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AI, Machine Learning & DL practical(AIML401P)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			NPTEL, SWAYAM
Special Project 1(CSE451)		Group-wise Project	Real-time application implementation, Project work		MSoffice, Smart Board,Turnitin,	NPTEL, SWAYAM

Program Name: B.Tech (CSE), BCA/MCA Sem II, AY 2021-22

Course Name & Code	Experimental Learning	participative learning	problem-solving methodologies	Any Other Methods	ICT enabled tools	Any Online Resources
C Programming Practical (TA121P)	Open Source Contributions, Code reviews, real-time application, lab manual experiments		Real-time application implementation, Project work			
JAVA Programming practical (312P)	Open Source Contributions, Code reviews, real-time application, lab manual experiments		Real-time application implementation, Project work			
Database Management Systems Practical (311P)	Open-source DBMS projects, Lab manual experiments		Real-time application implementation, Project work			

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Design & Analysis of Algorithms Practical (CSE320P)	Open Source Contributions, Code reviews, real-time application, lab manual experiments		Real-time application implementation, Project work			
Web Technologies Practical (CS429P)	Lab manual experiments		Real-time application implementation, Project work			
CRT-IV (CRT304)		Group Discussion, Debate	Critical thinking, analytical skill		SmartBoard	
Data Science Practical (CS448P)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			NPTEL, SWAYAM

Android App Development Practical	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			NPTEL, SWAYAM
Special Project 2 (CSE452)		Group Project	Real-time application implementation, Project work		MSoffice, Smart Board,Turnit in,	NPTEL, SWAYAM
Summer Internship I (SIP101)		Group Project	Real-time application implementation, Project work			NPTEL, SWAYAM

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Summer Internship II (SIP201)		Group Project	Real-time application implementation, Project work			NPTEL, SWAYAM
Summer Internship III (SIP301)		Group Project	Real-time application implementation, Project work			NPTEL, SWAYAM
Grand Viva (GV402)			Real time applications			

Qualitative Report on B.Tech (CSE), BCA/MCA Practical Courses and Learning Methodologies for AY 2021-22

Overview

This report provides a qualitative analysis of various practical courses offered in the B.Tech (CSE), BCA/MCA programs for Semester I and II, AY 2021-22. The analysis focuses on Experimental learning, participative learning, problem-solving methodologies, ICT-enabled tools, and online resources.

Object-Oriented Programming through C++ Practical (CS221P)

- **Experimental Learning**: This course emphasizes hands-on experience with programming in C++. Students have written and debugged code of object-oriented concepts through direct application.
- **Problem-Solving Methodologies**: Students solved real-world problems by applying object-oriented principles by designing classes, using inheritance, and implementing polymorphism to create efficient and reusable code.
- **Illustration**: An assignment involving simulation of a banking system where students design classes for accounts, transactions, and customers, demonstrating their grasp of object-oriented design.

Data Structures & Algorithm Practical (CS314P)

- **Experimental Learning**: This course involves practical exercises where students implemented various data structures (e.g., linked lists, trees, graphs) and algorithms (e.g., sorting, searching).
- **Problem-Solving Methodologies**: Students understood the efficiency of different data structures and algorithms, and on selecting the appropriate ones to solve specific problems.
- **Illustration**: Students developed a mini search engine that uses hash tables for quick lookups and tree structures for sorting and searching, thereby enhancing their problem-solving skills.

Data Communication and Computer Networks Practical (CS325P)

- **Experimental Learning**: This course provides hands-on experience with network configurations, protocols, and communication techniques.
- **Problem-Solving Methodologies**: Students learnt to identify and resolve network issues, optimize communication protocols, and ensure data integrity and security.
- **Illustration**: studentsrequired to set up a small network, configure routers and switches, and troubleshoot connectivity issues, simulating real-world networking challenges.

Operating System Practical (CS313P)

- **Experimental Learning**: Students got practical experience with operating system concepts such as process management, memory management, and file systems through lab exercises.
- **Problem-Solving Methodologies**: students developed and tested small components of an operating system, enhancing their understanding of complex system interactions.
- **Illustration**: An example task involves writing a simple scheduler that manages multiple processes, helping students grasp how operating systems allocate resources and manage multitasking.

Microprocessor and Microcontrollers Practical (ECE303P)

- **Experimental Learning**: This course involves programming and interfacing microprocessors and microcontrollers with various peripherals.
- **Problem-Solving Methodologies**: Students worked on projects that require them to design and implement embedded systems, solving practical problems.
- **ICT Enabled Tools**: Simulation software and development kits are used to enhance learning.

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- **Illustration**: Students designed an embedded system to control a robotic arm, using sensors and actuators, and simulate their design using specialized software before actual implementation.

Python Programming Practical (CS416P)

- **Experimental Learning**: Students perform coding in Python, working on assignments that involve data analysis, web development, and automation.
- **Problem-Solving Methodologies**: Students solve diverse problems using Python libraries and frameworks.
- **Illustration**: Students develop a web scraper to collect data from the internet and analyze it, applying problem-solving skills to extract meaningful information.

AI, Machine Learning & DL Practical (AIML401P)

- **Experimental Learning**: This course provides hands-on experience with machine learning algorithms and deep learning models. • **Problem-Solving Methodologies**: Students work on real-world datasets, developing and fine-tuning models to solve complex problems.
- **ICT Enabled Tools**: Advanced software like TensorFlow, Keras, and Jupyter Notebooks are used for model development and experimentation.
- **Illustration**: It involves building a neural network to recognize handwritten digits, with students iterating on their models to improve accuracy using ICT tools.

Special Project 1 (CSE451)

- **Participative Learning**: Students engaged in collaborative projects, often working in teams to address complex issues. • **Problem-Solving Methodologies**: students identified problems, conduct research, and develop innovative solutions. • **Any Other Methods**: Mentorship and peer reviews are integral parts of the learning process.
- **ICT Enabled Tools**: Project management tools, coding platforms, and version control systems are used to facilitate project development. • **Any Online Resources**: Online repositories, forums, and research papers are frequently consulted to support project work.
- **Illustration**: special project involves developing a software solution for real-world problem, such as an app for tracking and managing environmental sustainability efforts in a local community, using collaborative and ICT tools.

C Programming Practical (TA121P)

- **Experimental Learning**: This course emphasizes hands-on experience with C programming. Students learnt fundamental programming concepts through writing, testing, and debugging code.
- **Problem-Solving Methodologies**: Students solved programming challenges, reinforcing their understanding of loops, conditionals, arrays, and pointers.
- **Illustration**: A typical assignment involves writing a program to manage a simple library system, where students practice data structures and file handling in C.

JAVA Programming Practical (312P)

- **Experimental Learning**: Students perform practical exercises to understand object-oriented programming using Java. • **Problem-Solving Methodologies**: This course solves problems using Java's extensive libraries and frameworks. • **Illustration**: This involves creating a Java application to manage student records, utilizing classes, inheritance, and interfaces.

Database Management Systems Practical (311P)

- **Experimental Learning**: Students perform practical problems with database concepts, including SQL queries, database design, and normalization.
- **Problem-Solving Methodologies**: This course involves designing and implementing databases to solve specific business problems.
- **Illustration**: Students designed a database for an e-commerce application, including tables for products, customers, and orders, and write SQL queries to retrieve and manipulate data.

Design & Analysis of Algorithms Practical (CSE320P)

- **Experimental Learning**: This course involves implementing and analyzing algorithms to understand their efficiency and complexity. • **Problem-Solving Methodologies**: Students solve computational problems by selecting and applying appropriate algorithms.
- **Illustration**: A typical project involves implementing sorting algorithms and comparing their performance on different datasets, enhancing problem-solving skills through analysis and optimization.

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Web Technologies Practical (CS429P)

- **Experimental Learning**: Students perform hands-on experience with web development technologies, including HTML, CSS, JavaScript, and server-side scripting.
- **Problem-Solving Methodologies**: The course focuses on building responsive and dynamic web applications.
- **Illustration**: Assignment involves developing a complete website for a fictional business, requiring students to integrate front-end and back end technologies.

CRT-IV (CRT304)

- **Participative Learning**: This course involves collaborative learning through group activities and discussions. • **Problem-Solving Methodologies**: Students do problem-solving exercises, often in teams, to develop critical thinking and analytical skills. • **ICT Enabled Tools**: Various ICT tools are used to facilitate collaborative work and presentations.
- **Illustration**: A group project involves analyzing a case study on business strategy, where students present their findings and solutions using ICT tools.

Data Science Practical (CS448P)

- **Experimental Learning**: Students engaged in practical exercises to understand data science techniques, including data preprocessing, visualization, and machine learning.
- **Problem-Solving Methodologies**: The course emphasizes solving real-world problems using data-driven approaches. • **ICT Enabled Tools**:

Tools like Python, R, and Jupyter Notebc[redacted]are used extensively.

• **Illustration**: A typical project involves analyzing a large dataset to predict customer behavior, using r[redacted]ine learning algorithms and data visualization techniques.

Android App Development Practical

• **Experimental Learning**: This course provides hands-on experience in developing Android applications.

• **Problem-Solving Methodologies**: Students design and implement apps to solve specific user needs.

• **ICT Enabled Tools**: Development environments like Android Studio are used.

• **Illustration**: An example project involve developing a weather app that fetches data from an API and displays it to the user, incorporating various Android components.

Special Project 2 (CSE452)

• **Participative Learning**: Students engaged in collaborative projects, working in teams to tackle complex issues. • **Problem-Solving Methodologies**: The course requires students to identify problems, conduct research, and develop innovative solutions. • **Any Other Methods**: Mentorship and peer reviews are integral to the learning process.

• **ICT Enabled Tools**: Project management tools, coding platforms, and version control systems are used to facilitate project development. • **Any Online Resources**: Online repositories, forums, and research papers are frequently consulted to support project work.

• **Illustration**: A special project involves developing a software solution for a real-world problem, such as an app for tracking and managing environmental sustainability efforts in a local community, using collaborative and ICT tools.

Summer Internship I (SIP101)

• **Participative Learning**: Students engaged in real-world work experiences, collaborating with professionals in their field. • **Problem-Solving Methodologies**: Internships involves identifying and solving industry-specific problems. • **ICT Enabled Tools**: Various ICT tools are used to document and present internship projects.

• **Illustration**: An internship involves working on a software development team to build and deploy a new feature for an existing product. applying problem-solving skills in a professional environment.

Summer Internship II (SIP201)

• **Participative Learning**: This internship continues the hands-on, collaborative learning from SIP101.

• **Problem-Solving Methodologies**: Students tackle more complex problems and perform greater responsibilities. • **ICT Enabled Tools**: Advanced tools and platforms relevant to the industry are used.

• **Illustration**: A student works on a data analysis project, using big data tools to extract insights and present findings to their team. Summer Internship III (SIP301)

• **Participative Learning**: In this advanced internship, students take on leadership roles and manage projects. • **Problem-Solving Methodologies**: The focus is on strategic problem-solving and innovation.

• **ICT Enabled Tools**: Cutting-edge tools and technologies relevant to the internship role are used.

• **Illustration**: A project involves developing a new product prototype, requiring students to apply their technical skills and project management abilities.

Grand Viva (GV402)

• **Problem-Solving Methodologies**: This comprehensive oral examination assesses students' ability to solve problems and articulate their understanding across their field of study.

• **Illustration**: Students present and defend their final year project, demonstrating their problem-solving skills and depth of knowledge.

Conclusion

The practical courses analyzed in this report demonstrate a strong emphasis on Experimental learning and problem-solving methodologies. The integration of ICT tools and online resources further enhances the learning experience, preparing students for real-world challenges. Each course employs a unique blend of methodologies to achieve its educational objectives, providing students with a comprehensive and applied understanding of the subject matter.

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Program Name: B.Tech (CSE), BCA/MCA Sem I, AY 2022-23

Course Name & Code	Experimental Learning	participative learning	problem-solving methodologies	Any Other Methods	ICT enabled tools	Any Online Resources

Object Oriented programming through C++ Practical (CS221P)	Open Source Contributions, Code reviews, lab manual experiments		Real-time application implementation, Project work			
Data structures & Algorithm practical (CS314P)	Open Source Contributions, Code reviews, real-time application, lab manual experiments		Real-time application implementation, Project work			
Data Communication and Computer Networks Practical (CS325P)	Open Source Contributions, Configuring and troubleshootin g networks, lab manual experiments		Real-time application implementation, Project work			
Operating System practical(CS313P)	Open-source OS projects, Lab manual experiments		Real-time application implementation, Project work			
Microprocessor and Microcontrollers Practical(ECE303P)	Lab manual experiments		Real-time Simulation, Project work			

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Python Programming Practical(CS416P)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			
CRT-III (CRT 303)		Group Discussion, Debate	Critical thinking, analytical skill		Smart Board	
CRT-V (CRT 304)		Group Discussion, Debate	Critical thinking, analytical skill		Smart Board	
AI, Machine Learning & DL practical(AIML401P)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			NPTEL, SWAYAM
NODE JS, Mongo DB, Express Practical (CS411)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			NPTEL, SWAYAM

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Special Project 1(CSE451)		Group Project	Real-time application implementation, Project work		MSoffice, Smart Board,Turnitin,	NPTEL, SWAYAM

Program Name: B.Tech (CSE), BCA/MCA Sem II, AY 2022-23

Course Name & Code	Experimental Learning	participative learning	problem-solving methodologies	Any Other Methods	ICT enabled tools	Any Online Resources
Microprocessor and Microcontrollers Practical (ECE303P)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			
C Programming Practical (TA121P)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			
JAVA Programming practical (312P)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			

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Database Management Systems Practical (311P)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			
Design & Analysis of Algorithms Practical (CSE320P)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			
Web Technologies Practical (CS429P)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			
CRT-IV (CRT304)		Group Discussion, Debate	Critical thinking, analytical skill			NPTEL, SWAYAM

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Data Science Practical (CS448P)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			NPTEL, SWAYAM
Android App Development Practical	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			NPTEL, SWAYAM

Special Project 2 (CSE452)		Group Project	Real-time application implementation, Project work		MSoffice, Smart Board,Turnitin,	NPTEL, SWAYAM
Summer Internship I (SIP101)		Group Project	Real-time application implementation, Project work			NPTEL, SWAYAM
Summer Internship II (SIP201)		Group Project	Real-time application implementation, Project work			NPTEL, SWAYAM
Summer Internship III (SIP301)		Group Project	Real-time application implementation, Project work			NPTEL, SWAYAM

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Grand Viva (GV402)			Real time applications			

Qualitative Report on B.Tech (CSE), BCA/MCA Practical Courses and Learning Methodologies for AY 2022-23

Overview

This report provides a qualitative analysis of various practical courses offered in the B.Tech (CSE), BCA/MCA programs for Semester I and II, AY 2022-23. The analysis focuses on Experimental learning, participative learning, problem-solving methodologies, ICT-enabled tools, and online resources.

Semester I, AY 2022-23

Object Oriented Programming through C++ Practical (CS221P)

- **Experimental Learning**: Students write and debugg C++ programs.
- **Problem-Solving Methodologies**: Focus on applying object-oriented principles to solve programming problems.
- **Illustration**: Developed a banking system simulation to practice classes, inheritance, and polymorphism. Data Structures &

Algorithm Practical (CS314P)

- **Experimental Learning**: Practical exercises in implementing data structures and algorithms.
- **Problem-Solving Methodologies**: Solve real-world problems using efficient data structures and algorithms. • **Illustration**: Created a mini search engine using hash tables and trees.

Data Communication and Computer Networks Practical (CS325P)

- **Experimental Learning**: Configuring network setups and understanding communication protocols. • **Problem-Solving Methodologies**: Troubleshooting network issues and optimizing protocols.
- **Illustration**: Setting up a small network and resolving connectivity issues.

Operating System Practical (CS313P)

- **Experimental Learning**: Working on operating system concepts such as process and memory management. • **Problem-Solving Methodologies**: Developing components of an OS to understand system interactions. • **Illustration**: Writing a simple process scheduler to manage multiple processes.

Microprocessor and Microcontrollers Practical (ECE303P)

- **Experimental Learning**: Programming and interfacing microprocessors and microcontrollers. • **Problem-Solving Methodologies**: Designing embedded systems to solve practical problems.
- **Illustration**: Building an embedded system to control a robotic arm using sensors and actuators. Python Programming

Practical (CS416P)

- **Experimental Learning**: Coding in Python and working on diverse assignments like data analysis and web development. • **Problem-Solving Methodologies**: Solving problems using Python libraries and frameworks.
- **Illustration**: Developing a web scraper to collect and analyze data.

CRT-III (CRT 303)

- **Participative Learning**: Group activities and discussions to foster collaborative learning. • **Problem-Solving Methodologies**: Team exercises to develop critical thinking and analytical skills. • **ICT Enabled Tools**: Tools for collaborative work and presentations.
- **Illustration**: Analyzing a business case study and presenting findings using ICT tools. CRT-V (CRT 304)

- **Participative Learning**: Emphasis on higher-level problem-solving.
- **Problem-Solving Methodologies**: team exercises.
- **ICT Enabled Tools**: Enhanced tools for collaboration.

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• **Illustration**: Developing strategic solutions for complex business scenarios.

AI, Machine Learning & DL Practical (AIML401P)

• **Experimental Learning**: Hands-on with machine learning algorithms and deep learning models. • **Problem-Solving Methodologies**: Working on real-world datasets to solve problems. • **ICT Enabled Tools**: Tools like TensorFlow and Jupyter Notebooks.

• **Illustration**: Building a neural network for image recognition.

NODE JS, Mongo DB, Express Practical (CS411)

• **Experimental Learning**: Developing web applications using Node.js, MongoDB, and Express. • **Problem-Solving Methodologies**: Designing and implementing web solutions. • **ICT Enabled Tools**: Development environments and databases.

• **Illustration**: Creating a full-stack web application.

Special Project 1 (CSE451)

• **Participative Learning**: Collaborative projects with a focus on real-world problems. • **Problem-Solving Methodologies**: Identifying problems and developing innovative solutions. • **ICT Enabled Tools**: Project management tools and version control systems.

• **Any Online Resources**: Online repositories and research papers.

• **Illustration**: Developing a community-focused app for environmental sustainability. **Semester II, AY**

2022-23

Microprocessor and Microcontrollers Practical (ECE303P)

• **Experimental Learning**: Continued emphasis on programming and interfacing microcontrollers. • **Problem-Solving Methodologies**: Enhanced problem-solving in embedded systems. • **Illustration**: Advanced embedded systems projects.

C Programming Practical (TA121P)

• **Experimental Learning**: Practical experience with C programming basics. • **Problem-Solving Methodologies**: Solving foundational programming problems. • **Illustration**: Developing a simple file management system.

JAVA Programming Practical (312P)

• **Experimental Learning**: Further development of Java programming skills. • **Problem-Solving Methodologies**: Solving complex problems using Java.

• **Illustration**: Creating a Java-based application for student management.

Database Management Systems Practical (311P)

• **Experimental Learning**: Advanced database design and SQL querying.

• **Problem-Solving Methodologies**: Solving business problems through database management. • **Illustration**: Developing a comprehensive database for an e-commerce platform.

Design & Analysis of Algorithms Practical (CSE320P)

• **Experimental Learning**: Implementing and analyzing complex algorithms. • **Problem-Solving Methodologies**: Comparing algorithm efficiencies.

• **Illustration**: Implementing and analyzing different sorting algorithms. Web Technologies Practical (CS429P)

• **Participative Learning**: Collaborative web development projects.

• **Problem-Solving Methodologies**: Developing dynamic web solutions. • **ICT Enabled Tools**: Web development tools and frameworks.

• **Illustration**: Creating a collaborative web project.

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CRT-IV (CRT304)

- **Experimental Learning**: Practical exercises on real-world data science applications. • **Problem-Solving Methodologies**: Data-driven problem-solving.
- **ICT Enabled Tools**: Data science tools like Python and R.
- **Illustration**: Analyzing a large dataset for business insights.

Data Science Practical (CS448P)

- **Experimental Learning**: Hands-on with data science tools and techniques. • **Problem-Solving Methodologies**: Applying data science to solve real-world problems. • **ICT Enabled Tools**: Tools like Jupyter Notebooks and machine learning libraries. • **Illustration**: Predicting customer behavior using machine learning.

Android App Development Practical

- **Participative Learning**: Collaborative app development projects.
- **Problem-Solving Methodologies**: Designing and implementing mobile applications. • **ICT Enabled Tools**: Android Studio and related development tools. • **Any Online Resources**: Extensive use of online tutorials and resources. • **Illustration**: Developing a functional Android application for a specific use case.

Special Project 2 (CSE452)

- **Participative Learning**: Advanced collaborative projects.
- **Problem-Solving Methodologies**: Solving complex real-world problems.
- **ICT Enabled Tools**: Advanced project management and development tools.
- **Illustration**: Developing an innovative software solution for a real-world issue.

Summer Internship I (SIP101)

- **Participative Learning**: Real-world industry experience.
- **Problem-Solving Methodologies**: Solving industry-specific problems.
- **ICT Enabled Tools**: Industry-standard tools and software.
- **Illustration**: Working on a software development project in a professional setting. Summer Internship II (SIP201)

- **Participative Learning**: Continued industry experience with increased responsibility. • **Problem-Solving Methodologies**: Tackling more complex industry problems.
- **ICT Enabled Tools**: Advanced tools and software.
- **Illustration**: Leading a small project or module in an industry setting.

Summer Internship III (SIP301)

- **Participative Learning**: High-level industry experience, often in leadership roles. • **Problem-Solving Methodologies**: Strategic problem-solving and innovation.
- **ICT Enabled Tools**: Cutting-edge industry tools and technologies.
- **Illustration**: Managing a significant project or leading a team in an industry environment. Grand Viva (GV402)

- **Problem-Solving Methodologies**: Comprehensive assessment of problem-solving skills and knowledge. • **Illustration**: Presenting and defending a final year project or thesis.

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Conclusion

The practical courses in the B.Tech (CSE), BCA/MCA programs for AY 2022-23 emphasize a blend of Experimental learning, participative learning, and problem-solving methodologies. The integration of ICT tools and online resources significantly enhances the learning experience, preparing students for real-world challenges. Each course employs a unique mix of methodologies to achieve its educational objectives, providing students with a well-rounded and applied understanding of their respective fields.

Program Name: B.Tech (CSE), BCA/MCA Sem I, AY 2023-24

Course Name & Code	erimental Learning	participative learning	problem-solving methodologies	Any Other Methods	ICT enabled tools	Any Online Resources
C Programming (CSE102)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			
Object Oriented Programming Concepts (ES206)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			
CRT-I (CRT301)		Group Discussion, Debate	Critical thinking, analytical skill			SWAYAM, NPTEL
Operating Systems (CSE302)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			SWAYAM, NPTEL

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Machine Learning (CSE303)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			SWAYA M, NPTEL
CRT-III (CRT303)		Group Discussion, Debate	Critical thinking, analytical skill		Smart board	SWAYA M, NPTEL
Special project –I (CSE451)		Group Project	Real-time application implementation, Project work		MSoffice, Smart Board,Turnitin	SWAYA M, NPTEL
CRT-V (CRT304)		Group Discussion, Debate	Critical thinking, analytical skill		Smart board	SWAYA M, NPTEL
Theme Project 1		Group Project	Real-time application implementation, Project work		MSoffice, Smart Board,Turnitin	SWAYA M, NPTEL
Theme Project 3		Group Project	Real-time application implementation, Project work		MSoffice, Smart Board,Turnitin ,	SWAYA M, NPTEL

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Theme Project 5		Group Project	Real-time application implementation, Project work		MSoffice, Smart Board,Turnitin	SWAYA M, NPTEL

Program Name: B.Tech (CSE), BCA/MCA Sem II, AY 2023-24

Course Name & Code	Experimental Learning	participative learning	problem-solving methodologies	Any Other Methods	ICT enabled tools	Any Online Resources
Web enabled Technologies (Web 3.0) (CSE223)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			
Industry coding practice (Python and R) (ES225)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			SWAYA M, NPTEL
CRT –II (CRT302)		Group Discussion, Debate	Critical thinking, analytical skill		Smart board	SWAYA M, NPTEL

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Computer Networks (CSE321)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			

Cloud Computing (CSE323)	Open Source Contributions, Code reviews, real-time application, Lab manual experiments		Real-time application implementation, Project work			SWAYAM, NPTEL
CRT –IV (CRT303)		Group Discussion, Debate	Critical thinking, analytical skill		Smart board	SWAYAM, NPTEL
CRT –VI (CRT305)		Group Discussion, Debate	Critical thinking, analytical skill		Smart board	SWAYAM, NPTEL
Special Project 2 (CSE452)		Group Project	Real-time application implementation, Project work		MSoffice, Smart Board,Turnitin	SWAYAM, NPTEL
Grand Viva (GV402)			Real time applications			

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Summer Internship II (SIP201)		Group Project	Real-time application implementation, Project work			SWAYAM, NPTEL
Summer Internship III (SIP301)		Group Project	Real-time application implementation, Project work			SWAYAM, NPTEL
Theme Project 2 (ESP 111)		Group Project	Real-time application implementation, Project work		MSoffice, Smart Board,Turnitin	SWAYAM, NPTEL

Theme Project 4 (ESP 211)		Group Project	Real-time application implementation, Project work		MSoffice, Smart Board,Turnitin	SWAYAM, NPTEL
Theme Project 6 (ESP 311)		Group Project	Real-time application implementation, Project work		MSoffice, Smart Board,Turnitin	SWAYAM, NPTEL

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Qualitative Report on B.Tech (CSE), BCA/MCA Practical Courses and Learning Methodologies for AY 2023-24

Overview

This report provides a qualitative analysis of various practical courses offered in the B.Tech (CSE), BCA/MCA programs for Semester I and II, AY 2023-24. The analysis focuses on Experimental learning, participative learning, problem-solving methodologies, ICT-enabled tools, and online resources.

Semester I, AY 2023-24

C Programming (CSE102)

- **Experimental Learning**: Students write and debugg C programs.
- **Problem-Solving Methodologies**: Emphasis on solving foundational programming problems.
- **Illustration**: Developing a basic file management system to practice loops, conditionals, and file handling.

Object Oriented Programming Concepts (ES206)

- **Experimental Learning**: Practical exercises in object-oriented programming principles.
- **Problem-Solving Methodologies**: Solving problems using classes, inheritance, and polymorphism.
- **Illustration**: Creating simulation of a library management system.

CRT-I (CRT301)

- **Experimental Learning**: Hands-on activi[illegible]focused on critical thinking and analytical skills.
- **Problem-Solving Methodologies**: Team-based problem-solving exercises.
- **ICT Enabled Tools**: Tools for collaborative work and presentations.
- **Illustration**: Group project analyzing business case studies and presenting solutions.

Operating Systems (CSE302)

- **Experimental Learning**: Practical understanding of operating system concepts such as process management and memory allocation. • **Problem-Solving Methodologies**: Developing components of an operating system to understand system interactions. • **ICT Enabled Tools**: Use of simulation tools for OS concepts.
- **Illustration**: Writing a simple process scheduler.

Machine Learning (CSE303)

- **Experimental Learning**: Hands-on with machine learning algorithms and data processing.
- **Problem-Solving Methodologies**: Solving real-world problems using machine learning techniques.
- **ICT Enabled Tools**: Tools like TensorFlow and Jupyter Notebooks.
- **Illustration**: Building a predictive model for customer churn analysis.

CRT-III (CRT303)

- **Experimental Learning**: Practical exercises in advanced critical thinking and problem-solving.
- **Problem-Solving Methodologies**: Team exercises to enhance analytical skills.
- **ICT Enabled Tools**: Advanced collaborative tools.
- **Illustration**: Developing strategic solutions for complex business problems.

Special Project –I (CSE451)

- **Participative Learning**: Collaborative project work with a focus on real-world problems.
- **Problem-Solving Methodologies**: Identifying issues and developing innovative solutions.
- **ICT Enabled Tools**: Project management and version control systems.
- **Illustration**: Developing a community-focused app for environmental sustainability.

CRT-V (CRT304)

- **Experimental Learning**: Activities focused on applying critical thinking to solve problems. • **Problem-Solving Methodologies**: Advanced problem-solving exercises.
- **ICT Enabled Tools**: Enhanced collaborative tools.
- **Illustration**: Analyzing complex business scenarios and presenting solutions. Theme Projects 1,

3, 5

- **Participative Learning**: Collaborative projects tackling thematic issues.
- **Problem-Solving Methodologies**: Identifying and addressing thematic problems. • **ICT Enabled Tools**: Tools for project management and collaborative work. • **Illustration**: Projects focusing on themes such as sustainability, technology for social good, etc.

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Web Enabled Technologies (Web 3.0) (CSE223)

- **Experimental Learning**: Practical experience in developing Web 3.0 applications. • **Problem-Solving Methodologies**: Solving problems related to modern web technologies. • **Illustration**: Developing a decentralized web application using blockchain.

Industry Coding Practice (Python and R) (ES225)

- **Experimental Learning**: Hands-on coding exercises in Python and R.
- **Problem-Solving Methodologies**: Solving industry-relevant coding problems. • **ICT Enabled Tools**: Coding platforms and data analysis tools.
- **Illustration**: Data analysis project using R and Python for data visualization. CRT-II (CRT302)

- **Experimental Learning**: Critical thinking and problem-solving activities. • **Problem-Solving Methodologies**: Team-based analytical exercises.

- **ICT Enabled Tools**: Tools for collaborative learning.
- **Illustration**: Group projects focusing on industry case studies.

Computer Networks (CSE321)

- **Experimental Learning**: Configuring and managing network setups.
- **Problem-Solving Methodologies**: Troubleshooting network issues and optimizing protocols. • **Illustration**: Setting up a small network and resolving connectivity issues.

Cloud Computing (CSE323)

- **Experimental Learning**: Hands-on with cloud computing platforms and services. • **Problem-Solving Methodologies**: Solving cloud architecture and deployment issues. • **ICT Enabled Tools**: Cloud platforms like AWS, Azure, etc.
- **Illustration**: Deploying a scalable web application on a cloud platform.

CRT-IV (CRT303)

- **Experimental Learning**: Advanced problem-solving and critical thinking activities. • **Problem-Solving Methodologies**: Team-based exercises.
- **ICT Enabled Tools**: Enhanced tools for collaboration.
- **Illustration**: Strategic analysis of business problems and presenting solutions. CRT-VI (CRT305)

- **Experimental Learning**: Focused on higher-level critical thinking and problem-solving. • **Problem-Solving Methodologies**: Advanced exercises.
- **ICT Enabled Tools**: Advanced collaborative tools.
- **Illustration**: Developing solutions for complex industry problems.

Special Project 2 (CSE452)

- **Participative Learning**: Advanced collaborative project work.
- **Problem-Solving Methodologies**: Solving complex real-world problems.
- **ICT Enabled Tools**: Project management and development tools.
- **Illustration**: Developing innovative software solutions for real-world issues.

Grand Viva (GV402)

- **Problem-Solving Methodologies**: Comprehensive assessment of problem-solving skills and knowledge.
- **Illustration**: Presenting and defending final year projects or thesis.

Summer Internship II (SIP201)

- **Participative Learning**: Real-world industry experience.
- **Problem-Solving Methodologies**: Solving industry-specific problems.
- **ICT Enabled Tools**: Industry-standard tools and software.
- **Illustration**: Working on a software development project in a professional setting.

Summer Internship III (SIP301)

- **Participative Learning**: Advanced industry experience with increased responsibility.
- **Problem-Solving Methodologies**: Tackling more complex industry problems.
- **ICT Enabled Tools**: Advanced tools and software.
- **Illustration**: Leading a small project or module in an industry setting.

Theme Projects 2, 4, 6

- **Participative Learning**: Collaborative projects focusing on thematic issues.
- **Problem-Solving Methodologies**: Identifying and addressing thematic problems.
- **ICT Enabled Tools**: Tools for project management and collaboration.
- **Illustration**: Projects addressing themes such as technology innovation, social impact, and sustainability.

Conclusion

The practical courses in the B.Tech (CSE), BCA/MCA programs for AY 2023-24 emphasize a blend of Experimental learning, participative learning, and problem-solving methodologies. The integration of ICT tools and online resources significantly enhances the learning experience, preparing students for real-world challenges. Each course employs a unique mix of methodologies to achieve its educational objectives, providing students with a well-rounded and applied understanding of their respective fields.

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Qualitative Report on Student-Centric Methods of Post Graduate Students of Department of Chemistry ICFAI University

Introduction

This qualitative report examines the implementation and impact of student-centric methodologies, specifically experimental, participative, and problem-solving learning, within postgraduate master degree programs. The study aims to understand the perspectives of students, faculty, and administrators regarding the effectiveness of these approaches in fostering critical thinking, problem-solving, and practical skills.

Research Methodology

A qualitative research design was employed to explore the complexities of student-centric learning. Data was collected through semi-structured interviews with postgraduate students, faculty members, and program administrators. Additionally, focus group discussions were conducted with students to delve deeper into their collective experiences. Thematic analysis was used to identify recurring patterns and themes within the data.

Experimental Learning

Enhanced Practical Skills: Students reported a significant improvement in practical skills through hands-on experiences, internships, and laboratory work. They valued the opportunity to apply theoretical knowledge to real-world scenarios.

Increased Engagement: Experimental learning fostered active engagement and curiosity among students. They were more motivated to learn when they could see the practical implications of their studies.

Faculty Challenges: Faculty members expressed the need for adequate resources and infrastructure to support experimental learning activities. They also emphasized the importance of balancing theoretical knowledge with practical experience.

Participative Learning

Improved Communication and Collaboration: Students highlighted the development of strong communication and collaboration skills through group work, discussions, and presentations. They appreciated the opportunity to learn from their peers.

Deeper Understanding of Concepts: Participative learning facilitated a deeper understanding of complex concepts. Students actively constructed knowledge through interaction with faculty and peers.

Time Management Challenges: Some students reported difficulties in balancing group work with individual responsibilities. Faculty members emphasized the need for effective time management and organization skills.

Problem-Solving Learning

Enhanced Critical Thinking: Students developed strong critical thinking abilities through problem-solving activities and case studies. They learned to analyze complex issues, identify solutions, and justify their decisions. Problem-solving experiences boosted students' confidence in tackling real-world challenges. They felt better prepared for professional roles requiring problem-solving skills.

Faculty Role: Faculty members highlighted the importance of creating a supportive learning environment that encourages risk-taking and experimentation. They emphasized the need for providing clear guidance and feedback. The findings suggest that experimental, participative, and problem-solving learning methods are effective in enhancing student learning outcomes. These approaches promote active engagement, critical thinking, and practical skills development. However, successful implementation requires adequate resources, faculty support, and a supportive learning environment.

Conclusion

This qualitative study provides valuable insights into the implementation and impact of student-centric methods in postgraduate master degree programs. By adopting these approaches, institutions can create more engaging, effective, and relevant learning experiences for students.

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Qualitative Report on Student-Centric Methods of Under Graduate Students of Department of Chemistry ICFAI University

Introduction

The landscape of higher education is increasingly embracing student-centric methodologies to enhance student engagement and learning outcomes. In undergraduate chemistry courses, three prominent approaches—experiential learning, participative learning, and problem-solving methodologies—are proving particularly effective. This report explores the implementation and impact of these methods based on qualitative feedback from students and educators.

Experiential Learning

Experiential learning in chemistry involves students engaging directly with the material through hands-on experiments, field trips, and research projects. This approach allows students to observe chemical reactions, develop technical skills, and apply theoretical knowledge in real-world contexts. By participating in practical activities and exploring chemical concepts firsthand, students retain information more effectively and enhance their critical thinking and problem-solving abilities. Experiential learning makes chemistry more engaging and relevant, preparing students for future scientific endeavors by bridging the gap between theory and practice.

Participative learning

Participative learning in chemistry involves students actively collaborating and engaging with peers through group projects, peer teaching, and class discussions. This method encourages teamwork, communication, and diverse perspectives, enhancing understanding and retention of chemical concepts. By working together on experiments and investigations, students learn to share responsibilities and solve problems collectively. Teaching peers helps solidify their knowledge, while class discussions foster critical thinking. Participative learning creates a dynamic and inclusive classroom environment, making chemistry more interactive and motivating for students, ultimately preparing them for collaborative scientific work in their future careers.

Problem Solving Methodologies:

Problem-solving methodologies focus on developing students' abilities to tackle complex and unfamiliar problems using logical, analytical, and creative approaches. In chemistry, this method is particularly valuable, given the subject's inherent challenges. Analyzing real-world chemical problems through case studies enhances students' ability to apply theoretical knowledge to practical scenarios. This method promotes critical thinking and problem-solving skills. Encouraging students to pose questions, design experiments, and draw conclusions mirrors the scientific method and fosters independent thinking. Using computer simulations to model chemical processes helps students visualize complex phenomena and experiment with variables in a controlled environment. This method allows for a deeper understanding of abstract concepts. Regular exposure to problem-solving scenarios improves students' analytical skills. They learn to approach problems systematically and develop logical solutions. Students gain confidence in applying their theoretical knowledge to practical problems. This confidence is crucial for their future professional and academic pursuits. Tackling challenging problems keeps students engaged and stimulates their intellectual curiosity. They are more likely to delve deeper into topics and explore further learning opportunities.

Conclusion: Integrating experiential learning, participative learning, and problem-solving methodologies in undergraduate chemistry courses significantly enhances student engagement, understanding, and skill development. These approaches prepare students for dynamic scientific careers by providing practical experience, fostering collaboration, and developing critical problem-solving abilities. Continuous assessment, faculty training, and adequate resource allocation are essential to sustain and enhance these methodologies, ensuring a more engaging and effective learning environment.

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Course Name & Course Code	Experiential Learning	Participative Learning	Problem Solving Methodolies	Anyother Methods	ICT enabled Tools	Any Other Online Resources	Link
Quantum chemistry and molecular spectroscopy CHE301	Using computational chemistry software to simulate quantum chemical systems and observe molecular behaviors	[illegible]itating discussions on complex concepts, where students explain theories and solve problems together.	Presenting students with a complex problem that they need to solve, requiring them to apply quantum chemistry principles.	Power po[illegible]resentation	Smart Board	PDF	https://docs.google.com/spreadsheet
Physical chemistry practical CHE615P	Students conduct hands-on experiments to explore concepts like thermodynamics, kinetics, and electrochemistry.	Students work in teams to conduct experiments and solve problems.	Students are presented with a problem and must design and conduct experiments to solve it.	Power point Presentation	Smart Board	PDF	
Physical Chemistry - III CHE614T	Conduct experiments to measure properties like viscosity, osmotic pressure, and phase transitions in polymer solutions or protein folding/unfolding.	Facilitate discussions on complex topics like the statistical mechanics of polymers, protein thermodynamics, and phase behavior of macromolecular	Present students with complex problems requiring the application of statistical thermodynamics to macromolecular systems, such as predicting the behavior of	Power point Presentation	Smart Board	PDF	
PHYSICAL CHEMISTRY – II, CHE513T	Conducting experiments such as electroplating, galvanic cells, and measuring reaction rates to study electrochemical processes and non-equilibrium systems.	Facilitating discussions on topics like electrode potentials, electrochemical series, and entropy production in non-equilibrium systems.	Analyzing real-world scenarios where principles of electrochemistry and non-equilibrium thermodynamics are applied, such as in corrosion prevention, battery technology, or environmental engineering.	Power point Presentation	Smart Board	PDF	
QUANTUM CHEMISTRY CHE524T	Using computational chemistry software to simulate quantum chemical systems and observe molecular behaviors	Facilitating discussions on complex concepts, where students explain theories and solve problems together.	Presenting students with a complex problem that they need to solve, requiring them to apply quantum chemistry principles.	NA	Smart Board	PDF	
CHEMISTRY LAB IV (INORGANIC, PHYSICAL, ORGANIC), CHE224P	Students conduct hands-on experiments to explore concepts like thermodynamics, kinetics, and electrochemistry.	Students work in teams to conduct experiments and solve problems.	Students are presented with a problem and must design and conduct experiments to solve it.	NA	Smart Board	PDF	
APPLICATIONS OF COMPUTER IN CHEMISTRY, CHE307	Engaging students in projects where they analyze real experimental data using statistical and computational tools, such as MATLAB or Python.	Assigning group projects where students collaboratively work on computational chemistry problems	Presenting students with complex problems that require the application of computational chemistry tools to solve, such as optimizing a chemical process or predicting the behavior of a new	NA	Smart Board	PDF	
ORGANIC CHEMISTRY II CHE521T	The students are engaged in understanding the basic principles of the topics included in Organic Chemistry, learn the principles and their application	The students are arranged in groups and allowed to work on a single alloted topic after the completion of a certain module	On the very topic problems are given and the students take it as an assignment to submit on a due time.	The students also present the topics through group presentations.	Smart Board	PDF	
ANALYTICAL CLINICAL BIOCHEMISTRY CHE312	The students learn about basics of biochemistry including protein, carbohydrates, enzymes and nucleic acids. It also includes Green chemistry, replacing conventional methods over green ones, genetic materials etc.	Facilitate discussions on important topics of carbohydrate chemistry, green chemistry, various genetic processes and their elaboration.	On the very topic numericals based problems are given and the students take it as an assignment to submit on a due time.	The students also present the topics through group presentations.	Smart Board	PDF	
FOOD AND NUTRITION CHE128	Students learn about the important concepts of different types of food and their nutritional requirements. Also perform hands on experiments of the composition of foods	Students work in groups to perform experiments with specific kinds of food materials, try to find the chemical composition or aldulteration in the foods.	Certain peoblems on the topic are assigned for completion in stipulated time.	NA	Smart Board	PDF	

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CHEMISTRY CHEM121	Students get an exposure to the different concepts of chemistry that includes gaseous states, chemical thermodynamics, electrochemistry and their related applications in various spheres.	Students work together in performing basic experimental studies of the cirriculum and solving related experiments	Students are usually given a problem and they develop methods to solve the numericals as well as while designing experimental procedures.	NA	Smart Board	PDF
CHEMISTRY LAB VI CHE308P	Hands-on experimentation of knowing different procedures which includes photochemistry, calorimetry, potentiometry	Students work in groups to conduct experiments and solve related problems.	Students are presented with a problem and must design and conduct experiments to solve it.	NA	Smart Board	PDF
ORGANIC CHEMISTRY I CHE512T	The students are engaged in understanding the basic principles of the topics included in Organic Chemistry, learn the principles and their application	The students are arranged in groups and allowed to work on a single alloted topic after the completion of a certain module	On the very topic problems are given and the students take it as an assignment to submit on a due time.	The students also present the topics through group presentations.	Smart Board	PDF
HETEROCYCLIC CHEMISTRY CHE212T	The students are engaged in understanding the basic principles of nitroden containing compounds, learn the principles and their application, idea of alkaloids, terpenoids, heterocycles and many more	Faciliate discussions among the students on the certain topic discussed and they elaborate the applications often.	The students solve problem on synthesis, road maps, practice problems etc.	Power point Presentations are initiated among the students to enhance their presentation and deliberation skills	Smart Board	PDF
ORGANIC CHEMISTRY III CHE613T	The students will learn about reagents in chemistry, their applications, heterocycles, synthetic methodolofies for designing definite molecules.	On a certain reagent or synthetic procedure group discussions are often facilitiated for better understanding of the reagents and their diverse applications.	Many practice problems are encouraged and students perform it as a part of their assignment.	Power point Presentations are initiated among the students in groups to enhance their presentation and deliberation skills	Smart Board	PDF
INTRODUCTION TO ORGANIC CHEMISTRY, CHE103	Hands -on experimentation of knowing the organic compounds primarily, their physical and chemical characteristics.	Students work in groups to conduct experiments and solve related problems.	Students are presented with a problem and must design and conduct experiments to solve it.	NA	Smart Board	PDF
Physical Chemistry I CH513T	Demonstration in class about practical aspects	Students participate in group discussions and presentations	Quiz, assignments are provided regularly to nurture inquisitive minds in class	Presentation topics are given. Students prepare ppt and reports and deliver presentations in class	Smart Board	Pdf
Molecular Spectroscopy CHE526T	Through virtual labs demonstration, students gain in sight knowledge of experimentation	Students participate in group discussions and presentations	Quiz, assignments are provided regularly to nurture inquisitive minds in class	Presentation topics are given. Students prepare ppt and reports and deliver presentations in class	Smart Board	pdf, https://www.vlab.co.in/broad-area-chemical-sciences
Introduction to Physical Chemistry II CHE130	Experiments in laboratory on experimental thermodynamics involving enthalpy changes	Students work in groups for conducting experiments and analyzing data	Experimental topics are given and the students perform hands-on experiments. In theory classes numerical problems are given as regular exercise. The students work individually or in groups to	Presentation topics are given. Students prepare ppt and reports and deliver presentations in class	Smart Board	Pdf
Physical Chemistry IV (Conductance and Chemical Kinetics) CHE223T	Demonstration in class about practical aspects	Students participate in group discussions and presentations	Quiz, assignments are provided regularly to nurture inquisitive minds in class	Presentation topics are given. Students prepare ppt and reports and deliver presentations in class	Smart Board	Pdf
INTRODUCTION TO ORGANIC CHEMISTRY, CHE103	Hands -on experimentation of knowing the organic compounds primarily, their physical and chemical characteristics.	Students work in groups to conduct experiments and solve related problems.	Students are presented with a problem and must design and conduct experiments to solve it.	NA	Smart Board	https://iutripura.gnomio.com/course/view.php?id=899
General biochemistry I	Hands -on experimentation of knowing Qualitative tests for biomolecules , Separation of amino acids and sugars/bases	Students work in groups to conduct experiments and solve related problems.	Students are presented with a problem and must design and conduct experiments to solve it.	NA	Smart Board	https://iutripura.gnomio.com/course/view.php?id=655

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Physical & Analytical Biochemistry, MMLT501	Student acquire basic knowledge of laboratory instrumentation and biochemistry, understands the working principles of the instruments and will be eligible to independently handle them. Understands acid-base, and buffer solution and its impact on physiological process. Understands the structural features and function of different bio-molecules.	Students presented on different topics discussed the topics	the students take topics as an assignment to submit on a due time.	NA	Smart Board	PDF
ORGANIC CHEMISTRY II (Oxygen containing functional group). CHE121T	The students learned the preparation of alcohol, phenols, and other oxygen containing functional group and their physical and chemical properties	Students presented on different topics and discussed the preparation. properties of compounds having oxygen atom in the functional group	Reaction Mechanisms were discussed and practiced by students	Power point Presentation	Smart Board	https://iutripura.gnomio.com/course/view.php?id=882
Fuel Chemistry and Batteries, CHE317	The students learned the fundamental concepts of renewable and non-renewable fuels, coal, and the process of carbonization, coal liquifaction, the products. its applications and potential benefits., the petroleum, lubricants, and batteries	Students presented on different topics and discussed theprocesses involved in connection to coal, petroleum, lubricants, batteries	On coal topic numericals based problems are given and the students take it as an assignment to submit on a due time.	Power point Presentation	Smart Board	https://iutripura.gnomio.com/course/view.php?id=440
Organic Chemistry Practical, CHE525P	Hands -on experimentation of knowing the separation, purification and identification of compounds, learnt about chromatography, learn about organic synthesis, learnt about extraction of organic compounds from natural sources, learnt about estimations of Ascorbic acid, Aspirin, Caffeine.	Students work in groups to conduct experiments and solve related problems.	Students are presented with a problem and must design and conduct experiments to solve it.	NA	Lab	PDF
Chemistry in daily life CHE107	Students learnt about the chemicals used in everyday life and Cosmetics, Cleaning action of Soaps and Detergents, learned about Plastics, Polythene, Fertilizes. Gobar gas, learnt about common Medicines and Sweetening agents	Students presented on different topics and discussed theprocesses involved in connection to soap, cosmetics, medicines, fertilizers, polymers and carbohydrate	the students take topics as an assignment to submit on a due time.	Power point Presentation	Smart Board	https://iutripura.gnomio.com/course/view.php?id=385
Environmental Science, ENV122	Students learnt and understood the environment and learnt about the cause of pollutions and necessary methods to stop or minimize them. Students understood the laws and regulations regarding environmental	Students did field study and presented on their topics of field study	Students discussed with different problem during their Field Survey and came out with suggestion to solve it.	Power point Presentation	Smart Board	https://iutripura.gnomio.com/course/view.php?id=533
Inorganic chemistry III (Coordination Chemistry) CHE211T	Students will comprehend the basics of coordination chemistry	Students participate in the group discussions and presentations	Students are engaged with critical problems, which needs to be solved to understand the subject in advanced level	NA	No	PDF
Advanced Polymer Chemistry (CHE505)	Students will know polymeric materials, different polymerization, their properties, also the polymeric membranes, their working principles.	Group discussions and presentations were delivered to make the subject more interesting to them	Complex problems were discussed in the class	Students were given particular topic, they prepared ppt and presented the topic through group presentation	No	PDF
Inorganic chemistry Practical (CHE515)	Hands -on experiments on metal-ligand complexation and their characterization with UV-Vis and FTIR	Students work in groups to conduct experiments and solve related problems.	Students are presented with a problem and must design and conduct experiments to solve it.	NA	No	PDF
General chemistry III (CHE215T)	Students will learn the basic principle of organic and physical chemistry	Group discussions were done	Topic related problems were solved for them	Students presented the topic through group presentation	Smart Board	PDF

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Inorganic chemistry II (CHE522T)	Students will learn the magnetic properties, spectral baheviour of the transitionelements and lanthanides. Also they will know about some basic topics of bioinorganic chemistry.	Students discussed various problems related to this topic, related to magnetism and spectral properties.	Some complex and critical problems were discussed and solved in the class to improve their knowledge in the subject	Students presented the topic through group presentation	No	PDF
Polymer Chemistry (CHE309)	Students will know basics of polymeric materials, bonding, their properties, also the preparation, properties & applications of individual polymers.	Group discussions and presentations were delivered to make the subject more interesting to them	Complex problems were discussed in the class	Students prepared their ppt on a particular topic and delivered their presentation in the class	Smart Board	PDF
General chemistry IV (CHE225T)	Students will have knowledge about the basics of metallurgy and purification methods of various metals	Group discussions were done	Topic related problems were solved for them	Students prepared their ppt on a particular topic and delivered their presentation in the class	Smart Board	PDF
FOOD AND NUTRITION CHE128	Students learn about the important concepts of different types of food and their nutritional requirements. Also perform hands on experiments of the composition of foods	Students work in groups to perform experiments with specific kinds of food materials, try to find the chemical composition or aldulteration in the foods.	Certain problems on the topic are assigned for completion in stipulated time.	Students prepared their ppt on a particular topic and delivered their presentation in the class	Smart Board	PDF
Chemistry Lab IV (CHE224P)	Hands -on experimentation on the group analysis of inorganic salts	Students work in groups to conduct experiments and solve related problems	Students are presented with a problem and must design and conduct experiments to solve it.	NA	No	PDF
INORGANIC CHEMISTRY IV (CHE221T)	Students can impart essential theoretical knowledge on the basic principles of qualitative analysis of cations and anions. organometallic compounds and bioinorganic chemistry.	Group discussions and presentations were delivered to make the subject more interesting to them	Certain problems on the topic are assigned for completion in stipulated time.	Power point Presentations are initiated among the students to enhance their presentation and deliberation skills	ICT software for chemical drawing, such as ChemDraw was used	PDF
ADVANCED COORDINATION CHEMISTRY AND X-RAY CRYSTALLOGRAPHY (CHE529)	Students will learn essential theoretical knowledge on the structure, properties, and crystal structure of Coordination compounds. Students will also understand the geometry of the crystalline state and the basics of X-ray Diffraction.	Encourage collaborative learning through group discussions and presentations to facilitate peer-to-peer knowledge exchange.	Some sessions involved collaborative problem-solving exercises aimed at addressing various challenges.	Students were introduced to exciting crystal-solving software such as WinGX and OLEX	Smart Board	Grant students access to a vast array of online textbooks and journals to enhance their research and learning endeavors.
TECHNICAL REPORT WRITING (CHE527T)	Students can write a comprehensive technical report and gain exposure to various software used for cutting-edge research in the modern scientific world	Encourage peer-to-peer knowledge exchange by fostering collaborative learning through group discussions and presentations.	Engaged students in collaborative problem-solving sessions that included using Origin Software for various data plotting exercises.	PowerPoint presentations are used to improve students' presentation and discussion skills.	ICT software for chemical drawing, such as ChemDraw was used	Provided students with access to a wide range of online textbooks and journals to support their learning efforts.
Chemistry (CHEM121)	To equip students with the knowledge and skills to understand the applications of chemistry in various environments and industrial production processes.	Students collaborate in teams to converse about and demonstrate relatively challenging subjects. They engage in group conversations to enhance their comprehension of the topic.	During the sessions, we engaged in collaborative problem-solving activities that were designed to help us tackle a wide range of challenges.	PowerPoint presentations serve as a valuable tool for enhancing students' presentation and discussion skills.	Smart Board	PDF
Physical Chemistry I (CHE104)	Students are involved in various experiments such as Titrimetric Analysis, surface tension measurements, and viscosity measurement, along with theoretical discussions.	Promote group conversations and deliver talks on important subjects to improve teamwork and shared learning.	Some sessions involved collaborative problem-solving exercises aimed at addressing various challenges.	PowerPoint presentations are used to improve students' presentation and discussion skills.	Smart Board	PDF

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Advanced Bioinorganic Chemistry (CHE315)	Students are involved in understanding the basic principles of bioinorganic Chemistry and emphasizes specialized metal-binding molecules, iron-containing proteins as oxygen and electron carriers, copper enzymes, nitrogenase, and metals in medicine.	Students collaborate in teams to conv[illegible] about and demonstrate relatively challenging subjects. They engage in group conversations to enhance their comprehension of the topic.	During the sessions, we engaged in collaborative problem-solving activities that were designed to help us tackle a wide range of challenges.	PowerPoint presentations serve as a [illegible]ble tool for enhanc[illegible] students' presentation and discussion skills.	ICT software for chemical drawing, such as ChemDraw was used	PDF
Inorganic Chemistry-III (CHE612T)	Students will learn about different types of Organometallic Compounds, Symmetry Group Theory applications, Nuclear and Radiochemistry, and basics of Inorganic Supramolecular Chemistry.	Promote group conversations and deliver talks on important subjects to improve teamwork and shared learning.	Some sessions involved collaborative problem-solving exercises aimed at addressing various challenges.	PowerPoint presentations are used to improve students' presentation and discussion skills.	Smart Board	Given students the opportunity to explore a diverse collection of online textbooks and journals to enrich their learning experience.
Chemistry of advanced material (CHE621T)	Students are engaged in virtual simulations such as studying the synthesis and properties of nanomaterials through digital resources. They also analyze real-world applications of nanomaterials, such as solar cells and environmental nanotechnology.	Students work in groups to discuss and present on topics like photosensitizers in photodynamic therapy and the chemistry of liquid crystals. They participate in group discussions to deepen their understanding of the subject matter.	Complex problems related to the synthesis and application of nanomaterials, liquid crystals, and drug design are presented to the students. They are required to develop solutions using the principles learned in the course.	Students are encouraged to apply the concepts of molecular recognition and self-assembly to new applications, fostering creativity and innovation. They also work on internal assignments and presentations to develop their soft skills.	The use of online resources, including research databases is integrated into the teaching process to enhance learning.	Access to online textbooks and journals is recommended to support the students' research and learning.
General Chemistry (CHE514T)	Engage students in virtual simulations focusing on molecular symmetry and bonding through digital platforms.	Facilitate group discussions and presentations on topics such as stereochemistry, green chemistry, and biochemistry to enhance collaborative learning.	Present complex problems related to molecular symmetry, stereochemistry, and spectroscopy, encouraging students to apply theoretical knowledge to develop solutions.	Encourage students to apply nanochemistry concepts to new applications, promoting creativity and innovation. Internal assignments and [illegible]	Utilize online resources, including research databases to integrate technology into the teaching process and enhance learning outcomes.	Provide access to online textbooks and journals to support students' research and learning activities.
Analytical methods in chemistry (CHE304)	Students engage in virtual experiments and simulations to understand error analysis, statistical methods, and various spectroscopic techniques.	Collaborative learning is encouraged through group discussions and presentations on key topics such as thermogravimetry, electroanalytical methods, and chromatography. Students work [illegible]	Problem-solving sessions are conducted, focusing on real-world analytical challenges.	Assignments that involve interactive elements such as quizzes, and data analysis to engage students actively.	Integration of ICT tools such as online databases and research journals, to enhance learning and research capabilities.	Providing students with access to online textbooks and scholarly articles to support their learning and research.
INSTRUMENTAL METHODS OF CHEMICAL ANALYSIS (CHE308)	Students are engaged in virtual experiments to explore light-matter interactions, spectroscopic techniques, and data analysis. These interactive experiences help students understand complex concepts.	Collaborative learning is encouraged through group discussions and presentations on key topics such as molecular spectroscopy, chromatographic methods, and mass spectrometry. Students work [illegible]	Problem-solving sessions are conducted, focusing on real-world analytical challenges.	Students are engaged in literature reviews to explore recent advancements in instrumental methods of chemical analysis, promoting independent [illegible]	The use of ICT tools such as online databases and research journals are integrated into the teaching process to enhance learning and [illegible]	Access to online textbooks and scholarly articles is provided to support students' learning and research activities.

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Organic Spectroscopy (CHE222T)	Engage students to explore spectroscopic techniques and data analysis, providing a hands-on learning experience.	Fost[illegible]ollaborative learning throug[illegible]roup discussions and presentations on the synthesis and classification of dyes, carbohydrates, and polymers, encouraging peer-to-peer knowledge exchange.	Conduct sessions focused on solving real-world analytical problems, where students apply theoretical knowledge to practical scenarios, enhancing their critical thinking skills.	Encourage independent learning b[illegible]ssigning literature[illegible]ews on recent advancements in organic spectroscopy, promoting critical analysis and synthesis of information.	Utilize digital tools such as online databases, research journals, and spectroscopy databases to support learning and facilitate advanced data analysis.	Provide students with access to a range of online textbooks, and scholarly articles, to support their studies and research efforts.
Progress in Bioinorganic Chemistry (CHE504)	Students engage in virtual lab simulations to study the interactions of metal ions with biological molecules through digital sources	Collaborative learning through group discussions and presentations on topics such as metalloenzymes, coordination chemistry, and metal-containing pharmaceuticals.	Students apply theoretical knowledge to practical challenges, enhancing their critical thinking and analytical skills.	Encourage independent learning by assigning literature reviews on recent advancements in bioinorganic chemistry. This	Utilize digital tools such as online databases, and research journals	Provide access to a range of online textbooks, and scholarly articles.
Chemistry in Medicine(CHE661T)	Essential theoretical information about the composition, characteristics, and therapeutic uses of many medications will be taught to the students. Additionally, students will comprehend various synthetic approaches to various medications."	The students are divided into groups and given the opportunity to work on a single assigned subject after the conclusion of a particular module.	Students develop their analytical and critical thinking abilities by applying academic information to real-world problems.	Topics for presentations are provided. In class, students create powerpoints, write reports, and give presentations.	Students are encouraged to make presentations in order to improve their deliberation and presenting abilities through power point	Assist students in their studies and research endeavors by providing them with an array of online textbooks and academic
Organometallic Chemistry (CHE651T)	The composition, bonding, and reactivity of transition metal organometallic complexes include d pi-bonded metal-alkenes-alkynes, -carbocyclic, and sigma-bonded metal-organyls. Students will also be conversant with some basic ideas in the catalytic uses of organometallic compounds.	After the completion of a certain module, the students are split up into groups and given the chance to concentrate on a single allocated topic.	Certain problems on the topic are assigned for completion in stipulated time.	Topics for presentations are provided. In class, students create powerpoints, write reports, and give presentations.	In order to strengthen their argumentative and presentation skills, students are encouraged to give power point presentations.	In order to assist students with their study and research, access to academic publications and online textbooks is offered.
Inorganic Chemistry I (CHE511T)	The symmetry elements, point groups, bonding, and non-transition element chemistry will all be taught to the students. Additionally, students will be familiar with certain fundamental concepts in inorganic reaction mechanisms and bioinorganic chemistry.	Students discussed various problems related to this topic symmetry point group and bioinorganic and reaction mechanism.	Some complex and critical problems were discussed and solved in the class to improve their knowledge in the subject	Students presented the topic through group presentation	Smart Board	PDF
Inorganic Chemistry Practical (CHE515P)	Hands -on experimentation for the preparation of inorganic complex compound and their characterization by UV-Vis and FTIR techniques.	Students work in groups to conduct experiments and solve related problems.	Students are presented with a problem and must design and conduct experiments to solve it.	Students presented the topic through group presentation	Lab	PDF
Introduction to Inorganic Chemistry I (CHE129)	Understand the laboratory experiments by practical demonstration of volumetric analysis and inorganic metal ion titration and estimation	Students undertake experiments and work through relevant difficulties in groups.	Students are presented with a problem and must design and conduct experiments to solve it.	Students presented the topic through group presentation	Smart Board	https://iutripura.gnomio.com/course/view.php?id=415
General Biochemistry II (CHE127)	The fundamental ideas behind the many kinds of proteins and their structures are taught to the students. Additionally, carry out practical tests on identifying amino acids and estimating proteins.	Students conduct experiments with certain protein compounds in groups and attempt to quantify the amount of proteins and amino acids.	Certain problems on the topic are assigned for completion in stipulated time.	Students prepared their ppt on a particular topic and delivered their presentation in the class	Smart Board	PDF

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Introduction to General Chemistry I (CHE106)	Essential theoretical information on the atomic structure, chemical bonding, kinetic theory of gases, and other topics will be taught to students. Additionally, students will comprehend how various organic compounds work in stereochemistry.	In order to increase their interest in the topic, group discussions and presentations were given.	A few of the topic's challenges are given to complete within a certain amount of time.	Students prepared their ppt on a particular topic and delivered their presentation in the class	Smart Board	PDF
Chemistry (CHEM121)	Students are exposed to a variety of chemistry principles, such as electrochemistry, chemical thermodynamics, gaseous states, and their relevant applications in a range of fields.	Students collaborate to complete linked experiments and fundamental experimental research of the curriculum.	Typically, students are given an issue to address, and they come up with strategies for both devising experimental protocols and solving the numerical problems.	NA	Smart Board	PDF
Environmental Studies (ENV223)	The environment was taught to students, along with the causes of pollution and the steps that must be taken to reduce or eliminate it. Pupils were aware of the rules and legislation pertaining to environmental policy.	Through field study, students are able to directly experience environmental studies and learn about their importance and consequences."	During their field survey, students explored various problems and came up with solutions.	NA	Smart Board	PDF
Chemistry Lab VI (CHE308P)	Hands -on experimentation for the preparation of complex compound and their characterization by UV-Vis and FTIR techniques.	Students work in groups to conduct experiments and solve related problems.	Students are presented with a problem and must design and conduct experiments to solve it.	NA	Lab	PDF
Reagents in organic Synthesis (CHE321)	The students are engaged in understanding the basic principles of the topics included in Organic Chemistry, learn the principles and their application	The students are arranged in groups and allowed to work on a single alloted topic after the completion of a certain module	On the very topic problems are given and the students take it as an assignment to submit on a due time.	The students also present the topics through group presentations.	Smart Board	PDF
Advance synthetic organic Chemistry (CHE516	The students are engaged in understanding the basic principles of the topics included in Organic Chemistry, learn the principles and their application	The students are arranged in groups and allowed to work on a single alloted topic after the completion of a certain module	On the very topic problems are given and the students take it as an assignment to submit on a due time	The students also present the topics through group presentations.	Smart Board	PDF
Introduction to General Chemistry II (CHE131)	The students are engaged in understanding the basic principles of the topics included in Organic Chemistry, learn the principles and their application	The students are arranged in groups and allowed to work on a single alloted topic after the completion of a certain module	On the very topic problems are given and the students take it as an assignment to submit on a due time.	The students also present the topics through group presentations.	Smart Board	PDF
Environmental Studies (ENV223)	The environment was taught to students, along with the causes of pollution and the steps that must be taken to reduce or eliminate it. Pupils were aware of the rules and legislation pertaining to environmental policy.	Through field study, students are able to directly experience environmental studies and learn about their importance and consequences."	During their field survey students explored various problems and came up with solutions.	NA	Smart Board	PDF
Chemistry Lab V (CHE301P)	Hands -on experimentation for the preparation of complex compound and their characterization by UV-Vis and FTIR techniques.	Students work in groups to conduct experiments and solve related problems.	Students are presented with a problem and must design and conduct experiments to solve it.	NA	Lab	PDF
Application of Spectroscopy (CHE611T)	The students are engaged in understanding the basic principles of the topics included in Organic Chemistry, learn the principles and their application	The students are arranged in groups and allowed to work on a single alloted topic after the completion of a certain module	On the very topic problems are given and the students take it as an assignment to submit on a due time.	The students also present the topics through group presentations.	Smart Board	PDF
Organic Chemistry V (CHE302)	The students are engaged in understanding the basic principles of the topics included in Organic Chemistry, learn the principles and their application	The students are arranged in groups and allowed to work on a single alloted topic after the completion of a certain module	On the very topic problems are given and the students take it as an assignment to submit on a due time.	The students also present the topics through group presentations.	Smart Board	PDF

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Website : www.iutripura.edu.in, Email : registrar@iutripura.edu.in

Date: 27/09/2024

Department of Physics
Qualitative Write-up
2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences

The University emphasizes experiential and participative learning approaches to engage students in their educational journey:

- **Experiential Learning:**
  A. Laboratory Sessions are conducted where the students can perform various experiments.
  B. Students develop projects on the latest technologies.
  C. Visit institutes like NIELIT to engage them in experiential learning while visiting the organization.
- **Participative Learning:**
  A. For Participatory Learning, students participate in different activities such as seminars, group discussions, projects, etc.
  B. Every year annual cultural programs are organized for the students of the department to give an opening to their creativity
  C. Regular Quizzes are organized for student participation.
  D. Students develop technical skills while presenting papers in seminars.
- **Problem-solving:**
  A. The department encourages students to acquire and develop problem-solving skills.
  B. For this, the department organizes expert lectures on different topics online/offline.
  C. Regular assignments based on the scientific methods taught in the classes.
  D. Mini Project development, Regular Quizzes, Class presentations.

2.3.2 - Teachers use ICT-enabled tools, including online resources, for effective teaching and learning processes during the year:

- **Introduction to ICT-enabled Teaching:** Teachers use ICT tools and online resources for effective teaching-learning processes, viz., ERP Systems, LMS, etc.

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- **Utilization of ICT in Teaching and Learning:** Classrooms are equipped with ICT facilities to facilitate interactive teaching methods like Smart Classroom with Internet Connection.

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2.3.1: Student-centric methods:

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Sl.	Faculty Name	Program	Semester	Course Name	Course Code	Experiential Learning	Participative Learning	Problem-Solving Methodologies	Any Other Methods	ICT enabled tools	Any Online Resources
1	Dr. Sourav Chattopadhyay	B.Sc. Physics	Sem-I	Mathematical Physics I	PHY112T	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT Presentation, graphical visualization	PDF, NPTEL
2	Dr. Sourav Chattopadhyay	B.Sc. Physics	Sem-II	Mathematical Physics II	PHY123T	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT Presentation, graphical visualization	PDF, NPTEL
3	Dr. Sourav Chattopadhyay	M.Sc. Physics	Sem-II	Statistical Mechanics	PHY612T	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT Presentation, graphical visualization	NA
4	Dr. Sourav Chattopadhyay	B.Sc. Physics	Sem-I	Introduction to Computer	CA104	Computer Programming Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT presentation.	NPTEL lectures
5	Dr. Sourav Chattopadhyay	B.Sc. Physics, Chemistry	Sem-II	Introduction to C programming	CS109	Computer Programming Skill	Group Presentation during Internal assessment	Practical Classes	NIL	Use of Smart Board, Computer Lab	Online tutorials
6	Dr. Arunabha Saha	B.Sc. Physics 3rd Year	Sem-II	Digital Electronics lab	PHY309P	Practical Troubleshooting Skills	Group work in Lab	Practical Classes	NIL	NA	NA
7	Dr. Arunabha Saha	B.Sc. Physics 3rd Year	Sem-II	Nuclear Physics	PHY311	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT presentation.	NA
8	Dr. Arunabha Saha	B. Sc. Physics 2nd yr	Sem-II	Quantum Theory	PHY228	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT presentation.	NA
9	Dr. Arunabha Saha	M.Sc. Physics 2nd Year	Sem I	Nuclear & Particle Physics	PHY614T	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT presentation.	NA
10	Dr. Arunabha Saha	B.Sc. 2nd Year	Sem I	General Physics III	PHY216T	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT presentation.	NA
11	Dr. Arunabha Saha	B.Sc. Physics 3rd Year	Sem I	Quantum mechanics	PHY314	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT presentation.	NA

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12	Dr. Ganesh Adhikary	B. Sc. Physics 2nd yr	Sem-II	Electromagnetic Theory	PHY221T	Experimental verification of Brewster's law	Group work in Lab for the project	Finding out Brewster's angle by fitting the data using least square method.	NIL	Use of Smart Board, PPT Presentation, graphical visualization	NA
13	Dr. Ganesh Adhikary	M. Sc. Physics 2nd yr	Sem-II	Experimental Techniques	PHY621T	individual Presentation on different post-graduate experiments performed in 1st yr and 2nd yr	Group presentation on topics from the syllabus of PHY621T	Designing of Photodetector for specific quantum efficiency	NIL	Use of Smart Board, PPT Presentation, graphical visualization	NA
14	Dr. Ganesh Adhikary	M. Sc. Physics 1st yr	Sem-II	Modern Physics Lab	PHY404P	Finding out the source of error if present	Group discussion during viva after performing each experiment	Finding out the precautions to be taken to reduce error	NIL	NA	NA
15	Tuhin Subhra Mukherjee	BSc Mathematics, Chemistry, BSc BEd special education	I	Mechanics	PHY103	Practical,Skill Development	Presentation	Tutorial Sessions	NA	NA	NA
16	Tuhin Subhra Mukherjee	BSc Physics	I	Fundamentals of Classical Mechanics	PHY201	Skill Development	Presentation	Tutorial Sessions	NA	NA	NA
17	Tuhin Subhra Mukherjee	MSc Physics	I	Electronics Lab	PHY513P	Practical	Group Activity	Problem Troubleshooting	NA	NA	NA
18	Tuhin Subhra Mukherjee	MSc Physics	I	Mathematical Methods of Physics-I	PHY405	Skill Development	Presentation	Tutorial Sessions	NA	NA	NA
19	Tuhin Subhra Mukherjee	BSc Physics	II	Introduction to Heat and Thermodynamics	PHY130	Skill Development, Practical	Presentation	Tutorial Sessions, Problem Troubleshooting	NA	NA	NA
20	Tuhin Subhra Mukherjee	BSc Mathematics	II	General Physics-IV	PHY226T	Skill Development	Presentation	Tutorial Sessions	NA	NA	NA
21	Tuhin Subhra Mukherjee	MSc Physics	II	Mathematical Methods of Physics-I	PHY408	Skill Development	Presentation	Tutorial Sessions	NA	NA	NA
22	Tuhin Subhra Mukherjee	MSc Physics	II	Scientific Writing and Ethics	PHY525T	Skill Development	Presentation, Group Activity	Problem Troubleshooting	NA	NA	NA
23	Dr. Camelia Das	BSc Physics	II	Digital Electronics and Solid State Physics	PHY309	Skil development and practical based course	Presentation, small project (control circuit)	Tutorials and pratical classes	NA	Smart board	NA
24	Dr. Camelia Das	MSc Physics	I	Electronics and Digital System	PHY406	Skil development and practical based course	Presentation	Tutorials and pratical classes	NA	Smart board	NA

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25	Dr. Camelia Das	MSc Physics	II	Classical electrodynamics	PHY521	Analytical skill	Presentation (oral, poster)	Tutorials	NA	Smart board	NA
26	Dr. Bibhabasu De	B.Sc. Physics	I	Computational Physics	PHY303	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT Presentation, graphical visualization	Online PDF materials
27	Dr. Bibhabasu De	B.Sc. Physics	I	Computational Physics Lab	PHY303P	Computer Programming Skill	Group Presentation during Internal assessment	Practical Classes	NIL	Use of Smart Board, Computer Lab	Online PDF materials
28	Dr. Bibhabasu De	B.Tech. CE, CSE, ME, ECE, EE	I	Physics	PHY101	Analytical and practical skill	Group Presentation during Internal assessment	Tutorial and Practical Classes	NIL	Use of Smart Board, Physics Lab	Online PDF materials
29	Dr. Bibhabasu De	B.Sc. Physics	II	Phase Transition & Critical Phenomena	PHY315	Analytical Skill	Poster presentation	Tutorial Classes	NIL	Use of Smart Board, PPT Presentation, graphical visualization	Online PDF materials
30	Dr. Bibhabasu De	M.Sc. Physics	II	High Energy Physics	PHY515	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT Presentation, graphical visualization	Online PDF materials
31	Dr. Bibhabasu De	B.Sc. Mathematics	II	Introduction to C programming	CS109	Computer Programming Skill	Group Presentation during Internal assessment	Practical Classes	NIL	Use of Smart Board, Computer Lab	Online PDF materials
32	Dr. Dipayan Chattopadhyay	M.Sc Physics	Sem II	superconductivity and Magnetism	PHY520	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board	Online PDF materials
33	Dr. Dipayan Chattopadhyay	MCA 2nd Year	Sem II	Machine Learning	CS510	Computer Programming Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board	Online PDF materials
34	Dr. Dipayan Chattopadhyay	B.Sc 2nd Year Physics	Sem II	Introduction to Machine Learning and AI	CS205	Computer Programming Skill	Group Presentation during Internal assessment	Tutorial and Practical Classes	NIL	Use of Smart Board, Computer Lab	Online PDF materials
35	Dr. Dipayan Chattopadhyay	B.Sc 2nd Year Mathematics	Sem II	Introduction to Machine Learning and AI	CS205	Computer Programming Skill	Group Presentation during Internal assessment	Tutorial and Practical Classes	NIL	Use of Smart Board, Computer Lab	Online PDF materials
36	Dr. Dipayan Chattopadhyay	B.Sc 2nd Year Chemistry	Sem II	Introduction to Machine Learning and AI	CS205	Computer Programming Skill	Group Presentation during Internal assessment	Tutorial and Practical Classes	NIL	Use of Smart Board, Computer Lab	Online PDF materials
37	Dr. Dipayan Chattopadhyay	B.Sc 1st Year Physics	Sem II	Thermal Physics	PHY131	Experimental Skill	Group Activity	Practical Classes	NIL	Use of Physics Lab	Online PDF materials

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38	Dr. Dipayan Chattopadhyay	M.Sc Physics 1st Year	Sem I	Classical Mechanics	PHY401	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board	Online PDF materials
39	Dr. Dipayan Chattopadhyay	B.Tech. CE, CSE, ME, ECE, EE	Sem I	Physics	PHY101	practical skill	Group Activity	Practical Classes	NIL	Use of Physics Lab	Online PDF materials
40	Dr. Dipayan Chattopadhyay	B.Sc 2nd Year Physics	Sem I	Data Science Foundations	CS201	Computer Programming Skill	Group Presentation during Internal assessment	Tutorial and Practical Classes	NIL	Use of Smart Board, Computer Lab	Online PDF materials
41	Dr. Dipayan Chattopadhyay	B.Sc 2nd Year Mathematics	Sem I	Data Science Foundations	CS201	Computer Programming Skill	Group Presentation during Internal assessment	Tutorial and Practical Classes	NIL	Use of Smart Board, Computer Lab	Online PDF materials
42	Dr. Dipayan Chattopadhyay	B.Sc 2nd Year Chemistry	Sem I	Data Science Foundations	CS201	Computer Programming Skill	Group Presentation during Internal assessment	Tutorial and Practical Classes	NIL	Use of Smart Board, Computer Lab	Online PDF materials
43	Dr. Sovan Ghosh	M.Sc Physics 2nd Year	Sem 1	Introduction to Astronomy and Astrophysics	PHY651T	Analytical skill, Experimental Skill	Presentation (oral, postar)	Tutorials / Extra practicals using available softwares	NA	Smart board	PDF
44	Dr. Sovan Ghosh	M.Sc Physics 2nd Year	Sem 1	Advanced Quantum Mechanics	PHY502	Analytical skill	Presentation (oral, postar)	Tutorials / Small Projects	NA	Smart board	PDF
45	Dr. Sovan Ghosh	M.Sc Physics 1st Year	Sem 1	Quantum Mechanics and Applications	PHY403	Analytical skill	Presentation (oral, postar)	Tutorials / Small Projects	NA	Smart board	PDF
46	Dr. Sovan Ghosh	B.Tech 1st Year CS	Sem 1	Physics (Lab)	PHY101	Experimental Skill	Group Activity	Practical Classes	NA	Physics Lab	NA
47	Dr. Sovan Ghosh	M.Sc Physics 2nd Year	Sem 2	Cosmology and General Theory of Relativity	PHY526	Analytical skill	Presentation (oral, postar)	Tutorials	NA	Smart board	PDF
48	Dr. Sovan Ghosh	M.Sc Physics 1st Year	Sem 2	Advanced Quantum Mechanics	PHY502	Analytical skill	Presentation (oral, postar)	Tutorials / Small Projects	NA	Smart board	PDF
49	Dr. Sovan Ghosh	B.Sc 2nd Year Chemistry	Sem 2	General Physics IV	PHY226T	Analytical skill	Presentation (oral, postar)	Tutorials	NA	Smart board	PDF
50	Dr. Gobinda Pradhan	B.Sc. Physics	Sem-II	Thermal Physics	PHY131	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Smart Board,	PDF
51	Dr. Gobinda Pradhan	B.Sc. Physics	Sem-II	Electronics	PHY224	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Smart Board,	PDF
52	Dr. Gobinda Pradhan	M.Sc Physics	Sem-II	Photonics	PHY514	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Smart Board,	PDF

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53	Dr. Gobinda Pradhan	B.Sc. Physics	Sem-II	ectronics Lab	PHY225P	Experimental Skill	Group Activity	Practical Classes	NIL	Use of Physics Lab	PDF
54	Priyangshu Rana Borthakur	B.Sc. Physics	Semester I	Electricity & Magnetism	PHY212T	Students prepared different model based on the concepts taught in the class	Poster presentation by group of students	Tutorial Classes	Presentation in the Class	smart board	You tube and pdf
55	Priyangshu Rana Borthakur	B.Sc. Physics	Semester I	Electricity & Magnetism Practical	PHY212P	Skill	Group performance	Practical Classes	NIL	Laboratory	Lab manual
56	Priyangshu Rana Borthakur	B.Sc. Physics	Semester II	Physical Optics	PHY121T	Presentation in the Class	Poster presntation	Tutorial Classes	NIL	smart board	You tube and pdf

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Date: 28/07/2024

Department of Mathematics
Qualitative Write up
2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences

The education system is gradually embracing student-centric methodologies to improve the student engagement and learning outcomes. In undergraduate Mathematics courses, two approaches with exploratory Learning, engagement learning, and problem-solving methodologies—are proving particularly effective. This report explores the implementation and impact of these methods based on qualitative feedback from students and educators. The study aims to understand the perspectives of students, faculty, and administrators regarding the effectiveness of these approaches in fostering critical thinking, problem-solving, and practical skills. The qualitative research design was employed to explore the complexities of student-centric learning. Data was collected through semi-structured interviews with postgraduate students, faculty members, and program administrators. Additionally, focus group discussions were conducted with students to delve deeper into their collective experiences. Thematic analysis was used to identify recurring patterns and themes within the data.
The University emphasizes experiential and participative learning approaches to engage students in their educational journey:

- **Experiential Learning:**

Students reported a significant improvement in practical skills through hands-on experiences, internships, and laboratory work. They valued the opportunity to apply theoretical knowledge to real-world scenarios. Increased Engagement: Experiential learning fostered active engagement and curiosity among students. They were more motivated to learn when they could see the practical implications of their studies. Faculty members expressed the need for adequate resources and infrastructure to support experimental learning activities. They also emphasized the importance of balancing theoretical knowledge with practical experience.

- **Participative Learning:**

Improved Communication and Collaboration: Students highlighted the development of strong communication and collaboration skills through group work, discussions, and presentations. They appreciated the opportunity to learn from their peers. Deeper Understanding of Concepts: Participative learning facilitated a deeper understanding of complex concepts. Students actively constructed knowledge through interaction with faculty and peers. Time Management Challenges: Some students reported difficulties in balancing group work with individual responsibilities. Faculty members emphasized the need for effective time management and organization skills.

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- **Problem-solving:**

Enhanced Critical Thinking: Students developed strong critical thinking abilities through problem-solving activities and case studies. They learned to analyse complex issues, identify solutions, and justify their decisions. Problem-solving experiences boosted students' confidence in tackling real-world challenges. They felt better prepared for professional roles requiring problem-solving skills. Faculty Role: Faculty members highlighted the importance of creating a supportive learning environment that encourages risk-taking and experimentation. They emphasized the need for providing clear guidance and feedback. The findings suggest that experimental, participative, and problem-solving learning methods are effective in enhancing student learning outcomes. These approaches promote active engagement, critical thinking, and practical skills development. However, successful implementation requires adequate resources, faculty support, and a supportive learning environment.

2.3.2 - Teachers use ICT enabled tools including online resources for effective teaching and learning processes during the year:

- **Introduction to ICT-enabled Teaching:** Teachers leverage ICT tools and online resources for effective teaching - learning processes, Like, ERP System, Moodle etc. & also other methods like Digital Platforms e.g., Google Meet, Zoom & Google Classroom etc. These also include some of the traditional modes like sharing documents over G-Mail & WhatsApp/Telegram.
- **Utilization of ICT in Teaching and Learning:** Classrooms are equipped with ICT facilities to facilitate interactive teaching methods, Like Smart Classroom with Internet Connection.

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Academic Year 2023-24

Sl.	Faculty Name	Program	Semester	Course Name	Course Code	Experiential Learning	Participative Learning	Problem-Solving Methodologies	Any Other Methods	ICT enabled tools	Any Online Resources
1	Dr. Nilay Mondal	BTECH	Sem-I	Mathematics III	MA211	Analytical Skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board, PPT	PDF
2	Dr. Nilay Mondal	B.Sc. Mathematics	Sem-I	Calculus of variations	MAT305	Analytical Skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board, PPT	PDF
3	Dr. Nilay Mondal	M.Sc Mathematics	Sem-I	Ordinary differential	MA503	Analytical Skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board, PPT	NA
4	Dr. Nilay Mondal	M.Sc Mathematics	Sem-I	Technical report writting	MA524	Computer Programming Skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board, PPT	NPTEL lectures
5	Dr. Nilay Mondal	B.Sc. Mathematics	Sem-II	Differential equations II	MAT223T	Analytical Skill	Group Presentation	Practical Classes	NIL	Use of Smart Board	Online tutorials
6	Dr. Nilay Mondal	M.Sc Mathematics &	Sem-II	Numerical Analysis	MA523T	Practical Troubleshooting	Group work in Lab	Practical Classes	NIL	Use of Smart Board,	NA
7	Dr. Nilay Mondal	M.Sc Mathematics &	Sem-II	Numerical Analysis Lab	MA523P	Computer Programming Skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board,	NA
8	Dr. Nilay Mondal	M.Sc Mathematics	Sem-II	Calculus of variations and	MA553	Analytical Skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board, PPT	NA
9	Dr. Prasenjit Bal	M.Sc Mathematics	Sem-II	Mathematical Methods	MA556	Use of Mathematical tools	Group Presentation	Tutorial Classes	NIL	Use of Smart Board, PPT	NA
10	Dr. Prasenjit Bal	M.Sc Mathematics	Sem-II	Linear Algebra I	MA505	Real Life problem solving skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board, PPT	NA
11	Dr. Prasenjit Bal	B.Sc. Mathematics	Sem-II	Vector Calculus	MAT221T	Analytical Skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board, PPT	NA
12	Dr. Prasenjit Bal	M.Sc Mathematics	Sem-I	Topology	MA557	Analytical Skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board, PPT	NA
13	Dr. Prasenjit Bal	MCA	Sem-I	Probability & Statistical	STAT401	Use of Mathematical tools	Group Presentation	Tutorial Classes	NIL	Use of Smart Board, PPT	NA
14	Dr. Prasenjit Bal	B. Tech	Sem-I	Mathematics I	MA111	individual Presentation on	Group presentation on	Designing of Photodetector for	NIL	Use of Smart Board, PPT	NA
14	Dr. Debjani Rakshit	M.Sc Mathematics	Sem-I	Mathematical Analysis-I	MA502	Analytical Skill	Group Presentation	Tutorial Sessions	NIL	NA	NA
15	Dr. Debjani Rakshit	M.Sc Mathematics	Sem-I	Operation Research	MA554	Real Life problem solving skill	Group Presentation	Tutorial Sessions	NA	NA	NA
16	Dr. Debjani Rakshit	B.Sc Mathematics	Sem-I	Abstract Algebra-II	MAT211T	Analytical Skill	Group Presentation	Tutorial Sessions	NA	Use of Smart Board, PPT	NA
17	Dr. Debjani Rakshit	BCA	Sem-I	Mathematics-I	MATH101	Use of Mathematical tools	Group Presentation	Tutorial Sessions	NA	Use of Smart Board, PPT	NA
18	Dr. Debjani Rakshit	B.Sc Mathematics	Sem-II	Group Theory	MAT126	Analytical Skill	Group Presentation	Tutorial Sessions	NA	Use of Smart Board, PPT	NA
19	Dr. Debjani Rakshit	B.Sc Mathematics	Sem-II	Graph Theory	MAT309	Real Life problem solving skill	Group Presentation	Tutorial Sessions	NA	Use of Smart Board, PPT	NA
20	Dr. Debjani Rakshit	MCA & Int. MCA	Sem-II	Operation Research	MATH303	Real Life problem solving skill	Group Presentation	Tutorial Sessions	NA	Use of Smart Board, PPT	NA
21	Dr Rakhal Das	BCA	Sem-I	Mathematics-I	MATH101	Practical	Group Activity	Tutorial Sessions	NA	Use of Smart Board, PPT	NA

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22	Dr. Rakhal Das	B.Sc Mathematics	Sem-I	alysis-II	MAT301	Analytical Skill	Group Presen on	Tutorial Sessions	NA	Use of Smart Board, PPT	NA
23	Dr Rakhal Das	B.Sc Mathematics	Sem-I	Analysis-II	MAT121T	Skil development and practical	Presentation, small project	Tutorials and pratical classes	NA	Smart board	NA
24	Dr Rakhal Das	M.Sc Mathematics,	Sem-I	Modern Algebra-I	MA552	Analytical skill	Presentation (oral, postar)	Tutorials	NA	Smart board	NA
25	Dr. Rakhal Das	M.Sc Mathematics,	Sem-II	Modern Algebra-II	MA551	Analytical Skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board, PPT	Online PDF materials
26	Dr Rakhal Das	B.Sc Mathematics	Sem-II	Analytic Geometry	MAT113T	Computer Programming Skill	Group Presentation	Practical Classes	NIL	Use of Smart Board,	Online PDF materials
27	Dr. Rakhal Das	B.Sc Mathematics	Sem-I	Fuzzy Set Theory	MAT311	Analytical and practical skill	Group Presentation	Tutorial and Practical Classes	NIL	Use of Smart Board, Physics	Online PDF materials
29	Dr. Palas Mandal	B.Tech	Sem-I	Mathematics-III	MA211	Analytical Skill	Group Discussion,	Tutorial Classes, Assignment	NIL	Use of Smart Board, PPT	Online PDF materials,
30	Dr. Palas Mandal	B.Sc. Mathematics,	Sem-I	Metric Space and Complex	MAT302	Analytical Skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board, PPT	Online PDF materials
31	Dr. Palas Mandal	M.Sc. Mathematics,	Sem-I	Graph Theory	MA603	Analytical Skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board, PPT	Online PDF materials
32	Dr. Palas Mandal	B.Sc. Mathematics,	Sem-II	Numerical Analysis	MAT307	Analytical and Numerical Skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board,	Online PDF materials
33	Dr. Palas Mandal	B.Sc. Mathematics,	Sem-II	Computational Lab of Numerical	MAT307P	Computer Programming Skill	Group Presentation	Practical Classes	NIL	Use of Smart Board	Online PDF materials
34	Dr. Palas Mandal	B.Sc. Mathematics,	Sem-II	Statics and Dynamics of	MAT222T	Analytical Skill	Group Presentation	Tutorial and Practical Classes	NIL	Use of Smart Board,	Online PDF materials
35	Dr. Palas Mandal	M.Sc. Mathematics,	Sem-II	Complex Analysis	MA506	Analytical Skill	Group Presentation	Tutorial and Practical Classes	NIL	Use of Smart Board,	Online PDF materials
36	Prof. Soumi Thakur Chakraborty	B.Tech	Sem-I	Discrete Structure for	CSE203	Logical and Analytical Skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board	PDF
37	Prof. Soumi Thakur Chakraborty	MCA	Sem-I	Probability and Statistics	STAT3401	Analytical Skill	Group Activity	Tutorial Classes	NIL	Use of Smart Board	PDF
38	Prof. Soumi Thakur Chakraborty	BCA	Sem-I	Probability and Statistics	MATH111	Analytical Skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board	PDF
39	Prof. Soumi Thakur Chakraborty	B.Sc. Mathematics	Sem-II	Probability and Statistics	STAT301	Analytical Skill	Group Activity	Tutorial Classes	NIL	Use of Smart Board	PDF
40	Prof. Soumi Thakur Chakraborty	M.Sc. Mathematics	Sem-II	Probability and Statistics		Analytical Skill	Group Activity	Tutorial Classes	NIL	Use of Smart Board	PDF
41	Prof. Soumi Thakur Chakraborty	B.Sc. CCT, DT, HIM,EMT,	Sem-II	Research methodology and	PMS122	Analytical Skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board,	PDF
42	Dr. Sayan Chandra Deb	B.Sc. Mathematics	Sem-I	Discrete Mathematics	MAT314	Analytical Skill	Group Presentation	Tutorial and Practical Classes	NIL	Use of Smart Board,	PDF
43	Dr. Sayan Chandra Deb	B.Tech	Sem-I	Mathematics III	MA211	Analytical Skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board, PPT	PDF
44	Dr. Sayan Chandra Deb	B.Sc. Mathematics	Sem-II	Linear Algebra II	MAT224T	Analytical Skill	Group Presentation	Tutorial and Practical Classes	NIL	Use of Smart Board,	NA
45	Dr. Sayan Chandra Deb	B.Sc. Physics and Chemistry	Sem-II	General Mathematics IV	MAT225T	Analytical Skill	Group Presentation	Tutorial and Practical Classes	NIL	Use of Smart Board,	NA
46	Dr. Sayan Chandra Deb	M.Sc. Mathematics	Sem-II	Mathematical Analysis II	MA552	Analytical Skill	Group Presentation	Tutorial and Practical Classes	NIL	NA	NA

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47	Dr. Mithun Datta	M.Sc. Mathematics	Sem-I	Linear Algebraa	MA555	Analytical skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board	PDF
48	Dr. Mithun Datta	B.Sc. Mathematics	Sem-I	Linear Programming	MAT303	Analytical skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board	PDF
49	Dr. Mithun Datta	B.Tech	Sem-I	MAthematics I	MA111	Analytical skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board	PDF
50	Dr. Mithun Datta	B.Tech	Sem-I	Discrete Structure for	CSE203	Logical and Analytical Skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board	PDF
51	Dr. Mithun Datta	M.Sc. Mathematics	Sem-II	Introduction to Fuzzy	MAT502	Analytical skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board	PDF
52	Dr. Mithun Datta	B.Tech	Sem-II	Mathematics II	MA121	Analytical skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board	PDF
53	Dr. Mithun Datta	B.Sc. Mathematics	Sem-II	Linear Programming	MAT303	Analytical skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board	PDF
54	Dr. Mithun Datta	B.Tech	Sem-II	Mathematics IV	MA213	Analytical skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board	PDF
55	Dr. Mithun Datta	MCA	Sem-II	Operations Research	MATH303	Analytical skill	Group Presentation	Tutorial Classes	NIL	Use of Smart Board	PDF
56	Tanmayee Datta	Bsc Phy, Chem and B.sc - B.ed	Sem-II	Differential Equations	MAT120	Analytical skill	Group Presentation	Tutorial Classes	NIL	Use of smart board	PDF
57	Susmita Sarkar	B.Sc mathematics	Sem-I	Classical Algebra	MAT111T	Analytical skill	Group Presentation	Tutorial Classes	NIL	Use of smart board	PDF
58	Parthiba Das	B.Sc phy, chem, B.ed	Sem-I	Algebra	MAT101	Analytical skill	Group Presentation	Tutorial Classes	Nil	Use of smart board	PDF
59	Krishna Bhattacharjee	B.Sc phy, chem,	Sem-I	General Mathematics -III	MAT214T	Analytical skill	Group Presentation	Tutorial Classes	Nil	Use of smart board	PDF
60	Krishna Bhattacharjee	B.SC Math 3rd year	Sem-II	Integral Transform	MAT308	Analytical skill	Group Presentation	Tutorial Classes	Nil	Use of smart board	PDF
61	Arnab Ghosh	B.SC. Math 2nd Year	Sem - I	Linear Algebra - I	MAT212T	Problem solving skill	Group Presentation	Tutorial Classes	Nil	Use of smart board	E-Books and Online Materials
62	Arnab Ghosh	B.SC. Math 3rd Year	Sem - I	Multivariable Calculus	MAT313T	Problem solving skill	Group Presentation	Tutorial Classes	Nil	Use of smart board	E-Books and Online Materials
63	Arnab Ghosh	M.SC. Math 2nd Year	Sem - I	Functional Analysis - I	MA559	Problem solving skill	Group Presentation	Tutorial Classes	Nil	NA	E-Books and Online Materials
64	Arnab Ghosh	B.Tech. 1st Year	Sem - II	Mathematics - II	MA121	Analytical Skill	Group Presentation	Tutorial Classes	Nil	Use of smart board	E-Books and Online Materials
65	Arnab Ghosh	M.SC. Math 2nd Year	Sem - II	Functional Analysis - II	MA656	Problem solving skill	Group Presentation	Tutorial Classes	Nil	NA	E-Books and Online Materials

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Course Name	Course Code	Experiential Learning	Participative Learning	Problem Solving Methodolies	Anyother Methods	ICT enabled Tools	Any Other Online Resources
Mathematics III	MA211	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT Presentation, graphical visualization	PDF
Calculus of variations	MAT305	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT Presentation, graphical visualization	PDF
Ordinary differential equations	MA503	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT Presentation, graphical visualization	NA
Technical report writting	MA524	Computer Programming Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT presentation.	NPTEL lectures
Differential equations II	MAT223T	Analytical Skill	Group Presentation during Internal assessment	Practical Classes	NIL	Use of Smart Board	Online tutorials
Numerical Analysis	MA523T	Practical Troubleshooting Skills	Group work in Lab	Practical Classes	NIL	Use of Smart Board, Computer Lab	NA
Numerical Analysis Lab	MA523P	Computer Programming Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, Computer Lab	NA
Calculus of variations and integral equations	MA553	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT presentation.	NA
Mathematical Methods	MA556	Use of Mathematical tools	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT presentation.	NA
Linear Algebra I	MA505	Real Life problem solving skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT presentation.	NA
Vector Calculus	MAT221T	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT presentation.	NA
Topology	MA557 -	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT presentation.	NA
Probability & Statistical	STAT401	Use of Mathematical tools	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT presentation.	NA

Link

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Mathematics I	MA111	individual Presentation different post-gradua experiments performed in 1st yr and 2nd yr	Group presentation on topics from the syllabus of PHY621T	Designing of Photodetector for specific quantum efficiency	NIL	Use of Smart Board, PPT Presentation, graphical visualization	NA
Mathematical Analysis-I	MA502	Analytical Skill	Group Presentation during Internal assessment	Tutorial Sessions	NIL	NA	NA
Operation Research	MA554	Real Life problem solving skill	Group Presentation during Internal assessment	Tutorial Sessions	NA	NA	NA
Abstract Algebra-II	MAT211T	Analytical Skill	Group Presentation during Internal assessment	Tutorial Sessions	NA	Use of Smart Board, PPT Presentation, graphical visualization	NA
Mathematics-I	MATH101	Use of Mathematical tools	Group Presentation during Internal assessment	Tutorial Sessions	NA	Use of Smart Board, PPT Presentation, graphical visualization	NA
Group Theory	MAT126	Analytical Skill	Group Presentation during Internal assessment	Tutorial Sessions	NA	Use of Smart Board, PPT Presentation, graphical visualization	NA
Graph Theory	MAT309	Real Life problem solving skill	Group Presentation during Internal assessment	Tutorial Sessions	NA	Use of Smart Board, PPT Presentation, graphical visualization	NA
Operation Research	MATH303	Real Life problem solving skill	Group Presentation during Internal assessment	Tutorial Sessions	NA	Use of Smart Board, PPT Presentation	NA
Mathematics-I	MATH101	Practical	Group Activity	Tutorial Sessions	NA	Use of Smart Board, PPT Presentation, graphical visualization	NA
Analysis-II	MAT301	Analytical Skill	Group Presentation during Internal assessment	Tutorial Sessions	NA	Use of Smart Board, PPT Presentation, graphical visualization	NA
Analysis-II	MAT121T	Skil development and practical based course	Presentation, small project (control circuit)	Tutorials and pratical classes	NA	Smart board	NA
Modern Algebra-I	MA552	Analytical skill	Presentation (oral, postar)	Tutorials	NA	Smart board	NA
Modern Algebra-II	MA551	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT Presentation, graphical visualization	Online PDF materials
	MAT113T	Computer Programming Skill	Group Presentation during Internal assessment	Practical Classes	NIL	Use of Smart Board, Computer Lab	Online PDF materials

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Fuzzy Set Theory	MAT311	Analytical and practical skill	Group Presentation during Internal assessment	Tutorial and Practical Classes	NIL	Use of Smart Board, Physics Lab	Online PDF materials
Mathematics-III	MA211	Analytical Skill	Group Discussion, Poster presentation	Tutorial Classes, Assignment Solved	NIL	Use of Smart Board, PPT Presentation, graphical visualization	Online PDF materials, NPTEL,
Metric Space and Complex Analysis	MAT302	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT Presentation, graphical visualization	Online PDF materials
Graph Theory	MA603	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT Presentation, graphical visualization	Online PDF materials
Numerical Analysis	MAT307	Analytical and Numerical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, Computer Lab	Online PDF materials
Computational Lab of Numerical Analysis	MAT307P	Computer Programming Skill	Group Presentation during Internal assessment	Practical Classes	NIL	Use of Smart Board	Online PDF materials
Statics and Dynamics of Particle	MAT222T	Analytical Skill	Group Presentation during Internal assessment	Tutorial and Practical Classes	NIL	Use of Smart Board, Computer Lab	Online PDF materials
Complex Analysis	MA506	Analytical Skill	Group Presentation during Internal assessment	Tutorial and Practical Classes	NIL	Use of Smart Board, Computer Lab	Online PDF materials
Discrete Structure for Computer Science	CSE203	Logical and Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board	PDF
Probability and Statistics	STAT3401	Analytical Skill	Group Activity	Tutorial Classes	NIL	Use of Smart Board	PDF
Probability and Statistics	MATH111	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board	PDF
Probability and Statistics	STAT301	Analytical Skill	Group Activity	Tutorial Classes	NIL	Use of Smart Board	PDF
Probability and Statistics		Analytical Skill	Group Activity	Tutorial Classes	NIL	Use of Smart Board	PDF
Research methodology and Biostatistics	PMS122	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, Computer Lab	PDF

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Discrete Mathematics	MAT314	Analytical Skill	Group Presentation during Internal assessment	Tutorial and Practical Classes	NIL	Use of Smart Board, Computer Lab	PDF
Mathematics III	MA211	Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board, PPT Presentation, graphical visualization	PDF
Linear Algebra II	MAT224T	Analytical Skill	Group Presentation during Internal assessment	Tutorial and Practical Classes	NIL	Use of Smart Board, Computer Lab	NA
General Mathematics IV	MAT225T	Analytical Skill	Group Presentation during Internal assessment	Tutorial and Practical Classes	NIL	Use of Smart Board, Computer Lab	NA
Mathematical Analysis II	MA552	Analytical Skill	Group Presentation during Internal assessment	Tutorial and Practical Classes	NIL	NA	NA
Linear Algebraa II	MA555	Analytical skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board	PDF
Linear Programming Problem	MAT303	Analytical skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board	PDF
MAthematics I	MA111	Analytical skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board	PDF
Discrete Structure for Computer Science	CSE203	Logical and Analytical Skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board	PDF
Introduction to Fuzzy Mathematics	MAT502	Analytical skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board	PDF
Mathematics II	MA121	Analytical skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board	PDF
Linear Programming Problem	MAT303	Analytical skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board	PDF
Mathematics IV	MA213	Analytical skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board	PDF
			Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of Smart Board	PDF

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Differential Equations	MAT120	Analytical skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of smart board	PDF
Classical Algebra	MAT111T	Analytical skill	Group Presentation during Internal assessment	Tutorial Classes	NIL	Use of smart board	PDF
Algebra	MAT101	Analytical skill	Group Presentation during Internal assessment	Tutorial Classes	Nil	Use of smart board	PDF
General Mathematics -III	MAT214T	Analytical skill	Group Presentation during Internal assessment	Tutorial Classes	Nil	Use of smart board	PDF
Integral Transform	MAT308	Analytical skill	Group Presentation during Internal assessment	Tutorial Classes	Nil	Use of smart board	PDF
Linear Algebra - I	MAT212T	Analytical and Problem solving skill	Group Presentation during Internal assessment and viva	Tutorial Classes	Nil	Use of smart board	E-Books and Online Materials
Multivariable Calculus	MAT313T	Analytical and Problem solving skill	Group Presentation during Internal assessment and viva	Tutorial Classes	Nil	Use of smart board	E-Books and Online Materials
Functional Analysis - I	MA559	Analytical and Problem solving skill	Group Presentation during Internal assessment and viva	Tutorial Classes	Nil	NA	E-Books and Online Materials
Mathematics - II	MA121	Analytical Skill	Group Presentation during Internal assessment and viva	Tutorial Classes	Nil	Use of smart board	E-Books and Online Materials
Functional Analysis - II	MA656	Analytical and Problem solving skill	Group Presentation during Internal assessment and viva	Tutorial Classes	Nil	NA	E-Books and Online Materials

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Qualitative form of Student centric method
Semester-1, 2023-2024, Program Name:- BPES-1yr

Summary:

a. **Experiential Learning:** Workshops with experts, visits to child development centers, hands-on dissections, and immersive English environments.
b. **Participative Learning:** Discussions on physical education evolution, child psychology topics, complex physiological issues, and group dialogues in English literature.
c. **Problem-Solving Methodologies:** Analysis of historical cases in physical education, real-life child psychology studies, clinical case studies for physiological understanding, and English communication case studies.
d. **Any Other Methods:** Online lecture materials for self-study and real-world task-oriented language use.
e. **ICT-Enabled Tools:** Virtual tours of historical sports venues, simulations for child development, interactive 3D anatomy tools, and language-learning apps.
f. **Any Other Online Resources:** Webinars with experts and access to academic resources like JSTOR and Google Scholar.

Semester-III, 2023-2024, Program Name:- BPES-2yr

Summary:

a. **Experiential Learning:** Students organize sports events, visit health clinics, participate in adapted PE workshops, and design well-being activities.
b. **Participative Learning:** Involves group projects on administrative frameworks, health campaigns, designing activities for specific populations, and organizing value-based recreational events.
c. **Problem-Solving Methodologies:** Includes case studies on PE management challenges, environmental health issues, adapted physical activity programs, and stress management programs.
d. **Any Other Methods:** Encompasses role-playing as PE administrators, interdisciplinary research, collaboration with occupational therapists, and integrating values-based education.
e. **ICT Enabled Tools:** Utilizes project management tools (like Trello/Asana), health-tracking apps, motion-analysis software, and online research platforms.
f. **Any Other Online Resources:** Features webinars on sports administration, WHO reports, AAHPERD resources, and UNESCO materials on value-based education.

Semester-V, 2023-2024, Program Name:- BPES-3yr

Summary:

a. **Experiential Learning:** Involves practical sessions for analyzing human motion, organizing sports events, officiating real sports matches, and engaging in communication practice through debates.

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b. **Participative Learning:** Includes group projects on muscle analysis, discussions on resource management in sports, role-playing as sports officials, and language projects for collaborative learning.
c. **Problem-Solving Methodologies:** Students work on real-life biomechanical issues, management case studies in sports, dispute resolutions in officiating, and collaborative problem-solving in language comprehension.
d. **Other Methods:** Emphasizes collaboration with physiotherapists, role-playing as sports managers and officials, and workshops focusing on ethics and communication skills.
e. **ICT Tools:** Utilizes motion-capture software, sports management tools, digital tools for officiating, and language learning apps.
f. **Online Resources:** Provides access to online journals, sports management courses, sports federation resources, and literature platforms for language learning.

Semester-I, 2023-2024, Program Name:- BPED-1yr

Summary:

a. **Experiential Learning:** Focuses on analyzing historical physical education (PE) documents, conducting dissection labs for human anatomy, field trips to observe community health practices, and practical officiating in sports events.
b. **Participative Learning:** Involves group projects to develop PE foundations, collaborative analysis of physiological responses, community health improvement initiatives, and group activities simulating officiating challenges.
c. **Problem-Solving Methodologies:** Engages students in solving historical case studies, addressing injury recovery and physiological issues, proposing solutions to environmental health challenges, and resolving coaching and sports rules disputes.
d. **Other Methods:** Encourages role-playing as education policymakers, medical professionals, coaches, and community health advocates for deeper insights and understanding.
e. **ICT Tools:** Utilizes digital archives for PE history research, anatomical simulation software, health data analytics tools, and officiating software with video review capabilities.
f. **Online Resources:** Provides access to online academic databases on education history, anatomy and physiology journals, WHO reports, and online resources from sports organizations and coaching manuals.

Semester-III, 2023-2024, Program Name:- BPED-2yr

Summary:

a. **Experiential Learning:** Involves conducting training sessions with athletes, hands-on projects using software for data analysis in physical education, conducting surveys and psychological assessments, and practical sessions on injury assessment and rehabilitation techniques.

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b. **Participative Learning:** Includes group projects designing training programs for various sports, developing PE-related applications or software, collaborating on research projects in sports psychology, and group work on rehabilitation case studies.
c. **Problem-Solving Methodologies:** Engages students in analyzing and solving training-related performance issues, case studies involving computer applications in sports management, developing intervention strategies for athletes' mental health, and designing effective rehabilitation protocols.
d. **Other Methods:** Encourages collaboration with coaches for feedback on training techniques, workshops on integrating technology into PE programs, role-playing scenarios for psychological coaching techniques, and collaboration with healthcare professionals for integrated treatment plans.
e. **ICT Tools:** Utilizes performance tracking software for analyzing training data, educational software such as SPSS and Excel for data analysis, psychology assessment tools, and rehabilitation software for tracking patient progress.
f. **Online Resources:** Provides access to online coaching platforms for training methodologies, resources for educational technology in PE, journals on sports psychology, and resources from sports medicine organizations.

Semester-I, 2023-2024, Program Name:- PGDY-1yr

Summary:

a. **Experiential Learning:** Involves practicing foundational yoga techniques and postures, practical sessions on Hatha Yoga postures and breathing techniques, hands-on analysis of body systems related to yoga, and incorporating yogic principles into daily routines.
b. **Participative Learning:** Includes group practice sessions for demonstrating and correcting yoga postures, group work to develop Hatha Yoga routines for various levels, group projects to understand the physiological benefits of yoga, and discussions on the benefits of a yogic lifestyle.
c. **Problem-Solving Methodologies:** Engages students in solving issues related to beginner mistakes in foundational yoga, addressing flexibility and strength challenges in Hatha Yoga, analyzing case studies on anatomy and its connection to yoga performance, and overcoming challenges of adopting yogic practices in modern life.
d. **Other Methods:** Encourages collaboration on research about ancient yoga texts and traditions, guided meditation sessions for deeper understanding, collaboration with healthcare professionals for anatomical insights, and role-playing scenarios to implement yogic values in everyday life.
e. **ICT Tools:** Utilizes apps to track posture and progress (e.g., Yoga Journal), yoga training videos and apps for posture improvement, anatomy apps and software for better understanding, and mindfulness apps to track lifestyle changes.
f. **Online Resources:** Provides access to online courses on yoga foundations (e.g., Udemy, Coursera), online resources on Hatha Yoga (including texts and videos), anatomy and yoga-related online databases and journals, and online articles and videos on the benefits of a yogic lifestyle.

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Semester-I, 2023-2024, Program Name:- MPES-1yr

Summary:

a. **Experiential Learning:** Engage in practical training sessions, workshops on nutrition, internships in PE settings, fitness assessments, and hands-on technology sessions.
b. **Participative Learning:** Collaborate on training program designs, health education campaigns, professional portfolios, fitness test development, and discussions on technology's impact in sports.
c. **Problem-Solving Methodologies:** Analyze training challenges, nutritional case studies, job preparedness scenarios, data evaluations, and technology-related issues in sports management.
d. **Other Methods:** Collaborate with experts, role-play counseling and career preparation scenarios, and work with professionals on testing methodologies and technology integration.
e. **ICT Tools:** Utilize performance analysis software, nutrition analysis tools, job search platforms, statistical software, and technology tracking systems.
f. **Online Resources:** Access journals on sports training, online courses in health education, career development resources, evaluation databases, and advancements in sports technology.

Semester-III, 2023-2024, Program Name:- MPES-2yr

Summary:

a. **Experiential Learning:** Involves hands-on experiments, practical injury assessments, and training sessions with educational technologies to develop practical skills.
b. **Participative Learning:** Focuses on group projects, discussions, and collaborative activities that promote teamwork and shared learning experiences.
c. **Problem-Solving Methodologies:** Encourages analysis of case studies and real-world scenarios to address challenges in biomechanics, injury management, and fitness planning.
d. **Other Methods:** Includes workshops on sports techniques, mental resilience, wellness education, and integrating technology into education.
e. **ICT-Enabled Tools:** Utilizes software for motion analysis, rehabilitation tracking, performance assessment, and fitness monitoring.
f. **Online Resources:** Provides access to research, online courses, and educational materials related to biomechanics, athletic care, sports psychology, and technology in education.

Semester-II, 2023-2024, Program Name:- BPES-1yr

Summary:

a. **Experiential Learning:** Practical sessions focus on diverse teaching methods, injury assessment, and rehabilitation techniques to develop hands-on skills in physical education (PE).

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b. **Participative Learning:** Engages students through group discussions, peer teaching, and collaborative projects that enhance interpersonal skills and conflict resolution strategies.
c. **Problem-Solving Methodologies:** Involves analyzing case studies, role-playing scenarios, and developing IT solutions to address practical challenges in PE and rehabilitation.
d. **Other Methods:** Includes workshops on self-assessment, personal growth, and collaboration with mentors to foster personal and professional development.
e. **ICT-Enabled Tools:** Utilizes educational technology for lesson planning and rehabilitation tracking, enhancing learning through software applications.
f. **Online Resources:** Provides access to courses, tutorials, and resources on PE teaching methods, personality development, and sports medicine to support ongoing learning and skill development.

Semester-IV, 2023-2024, Program Name:- BPES-2yr

Summary:

a. **Experiential Learning:** Focuses on workshops that enhance leadership skills and social welfare through practical training in sports techniques and hands-on nutrition workshops.
b. **Participative Learning:** Engages students in discussions about social issues and gender inclusion, promoting community engagement through collaborative projects.
c. **Problem-Solving Methodologies:** Involves analyzing community problems, real-life training issues, and gender inequality in sports to develop actionable solutions.
d. **Other Methods:** Includes service-learning projects, guest lectures from professionals, and workshops on gender sensitivity and awareness.
e. **ICT-Enabled Tools:** Utilizes social media for advocacy, training software for performance analysis, and nutritional analysis software to enhance learning.
f. **Online Resources:** Provides access to courses, journals, and resources on leadership, nutrition, and gender studies, supporting ongoing education and awareness.

Semester-VI, 2023-2024, Program Name:- BPES-3yr

Summary:

a. **Experiential Learning:** Emphasizes conducting research projects in physical education, focusing on hands-on practices, and practical sessions that analyze movement patterns.
b. **Participative Learning:** Involves group discussions on research findings, collaborative projects to develop movement education programs, and simulations of job interviews.
c. **Problem-Solving Methodologies:** Encourages analysis of real-world case studies using statistical tools and exercises addressing professional challenges in the field.
d. **Other Methods:** Includes peer reviews of research proposals, workshops on sports journalism, and networking events with professionals.

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e. **ICT-Enabled Tools:** Utilizes statistical software (e.g., SPSS, R) for data analysis, journalism software for editing articles, and movement analysis software for performance feedback.
f. **Online Resources:** Provides access to online journals for research methodologies, resources for sports journalism techniques, and career development in physical education.

Semester-II, 2023-2024, Program Name:- BPED-1yr

Summary:

a. **Experiential Learning:** Focuses on hands-on yoga practice, practical workshops on technology in physical education, simulations of administrative tasks, and research projects on current trends in fitness and wellness.
b. **Participative Learning:** Involves group discussions on yoga philosophy, collaborative lesson planning with technology, group projects for creating organizational plans, and discussions on contemporary issues in physical education.
c. **Problem-Solving Methodologies:** Encourages analyzing case studies on yoga benefits, developing lesson plans for teaching challenges, examining successful physical education programs, and solving real-world problems related to fitness and wellness.
d. **Other Methods:** Includes field trips to yoga studios, observations of technology integration in classrooms, guest lectures from physical education administrators, and workshops on emerging trends in fitness.
e. **ICT-Enabled Tools:** Utilizes yoga apps for practice tracking, educational technology tools like Google Classroom and Edmodo, management software for program planning, and online platforms for fitness tracking.
f. **Online Resources:** Provides access to online resources on yoga techniques, courses on educational technology, administration resources in physical education, and articles on contemporary issues in the field.

Semester-IV, 2023-2024, Program Name:- BPED-2yr

Summary:

a. **Experiential Learning:** Focuses on hands-on workshops for measurement techniques, practical applications of biomechanical principles, conducting research projects on relevant topics, and analyzing case studies in sports management practices.
b. **Participative Learning:** Involves group discussions on evaluation strategies, collaborative data analysis among students, and discussions on effective management strategies in sports, fostering teamwork and shared insights.
c. **Problem-Solving Methodologies:** Encourages analyzing assessment data for program improvement, solving biomechanics problems through real-life case studies, developing research proposals for current issues, and creating management plans for hypothetical sports organizations.

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d. **Other Methods:** Utilizes peer assessments and feedback sessions, observational studies of athletic performance, workshops on research methodologies, and guest lectures from industry professionals to enrich learning experiences.
e. **ICT-Enabled Tools:** Incorporates statistical software (e.g., SPSS, Excel) for data analysis, motion analysis software for biomechanics assessment, research management software (e.g., EndNote, Zotero), and management software for sports organizations (e.g., SportsEngine).
f. **Online Resources:** Provides access to online resources for measurement techniques, kinesiology research journals, online databases for research articles and statistics, and resources on effective sports management practices.

Semester-II, 2023-2024, Program Name:- PGDY-1yr

Summary:

a. **Experiential Learning:** Emphasizes group discussions on key teachings of the Upanishads and the Bhagavad Gita, practical sessions on the Ashtanga (Eight Limbs) of yoga, workshops applying yoga in various settings (like health and stress relief), and role-playing scenarios to enhance teaching effectiveness.
b. **Participative Learning:** Involves interactive sessions interpreting verses from sacred texts, sharing experiences of yoga practice, collaborating to create yoga sequences for diverse populations, and developing lesson plans for teaching yoga.
c. **Problem-Solving Methodologies:** Encourages analysis of philosophical concepts relevant to modern contexts, developing personalized yoga practices based on Patanjali's principles, case studies on the effectiveness of yoga for specific health conditions, and solving teaching dilemmas through peer discussions.
d. **Other Methods:** Includes creative projects that reflect teachings from the Upanishads and the Gita, workshops on integrating yoga philosophy into daily life, feedback sessions to refine yoga practices, and demonstrations of effective teaching techniques.
e. **ICT-Enabled Tools:** Utilizes educational apps for yoga practice and philosophy, online yoga platforms for guided sessions, virtual reality yoga experiences, and online teaching platforms for instruction.
f. **Online Resources:** Provides access to online resources related to the Upanishads and Bhagavad Gita, texts of Patanjali's Yoga Sutras, and online courses focused on teaching methods in yoga.

Semester-II, 2023-2024, Program Name:- MPES-1yr

Summary:

a. **Experiential Learning**: Students engage in research projects, statistical methods, exercise assessments, internships, and writing assignments, providing hands-on experiences that reinforce theoretical concepts.

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b. **Participative Learning**: Collaborative group discussions foster critical thinking around research findings, statistical applications, physiological responses, management strategies, and ethical considerations in sports journalism.
c. **Problem-Solving Methodologies**: Students analyze real-world case studies to develop solutions for statistical problems, exercise programming, and management challenges in sports organizations.
d. **Additional Methods**: Peer reviews and workshops enhance the learning process, promoting interactive feedback and knowledge sharing.
e. **ICT Tools**: The use of statistical software (e.g., SPSS, Excel), performance analysis tools, and management software supports data-driven decision-making and project management.
f. **Online Resources**: Students have access to a variety of online journals, courses, and resources that provide supplemental information on research methodologies, statistics, exercise physiology, sports management, and journalism.

Semester-IV, 2023-2024, Program Name:- MPES-2yr

Summary:

a. **Experiential Learning**: Students engage in hands-on training with educational software, practical sessions for injury diagnosis and treatment, research methodology workshops, community service projects focusing on environmental sustainability, and practical sessions on yogic practices. These activities provide real-world experiences that enhance learning.
b. **Participative Learning**: Group projects and discussions encourage collaboration among students. They work together on developing ICT resources, analyzing case studies of sports injuries, collaborating on research proposals, discussing ethical issues in physical education, and sharing insights on applying yogic principles in daily life.
c. **Problem-Solving Methodologies**: Students tackle practical problems through scenarios in sports medicine, peer reviews of research drafts, and activities addressing environmental challenges in sports. These methodologies cultivate critical thinking and analytical skills.
d. **Additional Methods**: Workshops provide further opportunities for skills development, including best practices for integrating ICT in teaching, values education, and yoga integration into wellness programs.
e. **ICT Tools**: The curriculum utilizes various educational technologies, such as learning management systems, medical software for injury tracking, and apps for yoga practice, enhancing the educational experience.
f. **Online Resources**: Students have access to a wide array of online resources, including databases for research methodologies, courses on sports medicine, environmental education, and yogic sciences, which support and enrich their learning journey.

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Course Name & Course Code	Experiential Learning	Participative Learning	Problem Solving Methodolies	Anyother Methods	ICT enabled Tools	Any Other Online Resources
SEMESTER-1, 2023-2024, PROGRAM NAME: [illegible]						
History Principles and Foundation of Physical Education (PHE101)	Engaging students in workshops led by experts in physical education and sports history.	Facilitating discussions on the evolution of physical education practices and principles.	Analyzing historical cases in physical education and discussing their impact and relevance today.	Providing lecture materials online for students to study at home and using class time for interactive activities and discussions.	Virtual tours of historical sports venues and simulations of historical events in physical education.	Attending webinars hosted by experts in the field.
Child Psychology and Sociology (PHE103)	Visits to child development centers, schools, and community centers to observe child behavior and social interactions.	Facilitating discussions on various topics in child psychology and sociology, such as developmental stages, family dynamics, and social	Analyzing real-life case studies of children with different psychological and sociological backgrounds.	Providing lecture materials online for students to study at home and using class time for interactive activities and discussions.	Virtual simulations of developmental milestones and social interactions to provide practical insights.	Attending webinars hosted by experts in the field of child development and social sciences.
Anatomy and Physiology (PHE110)	Hands-on experience with animal or cadaver dissections to understand the anatomical structures.	Facilitating discussions on complex topics such as the cardiovascular system, neural pathways, or homeostasis.	Analyzing clinical case studies to understand the physiological basis of diseases and conditions.	Providing lecture materials online for students to study at home and using class time for interactive activities and discussions.	Tools like Visible Body or Complete Anatomy for interactive 3D models of the human body.	Attending webinars hosted by experts in anatomy and physiology.
English Language (ENGL101)	Engage students in environments where only English is spoken.	Regularly organize group discussions on various topics.	Analyze case studies relevant to English literature, linguistics, or real-world communication issues.	Focus on tasks that involve real-world language use.	Use apps like Duolingo, Babbel, or Rosetta Stone.	Access to libraries like JSTOR, Project MUSE, or Google Scholar.
SEMESTER-II 2023-2024, PROGRAM NAME: [illegible]						
History, Principles and Foundation of Physical Education (PES416)	Field trips to historical sports sites or participating in physical challenges that reflect historical practices.	Debates on the evolution of sports rules or the impact of historical figures on Physical Education.	Analyzing historical controversies in sports or Physical Education policies.	Accessing digital archives of historical documents related to sports and Physical Education.	Offers virtual tours of museums and historical sports sites.	Attending webinars and online workshops hosted by sports professionals and organizations.
Anatomy and Physiology (PES417)	Hands-on experience with animal or cadaver dissections to understand the anatomical structures.	Facilitating discussions on complex topics such as the cardiovascular system, neural pathways, or homeostasis.	Analyzing clinical case studies to understand the physiological basis of diseases and conditions.	Providing lecture materials online for students to study at home and using class time for interactive activities and discussions.	Tools like Visible Body or Complete Anatomy for interactive 3D models of the human body.	Attending webinars hosted by experts in anatomy and physiology.
Health Education and Environmental Studies (PES418)	Visits to health centers, water treatment plants, recycling facilities, and natural reserves to observe environmental processes	Facilitating discussions on topics such as public health policies, environmental issues, and sustainable practices.	Analyzing real-life cases of health outbreaks or environmental challenges and discussing their causes, impacts, and solutions.	Providing lecture materials online for students to study at home and using class time for interactive activities and discussions.	Virtual simulations of environmental processes or health interventions to provide practical insights.	Attending webinars hosted by experts in health and environmental sciences.
Officiating and Coaching (PES419)	Participating in or observing live sports events to practice officiating and coaching skills in real-time.	acilitating discussions on rules, ethics, and strategies related to officiating and coaching.	Analyzing case studies of controversial officiating decisions or coaching challenges and discussing potential solutions.	Providing lecture materials and game footage online for students to study at home, and using class time for practical activities and discussions.	Tools like Hudl or Dartfish for analyzing game footage to improve coaching techniques and officiating decisions.	Attending webinars and online workshops hosted by sports professionals and organizations.
[illegible]						
Scientific Principles of Sports Training (PHE401)	Conduct hands-on training sessions where students can apply scientific principles to real-life sports scenarios.	Assign projects that require students to work in teams to analyze case studies or develop training programs.	Use case studies of athletes and sports teams to analyze problems and develop solutions based on scientific principles.	Utilize virtual lab simulations to demonstrate sports training techniques and physiological responses.	Utilize virtual lab simulations to demonstrate sports training techniques and physiological responses.	Recommend webinars and online courses related to sports science and training from platforms like Coursera, edX, and Khan
Health Education and Nutrition (PHE402)	Visits to health centers, water treatment plants, recycling facilities, and natural reserves to observe environmental processes	Facilitating discussions on topics such as public health policies, environmental issues, and sustainable practices.	Analyzing real-life cases of health outbreaks or environmental challenges and discussing their causes, impacts, and solutions.	Providing lecture materials online for students to study at home and using class time for interactive activities and discussions.	Virtual simulations of environmental processes or health interventions to provide practical insights.	Attending webinars hosted by experts in health and environmental sciences.
Professional Preparation in Physical Education & Sports (PHE403)	Gaining hands-on experience in schools, sports clubs, or fitness centers	Facilitating discussions on current trends and issues in physical education and sports.	Analyzing real-life cases of sports management issues, coaching dilemmas, or injury incidents.	Providing lecture materials online for students to study at home, and using class time for practical activities and discussions.	Platforms like Moodle or Blackboard for organizing course materials, discussions, and assessments.	Attending webinars hosted by sports professionals and organizations.
Test, Measurement and Evaluation in Physical Education (PHE404)	Conducting actual physical fitness tests and measurements with students to provide hands-on experience.	Facilitating discussions on different methods of assessment and their applications in physical education.	Analyzing real-life cases of testing and evaluation scenarios in physical education.	Providing lecture materials online for students to study at home, and using class time for practical activities and discussions.	Tools like SPSS or Excel for analyzing test data and interpreting results	Attending webinars hosted by experts in the field of physical education assessment.

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Foundation of Yoga (YOGA112)	Conduct regular yoga practice sessions where students can experience different asanas, pranayama, and meditation	Facilitate discussions on yoga philosophy, ethics, and practices to encourage sharing of insights and experiences.	Present case studies related to health issues and discuss how yoga can be applied as a solution.	Recommend participation in webinars and courses from institutions like the Yoga Alliance or the International Association of Yoga Therapists.	Use platforms like Google Classroom, Moodle, or Blackboard for course management and resource sharing.	Recommend participation in webinars and courses from institutions like the Yoga Alliance or the International Association of
Hatha Yoga (YOGA113)	Regular practice sessions where students perform and perfect various Hatha Yoga asanas.	Collaborative practice sessions to enhance group dynamics and peer learning.	Analysis of real-life cases where Hatha Yoga has been used to address health issues.	Integrating Hatha Yoga with nutrition, Ayurvedic practices, and lifestyle changes.	Integrating Hatha Yoga with nutrition, Ayurvedic practices, and lifestyle changes.	Access to digital libraries with books and academic journals on Hatha Yoga.
Patanjali Yoga Sutra (YOGA 119)	Students engage in daily meditation sessions to experience the principles of concentration and mindfulness described in the Yoga	Regular group discussions on specific Sutras to encourage sharing of interpretations and insights.	Analyze case studies of individuals who have successfully integrated the principles of the Yoga Sutras into their lives.	se stories and parables from yogic traditions to illustrate the teachings of the Sutras.	Use platforms like Moodle or Blackboard for course management, discussion forums, and resource sharing.	Provide access to online libraries and repositories of texts and commentaries on the Yoga Sutras.
Methods of Teaching Yoga (YOGA120)	Students practice yoga poses, breathing techniques, and meditation under the guidance of the instructor.	Engage in discussions about yoga philosophy, teaching methods, and personal experiences.	Students are presented with teaching challenges and must devise solutions and strategies.	Inviting experienced yoga instructors and experts to share their insights and experiences.	Use platforms like Moodle, Canvas, or Google Classroom for sharing resources, assignments, and feedback.	Participate in webinars and online workshops hosted by yoga professionals and organizations.
SEMESTER-2, 2023-2024, PROGRAM NAME:- BPES-107						
Methods of Physical Education (PHE109)	Organize visits to various sports facilities, gyms, and wellness centers to observe different physical education methods in	Encourage students to work in groups to design physical education lesson plans and activities.	se case studies to analyze and solve real-world issues in physical education.	Combine lectures with demonstrations to illustrate various physical education techniques.	Use platforms like Moodle, Blackboard, or Google Classroom for course management and content delivery.	Combine online digital media with traditional classroom methods
Personality Development (PHE313)	Engaging in scenarios that mimic real-life situations to practice communication, leadership, and conflict resolution skills.	Facilitating discussions on various aspects of personality, including traits, behaviors, and development strategies.	Analyzing real-life scenarios or biographies of individuals to understand personality development processes and outcomes.	Providing lecture materials online for students to study at home. and using class time for interactive activities and discussions.	Online tools like the Myers-Briggs Type Indicator (MBTI) or Big Five Personality Test for self-assessment.	Courses on platforms like Coursera or edX that cover personality development topics.
Fundamentals Computers and IT (PHE111)	Conducting practical sessions where students can build, configure, and troubleshoot computer systems.	Facilitating discussions on emerging technologies, cybersecurity, and ethical issues in IT.	Analyzing real-world IT scenarios to understand the application of theoretical concepts.	Providing lecture materials online for students to study at home, and using class time for interactive activities and discussions.	Courses on platforms like Coursera, edX, or Udacity covering various topics in computer science and IT.	Attending webinars hosted by tech companies or educational institutions on current trends in IT.
Sports Injuries and Rehabilitation (PHE113)	Simulated class room presentations, Online activities to enrich learning outcomes	Active engagement, Group Activity	Case study, Simulated Challenges	Micro teaching	Quizee, Kahoot	
SEMESTER-2, 2023-2024, PROGRAM NAME:- BPED-107						
Yoga Education (PHE211)	Conduct regular hands-on yoga practice sessions, where students actively participate in asanas, pranayama, and meditation	Facilitate group discussions on various yoga philosophies, techniques, and their benefits to encourage collaborative learning.	Present students with real-life scenarios related to yoga practice and ask them to develop solutions based on yogic principles.	Invite experienced yoga practitioners, therapists, and researchers to share their insights and experiences.	Utilize platforms like Moodle, Canvas, or Google Classroom for course materials, assignments, and discussions.	Curate a list of reputable YouTube channels that offer high-quality yoga instruction and informational content.
Education Technology and Methods of Teaching in Physical Education (PES412)	Simulated class room presentations, Online activities to enrich learning outcomes	Active engagement, Group study	Case study, Simulated Challenges	Micro teaching	Quizee, Kahoot	
Organization and Administration in Physical Education (PES413)	Working in schools or sports organizations to observe and participate in administrative processes.	Collaborating on designing a curriculum or organizing a sports event, understanding roles and responsibilities.	Simulating negotiations between different stakeholders (teachers, administrators, parents) regarding sports program funding.	Using platforms for scheduling sports activities, managing facilities, or tracking student participation.	Engaging with peers and professionals in Physical Education through conferences or online forums.	Offers guidelines and research on organizational practices.
Contemporary Issues in Physical Education, Fitness and Wellness (EC201)	Engaging in community fitness programs or wellness initiatives to understand local health challenges and interventions.	Facilitating discussions on topics like obesity, mental health, and the role of technology in fitness.	Analyzing real-life cases of public health issues or wellness program implementations.	Providing lecture materials and articles online for students to study at home, and using class time for interactive activities and discussions.	Using apps like MyFitnessPal or Fitbit for tracking physical activity and nutrition.	Courses on platforms like Coursera or edX covering topics in contemporary health, fitness, and wellness.
SEMESTER-2, 2023-2024, PROGRAM NAME:- BPES-107						

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Research Methodology in Physical Education (PHE411)	Students can engage in field studies where they observe and collect data on physical activities, sports events, or health and fitness	Assigning group research projects where students can collaborate on designing, conducting, and analyzing studies.	Analyzing real-world cases related to physical education research to identify problems and propose solutions.	Providing students with materials to study at home and using class time for practical exercises and discussions.	Platforms like Moodle or Blackboard for sharing resources, assignments, and assessments.	Platforms like Coursera, edX, and Khan Academy offer courses on research methodology and related topics.
Applied Statistics in Physical Education and Sports (PHE412)	Students can collect real data from sports events or training sessions to analyze and interpret.	Organize discussions on statistical methods and their applications in sports, encouraging students to share insights and experiences	Present real-life cases from sports statistics for students to analyze and solve.	Provide lecture materials and resources online for students to review before class, then use class time for hands-on activities and	Introduce tools like SPSS, R, or Excel for data analysis.	Recommend courses from platforms like Coursera, edX, or Khan Academy that cover statistics and its application in
Exercise Physiology (PHE413)	Hands-on experiments to measure physiological responses to exercise (e.g., heart rate, VO2 max, lactate threshold).	Facilitate discussions on topics like muscle physiology, cardiovascular adaptations, and energy systems.	Present students with complex, real-world problems related to exercise physiology and guide them in researching and proposing solutions.	Platforms like Moodle or Blackboard to share resources, quizzes, and assignments.	Free textbooks and materials available online (e.g., MERLOT, OER Commons).	Students review lecture materials at home and engage in interactive, practical activities in class.
Sports Management (PHE302)	Working with sports teams, leagues, or agencies to gain hands-on experience in various aspects of management.	Collaborating on marketing campaigns, event planning, or sponsorship proposals for sports teams or events.	Simulating scenarios where tough decisions regarding team management or event logistics need to be made.	Utilizing platforms for scheduling, ticketing, athlete management, and performance analysis.	Engaging with peers and experts in sports management through conferences, webinars, and online forums.	Provides news, analysis, and insights into the business side of sports.
Sports Journalism and Mass Media (PHE414)	Conducting on-site reporting at sports events to gain hands-on experience in covering live sports.	Facilitating discussions on current trends in sports journalism, media ethics, and the impact of digital media on sports reporting.	Analyzing past sports journalism scenarios to understand decision-making processes and outcomes.	Provide lecture materials and resources online for students to review before class, then use class time for hands-on activities and discussion.	Platforms like WordPress or Joomla for managing and publishing sports content.	Encourage students to follow relevant blogs, journals, and industry publications such as the "Journalism Studies" or "Sports Media Journal" for current
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Essence of Principle Upanishads and Bhagavad Gita (YOGA108)	Guided meditation sessions to experience concepts such as 'Atman' and 'Brahman	Facilitated discussions on key themes like Dharma, Karma, and Yoga	Discussing and resolving ethical dilemmas using guidance from the Bhagavad Gita.	Narrating stories and parables from the Upanishads and Bhagavad Gita to illustrate key teachings.	Interactive presentations and videos that explain complex concepts.	Enrolling in Massive Open Online Courses related to Hindu philosophy and scriptures.
Yogic lifestyle (YOGA115)	Engage students in direct experience and focused reflection to increase knowledge, develop skills, and clarify values.	Facilitate discussions on various yogic philosophies and their relevance to modern life.	Analyze real-life scenarios where yoga was used to address specific health issues or lifestyle challenges.	Combine traditional classroom instruction with online learning modules.	Use platforms like Zoom or Google Classroom for virtual yoga sessions and discussions.	Provide access to digital libraries with resources on yoga and related fields.
Applied Yoga (CT203)	Regular, guided yoga sessions where students practice various asanas, pranayama, and meditation techniques.	Engage students in discussions on yoga philosophy, history, and current trends. Debates on topics such as the	Regular, guided yoga sessions where students practice various asanas, pranayama, and meditation techniques.	Invite yoga experts, therapists, and researchers to speak on various aspects of yoga.	Use platforms like Moodle, Blackboard, or Canvas to share resources, assignments, and assessments	Access to journals like the International Journal of Yoga, Journal of Yoga & Physical Therapy for research and study.
Human Anatomy and Physiology (YOGA114)	Conduct dissections (virtual or actual) and use models to study anatomical structures.	Organize regular discussion sessions where students can share insights and ask questions about anatomical and physiological	Use clinical case studies to help students apply theoretical knowledge to real-world scenarios.	Invite medical professionals to give talks on various aspects of human anatomy and physiology.	Utilize apps like Complete Anatomy or Essential Anatomy for interactive learning.	Use educational channels like CrashCourse, Khan Academy, or AnatomyZone for visual and engaging explanations.

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SEMESTER-I, 2023-2024, PROGRAM NAME:- BPO 1yr

S.NO	Course Name &	FACULTY NAME	Experiential	Participative	Problem-Solving	Any Other	ICT enabled	Any Other
1	History Principles and	Mr. Pintu Debnath [PD]	Engaging	Facilitating	Analyzing historical	Providing lecture	Virtual tours	Attending
2	Child Psychology and	Mrs. Ranjana Sinha [RS]	Visits to child	Facilitating	Analyzing real-life	Providing lecture	simulations of	Attending
3	Anatomy and Physiology	Mr. Tapasjit Rajkumar [TRK]	Hands-on	Facilitating	Analyzing clinical	Providing lecture	Tools like	Attending
4	English Language	Mrs. C. Arundhathi Bai [AB]	Engage students in	Regularly organize	Analyze case	Focus on tasks that	Use apps like	Access to

SEMESTER-I, 2023-2024, PROGRAM NAME:- BPED-1yr

S.NO	Course Name &	FACULTY NAME	Experiential	Participative	Problem-Solving	Any Other	ICT enabled	Any Other
1	History, Principles and	Ms. Suparna Debbarma [SD]	Field trips to	Debates on the	Analyzing historical	Accessing digital	Offers virtual	Attending
2	Anatomy and Physiology	Mr. Tapasjit Rajkumar [TRK]	Hands-on	Facilitating	Analyzing clinical	Providing lecture	Tools like	Attending
3	Health Education and	Mr. Pintu Debnath [PD]	Visits to health	Facilitating	Analyzing real-life	Providing lecture	Virtual	Attending
4	Officiating and Coaching	Mr. Bapan Debnath [BD]	Participating in or	acilitating discussions	Analyzing case	Providing lecture	Tools like	Attending

SEMESTER-I, 2023-2024, PROGRAM NAME:- MPES-1yr

S.NO	Course Name &	FACULTY NAME	Experiential	Participative	Problem-Solving	Any Other	ICT enabled	Any Other
1	Scientific Principles of Sports Training (PHE401)	Dr. Laishram Shila Devi [LSD]	Conduct hands-on training sessions where students can apply scientific principles to real-life sports scenarios.	Assign projects that require students to work in teams to analyze case studies or develop training programs.	Use case studies of athletes and sports teams to analyze problems and develop solutions based on scientific principles.	Utilize virtual lab simulations to demonstrate sports training techniques and physiological responses.	Utilize virtual lab simulations to demonstrate sports training techniques and physiological responses.	Recommend webinars and online courses related to sports science and training from platforms like Coursera, edX, and Khan
2	Health Education and	Dr. Surjya Kanta Paul [SKP]	Visits to health	Facilitating	Analyzing real-life	Providing lecture	Virtual	Attending
3	Professional Preparation in	Dr. Mithun Ch. Roy [MCR]	Gaining hands-on	Facilitating	Analyzing real-life	Providing lecture	Platforms like	Attending
4	Test, Measurement and	Dr. Amit Dhar [AD]	Conducting	Facilitating	Analyzing real-life	Providing lecture	Tools like	Attending

SEMESTER-I, 2023-24, PROGRAM NAME:- BODY-1yr

S.NO	Course Name &	FACULTY NAME	Experiential	Participative	Problem-Solving	Any Other	ICT enabled	Any Other
1	Foundation of Yoga (YOGA112)	Mr. Saptarshi Paul	Conduct regular yoga practice sessions where students can experience different asanas, pranayama, and meditation techniques.	Facilitate discussions on yoga philosophy, ethics, and practices to encourage sharing of insights and experiences.	Present case studies related to health issues and discuss how yoga can be applied as a solution.	Recommend participation in webinars and courses from institutions like the Yoga Alliance or the International Association of Yoga Therapists.	Use platforms like Google Classroom, Moodle, or Blackboard for course management and resource sharing.	Recommend participation in webinars and courses from institutions like the Yoga Alliance or the International Association of
2	Hatha Yoga (YOGA113)	Mrs. Ranjana Sinha [RS]	Regular practice	Collaborative practice	Analysis of real-life	Integrating Hatha	Integrating	Access to digital
3	Patanjali Yoga Sutra	Mr. Prasenjit Majumder [PM]	Students engage in	Regular group	Analyze case	se stories and	Use platforms	Provide access
4	Methods of Teaching Yoga	Mr. Prasenjit Majumder [PM]	Students practice	Engage in	Students are	Inviting experienced	Use platforms	Participate in

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SEMESTER-2| 2023-2024, PROGRAM NAME:- BPES 1yr								
S.NO	**Course Name &**	**FACULTY NAME**	**Experiential**	**Participative**	**Problem-Solving**	**Any Other**	**ICT enabled**	**Any Other**
1	Methods of Physical	Mr. Prasenjit Majumder [PM]	Organize visits to	Encourage students to	se case studies to	Combine lectures	Use platforms	Combine online
2	Personality Development	Mr. Bapan Debnath [BD]	Engaging in	Facilitating	Analyzing real-life	Providing lecture	Online tools	Courses on
3	Fundamentals Computers and	Mr Binit Roy [BR]	Conducting	Facilitating	Analyzing real-	Providing lecture	Courses on	Attending
4	Sports Injuries and	Mr. Laxmindar Debnath [LD]	Simulated class	Active engagement,	Case study,	Micro teaching	Quizee,	
SEMESTER-2| 2023-2024, PROGRAM NAME:- BPED 1yr								
S.NO	**Course Name &**	**FACULTY NAME**	**Experiential**	**Participative**	**Problem-Solving**	**Any Other**	**ICT enabled**	**Any Other**
1	Yoga Education (PHE211)	Mr. Prasenjit Majumder [PM]	Conduct regular	Facilitate group	Present students	Invite experienced	Utilize	Curate a list of
2	Education Technology and	Dr. Subhashis Biswas [SB]	Simulated class	Active engagement,	Case study,	Micro teaching	Quizee,	
3	Organization and	Mr. Tapasjit RajKumar [TRK]	Working in	Collaborating on	Simulating	Using platforms for	Engaging with	Offers
4	Contemporary issues in	Dr. Satish Kumar [SK]	Engaging in	Facilitating	Analyzing real-life	Providing lecture	Using apps	Courses on
SEMESTER-2| 2023-2024, PROGRAM NAME:- MPES 1yr								
S.NO	**Course Name &**	**FACULTY NAME**	**Experiential**	**Participative**	**Problem-Solving**	**Any Other**	**ICT enabled**	**Any Other**
1	Research Methodology in	Dr Laishram Shila Devi [LSD]	Students can	Assigning group	Analyzing real-	Providing students	Platforms like	Platforms like
2	Applied Statistics in Physical Education and Sports (PHE412)	Dr. Surjya Kanta Paul [SKP]	Students can collect real data from sports events or training sessions to analyze and interpret.	Organize discussions on statistical methods and their applications in sports, encouraging students to share insights and experiences	Present real-life cases from sports statistics for students to analyze and solve.	Provide lecture materials and resources online for students to review before class, then use class time for hands-on activities and discussion.	Introduce tools like SPSS, R, or Excel for data analysis.	Recommend courses from platforms like Coursera, edX, or Khan Academy that cover statistics and its application in sports
3	Exercise Physiology	Dr. Amit Dhar [AD]	Hands-on	Facilitate discussions	Present students	Platforms like	Free textbooks	Students review
4	Sports Management	Mr. Tapasjit Rajkumar[TRK]	Working with	Collaborating on	Simulating	Utilizing platforms	Engaging with	Provides news,
	Sports Journalism and	Mr. Tapasjit Rajkumar[TRK]	Conducting on-	Facilitating	Analyzing past	Provide lecture	Platforms like	Encourage
SEMESTER-2| 2023-2024, PROGRAM NAME:- [illegible]								
S.NO	**Course Name &**	**FACULTY NAME**	**Experiential**	**Participative**	**Problem-Solving**	**Any Other**	**ICT enabled**	**Any Other**
1	Essence of Principle	Mrs. Ranjana Sinha (RS)/ Mr. Dilip	Guided meditation	Facilitated	Discussing and	Narrating stories and	Interactive	Enrolling in

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2	Yogic lifestyle (YOGA115)	Mr. Prasenjit Majumder [PM]	Engage students in direct experience and focused reflection to increase knowledge, develop skills, and clarify values.	Facilitate discussions on various yogic philosophies and their relevance to modern life.	Analyze real-life scenarios where yoga was used to address specific health issues or lifestyle challenges.	Combine traditional classroom instruction with online learning modules.	Use platforms like Zoom or Google Classroom for virtual yoga sessions and discussions.	Provide access to digital libraries with resources on yoga and related fields.
3	Applied Yoga (CT203)	Mrs. Ranjana Sinha (RS)	Regular, guided	Engage students in	Regular, guided	Invite yoga experts,	Use platforms	Access to
4	Human Anatomy and Physiology (YOGA114)	Mr Saptarshi Paul [SP]	Conduct dissections (virtual or actual) and use models to study anatomical structures.	Organize regular discussion sessions where students can share insights and ask questions about anatomical and physiological topics.	Use clinical case studies to help students apply theoretical knowledge to real-world scenarios.	Invite medical professionals to give talks on various aspects of human anatomy and physiology.	Utilize apps like Complete Anatomy or Essential Anatomy for interactive learning.	Use educational channels like CrashCourse, Khan Academy, or AnatomyZone for visual and engaging explanations.

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Website : www.iutripura.edu.in, Email : registrar@iutripura.edu.in

Date: 02/09/2024

Department of Special Education & Rehabilitation
Qualitative Write up
2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences

The university places a strong emphasis on experiential and interactive teaching methods to involve students in their learning process.

Experiential Learning:

- A variety of techniques, including community services, case studies, lab time, internships, creating IEPs, teaching practice, and TLM, as well as other practical special education methods.
- ICT facilities are provided in classrooms to support interactive teaching and learning, such as the use of smart boards.
- Teaching methods are designed to promote Practical Academia based on Special Education Solutions.

Participative Learning:

- Highlights active participation and teamwork, which is important in special education settings where social interaction and peer support are frequently beneficial for future teachers.
- Teacher-led group activities Regardless of personal obstacles, trainee students collaborate to achieve a common goal and promote communication, teamwork, and idea sharing.
- Educating learners using traditional teaching methods, faculty members encourage students to learn through self-learning and practical experience.

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Problem-Solving:

- Approaches are modified to meet the particular difficulties that special education students who are aspiring educators encounter. These approaches frequently entail methodical, structured procedures that lead students through assignments involving problem-solving.
- Multidisciplinary approaches are used to present problems in order to promote holistic learning.
- Students from a variety of backgrounds create a rich learning environment where thoughts and opinions are freely shared.
- Students are trained to create teaching materials, adapt existing teaching materials, and propose alternate solutions in practical learning methods such as teaching practice and lab time to handle special children.

2.3.2 - Teachers use ICT enabled tools including online resources for effective teaching and learning processes during the year

Introduction to ICT-enabled Teaching:

For effective instructional and educational processes, teachers use ICT tools and online resources such as Moodle, ERP systems, and digital platforms like Google Classroom, Zoom, and Meet. Some of the more conventional methods are also included, such as document sharing via Gmail and WhatsApp/Telgram.

Utilization of ICT in Teaching and Learning:

To enhance interactive teaching methods, ICT tools are installed in classrooms, such as a smart classroom with an internet connection.

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Department of Special Education & Rehabilitation

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Course Name & Course Code	Experiential Learning	Participative Learning	Problem Solving Methodolies	Anyother Methods	ICT enabled Tools	Any Other Online Resources
Human Growth and Development / EDUA1	Life Skills, Preparation of skills	Project			Presentations using Smart board	
Contemporary India and Education/ EDUA2	Class Test	Lesson Plan	Assignment		Use of Smart board	
Introduction to Sensory Disabilities (VI, HI, Deaf-Blind)/ ELCB7	Assessment Of Students With Low Vision	Project, checklist for screening	Assignment	Presentations	Use of Smart board to give better concept for disabilities	
Introduction To Neuro Developmental Disabilities/ Elcb8	Tools and Areas of Assessment	Assessment Tool for a child with learning disability	Develop an Assessment Tool	Presentations	Use of Smart board to give better concept for disabilities	
Introduction to Loco motor & Multiple Disabilities/ ELCB9	Case Study and identifying a child with cerebral palsy	Project	Assignment	Presentations	Use of Smart board to give better concept for disabilities	
Assessment and Identification of Needs/ ELCC12	Approaches Of Assessment	Project	Development And Adaptive Behavioural Assessment check list.	Presentations	Use of Smart board to give better concept for disabilities	
Learning, Teaching & Assessment/ Elca3	Analyze the learning process	Project	Assignment		Use of Smart board	
Pedagogy Of Teaching Social Studies/ ELCA4	Science In Daily Life And Its Relevance To Modern Society	Planning Science Lessons	Presentation	Lesson Plans Tailored For Social Science Teaching	Use of Smart board	
Inclusive Education/ EDUB6	Explain the concept of inclusive education and its evolution	Prepare a Checklist	Prepare a Lesson Plan		Presentations using Smart board	
Curriculum Designing, Adaptation and Evaluation/ ELCC13	Curriculum Designing	ADL Skills	Assignment	Evaluation and make effective use of different techniques.	Presentations using Smart board	
Educational Intervention and Teaching Strategies/ ELCC14	Understanding, Planning, And Appropriately Using Interventions.	Individualized Education Programs (IEPs)	Assignment		Presentations using Smart board	
Learning, Teaching & Assessment/ Elca3	Analyze the learning process	Project	Assignment		Use of Smart board	
Human Growth and Development / EDUA1	Life Skills, Preparation of skills	Project			Presentations using Smart board	
Contemporary India and Education/ EDUA2	Class Test	Lesson Plan	Assignment		Use of Smart board	
Introduction to Sensory Disabilities (VI, HI, Deaf-Blind)/ ELCB7	Assessment Of Students With Low Vision	Project, checklist for screening	Assignment	Presentations	Use of Smart board to give better concept for disabilities	
Introduction To Neuro Developmental Disabilities/ Elcb8	Tools and Areas of Assessment	Assessment Tool for a child with learning disability	Develop an Assessment Tool	Presentations	Use of Smart board to give better concept for disabilities	
Introduction to Loco motor & Multiple Disabilities/ ELCB9	Case Study and identifying a child with cerebral palsy	Project	Assignment	Presentations	Use of Smart board to give better concept for disabilities	

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Assessment and Identification of Needs/ ELCC12	Approaches Of Assessment	Project	Development And Adaptive Behavioural Assessment check list.	Presentations	Use of Smart board to give better concept for disabilities	
Learning, Teaching & Assessment/ Elca3	Analyze the learning process	Project	Assignment		Use of Smart board	
Pedagogy Of Teaching Social Studies/ ELCA4	Science In Daily Life And Its Relevance To Modern Society	Planning Science Lessons	Presentation	Lesson Plans Tailored For Social Science Teaching	Use of Smart board	
Inclusive Education/ EDUB6	Explain the concept of inclusive education and its evolution	Prepare a Checklist	Prepare a Lesson Plan		Presentations using Smart board	
Curriculum Designing, Adaptation and Evaluation/ ELCC13	Curriculum Designing	ADL Skills	Assignment	Evaluation and make effective use of different techniques.	Presentations using Smart board	
Educational Intervention and Teaching Strategies/ ELCC14	Understanding, Planning, And Appropriately Using Interventions.	Individualized Education Programs (IEPs)	Assignment		Presentations using Smart board	
Learning, Teaching & Assessment/ Elca3	Analyze the learning process	Project	Assignment		Use of Smart board	
Technology And Disability/ ELCC15	Nature Of Information And Communication Technology (ICT),	Lesson Planning/ Developing Technology Integrated Lessons	Assignment/ project	Apply Technology To Develop Lesson Plans	Presentations using Smart board	
Psychosocial and Family Issues/ ELCC16	Importance And Role Of The Family	Recognize the importance of family involvement in the rehabilitation process	Assignment/ project	Present A Report On Assessment	Presentations using Smart board	
Reading and Reflecting on Texts/ ELCD17	Support Good Reading And Writing Practices	Develop a short journal	Assignment		Presentations using Smart board	
Drama and Art in Education./ ELCD18	Understanding Of Key Concepts In Art Appreciation, Art Expression, And Art Education	Plan and implement facilitating strategies for students with special needs.	Preparation of skills	Presentations	Presentations using Smart board	
International Language French/ ELCA 7	Basic Conversational Exchanges In French Using The Present Tense		Assignment	Introduce Themselves And Share Personal Information In French	Presentations using Smart board	
Technology And Disability/ ELCC15	Nature Of Information And Communication Technology (ICT),	Lesson Planning/ Developing Technology Integrated Lessons	Assignment/ project	Apply Technology To Develop Lesson Plans	Presentations using Smart board	
Basic Research and Statistics/ ELCD19	The Impact Of Research On Educational Practices And Policies	Project	Assignment		Presentations using Smart board	
Guidance & Counselling/ ELCB10	Effective Guidance And Counseling To Address Various Classroom Situations	Counselling and report writing on a selected case	Assignment/ critical observation Report		Presentations using Smart board	
Management of Learning Disability/ ELCB11	Characteristics Of Learning Disabilities	Prepare of checklist for screening LD	Assessment Test In Any One Curricular Area		Presentations using Smart board	
Nature and Needs of Various Disabilities (EDUS108)	Awareness of various disabilities as per the RPWD Act 2016	Identification of Disabilities through screening			PPTs and video used through smart board	
Family, Community and Children with Disabilities (EDUS109)	Creating awareness on psychosocial issues and well-being .Help family members to	Provide counselling through community based rehabilitation			PPTs and video used through smart board	
EDUCATIONAL PSYCHOLOGY AND PERSONS WITH	Provide students with sample psychological tests relevant to assessing disabilities. Students	Organize a debate on a current ethical or legal issue related to disabilities (e.g., inclusive education			PPTs and video used through smart board	

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EDUCATIONAL PSYCHOLOGY AND PERSONS WITH		Students will work individually or in pairs to create p[illegible]rs on different theories of intelligence (e.g.,			PPTs and video used through smart board	
Educational Planning and Management, Curriculum Designing and Research		Organizing individual, peer, small group, large group for teaching learning.			Implement ICT and Multimedia in teaching learning at inclusive schools	
Contemporary India and Education (EDUA2)		Organize a structured debate on a contemporary issue related to educational policies and legislation			PPTs and video used through smart board	
Assessment and Curriculum Planning for Students with Intellectual	Develop the curriculum transition in different schools settings	Uses the various Assessment tools for identification and early intervention	Construct the IEP and IFSP			
LEARNING DISABILITIES: INTRODUCTION AND	Students will practice using various assessment tools to evaluate basic curricular skills	Students will participate in activities designed to enhance their understanding of cognitive				

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Date: 20/08/2024

Faculty of Education
Qualitative Write up
2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences

The Faculty of Education emphasizes experiential and participative learning approaches to engage students in their educational journey:

Experiential Learning

A. **Preschool internship** : B.Ed. students are sent to different types of schools for 4 weeks. These include Kendra Vidyalaya, CBSE Schools, Eklavya Model Residential Schools, Vidyajyoti Schools, and TBSE schools in different districts of Tripura for their internships.

B. **School Intership:** B.Ed students are sent for 16 weeks to the school they choose for practice teaching.

C. **Women Study project**: This project covers topics such as women empowerment, gender bias, the status of women in different decades, women entrepreneurship, and the representation of women in textual materials and print media, etc.

D. **Tribal Culture study project:** Student teachers are required to visit tribal regions, observe and understand the culture and other systems of the tribes, and conduct ethnographic studies. The Tribal Culture Study Project focuses on tribal preservation, tribal folk culture, languages and literature, the status of education and health of tribal women and children, the economic condition of tribal farmers, a comparative study on the education of Tripuri and Reang tribes, the religious faith of tribal people, social customs and modernization among tribal people, and comparative studies on tribes living in hills and plain areas, etc.

E. **Community work project:** The Community Studies Record covers any five of the following: Local Resources, Requirements & Issues, Health-Related Problems, Enrolling School Dropouts, Government Welfare Schemes, Local Festivals, Child

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Right in Community, Cultural Practices Related to Different States and religions, etc.

Participative Learning

A. **Internship (M.Ed):** M.Ed. students were responsible for teaching B.Ed. trainees.
B. **Mentorship:** M.Ed. students acted as mentors for B.Ed. trainees under the guidance of Teacher Mentors.
C. **Active Participation:** B.Ed., M.A. Education, and M.Ed. students are encouraged to participate in activities like presentations, group discussions, debates, quizzes, and teaching assignments.
D. **Collaborative Methods:** The curriculum incorporates constructive and collaborative methods such as brainstorming, peer tutoring, brain-based learning, concept mapping, reciprocal teaching, cognitive apprenticeship, and engaged learning.
E. **Drama and Arts in Education:** B.Ed. students perform drama, and they practice teaching young children using drama methods.
F. **Self-Learning:** Faculty members promote self-learning and practical learning among students, moving away from traditional teaching methods.
G. **Micro Teaching:** Student teachers are divided into small groups of eight. One teacher presents a micro lesson based on a particular skill, five act as students, and three provide feedback. This process continues until the individual trainee acquires the skill.
H. **Macro Lesson:** Student teachers prepare a 35-minute lesson plan incorporating four or five skills and deliver the lesson. Other students observe and provide feedback.

Problem-Solving

A. **Action Research:** Student teachers identify the issues they experienced in teaching-learning situations and conduct action research to find solutions.
B. **Case Study:** The student teacher identifies at least one deviant child from the school where they are doing their internship, conducts a case study, and suggests remedies.
C. **School Management Project:** The student teachers identify issues related to school management, both academic and non-academic, conduct a detailed study on these issues, and suggest solutions.
D. **Language Lab:** Students who have issues with English communication are taken to the university's language lab and provided with proper training by the language experts in the department.

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E. **Field Trips:** Field trips foster active engagement, critical thinking, and practical application of knowledge among students. They prepare students for real-world challenges and equip them to manage and guide their future students.

2.3.2 - Teachers use ICT enabled tools including online resources for effective teaching and learning processes during the year:

A. **IT in Education:** Students visit the computer lab twice a week for practicals related to IT in Education.
B. **Learning Management System:** All faculty members of the department use the MOODLE platform of the University for at least one of their courses. Bright Classes are installed on each faculty member's personal laptop for preparing lesson plans and interactive teaching-learning materials.
C. **Project-Based Learning and Multimedia:** Student teachers are trained by the course instructor on how to use and apply Project-Based Learning and Multimedia in their teaching endeavors.
D. **E-Based Learning and Data Analysis:** Students are exposed to Flipped Classrooms, M-Learning, and E-Learning tools. They are trained to use various software for data analysis, such as Jamovi, SPSS, R, and Python.
E. **Utilization of ICT in Teaching and Learning:** Classrooms are equipped with ICT facilities to facilitate interactive teaching methods, like Smart Classroom with Internet Connection.
F. **Utilization of Digital Platforms:** Digital platforms like NPTEL and SWAYAM are used for learning materials and content learning.
G. **Online Resources:** Materials from NCERT, IGNOU, NCTE, and NITTTR are used as references.

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Course Name & Course Code	Experiential Learning	Participative Learning	Problem Solving Methodolies	Anyother Methods	ICT enabled Tools	Any Other Online Resources
Methodology of Teaching English-I (PKC405) B.Ed 1st year		Microskills being practiced by individual groups(4 groups each 10)			Shared the videos and PPt regarding Communication skill, reading skills	
Creativity(ELC453) B.Ed2nd year	Fluency, originality , flexibility are being practiced	Group Discussion and Presentation			PPT	
Communication and Human Skills(ELC403) M.A	Team Teaching			Content Based PPT preparation and presentation	PPT	
Communication and Human Skills (ELC618)M.Ed 1st Year	Team Teaching			Learning by doing	PPT	
Methodology of Teaching English-II (PKC402) B.Ed 1st		Microskills being practiced by individual groups(4 groups each 10)		Language Lab		
Communication and Human Skills (ELC403) B.Ed 1st Y	Presentations with PPT providing real-life examples followed by Q&A among the Peer	Uploaded the videos of Indv./group-presentations in YouTube(which is displayed on MOODLE). Peer-group learning	Peer Group Discussions	Peer-group discussions/evaluations; Quiz, Application based Activities on MOODLE	PPT presentations with the help of SmartBoard/Google Meet share via mobile; Blending on MOODLE (IUT LMS).	OERs. YouTube links. Slide Share, 115P Content
Assessment for Learning (ELC443) B.Ed 2nd Y	Designing Blue Print & Preparing Achievement Test with respect to the methodology; Peer-group learning; gathering and scoring the data for 3 different psychological tests: Basic statistics with sec data.	Active engagement to experience learning.	Peer Group activity on constructing AT.	Peer-group discussions; Quiz, Application based Assignments or Activities on MOODLE	PPT presentations with the help of Smart Board/Google Meet share via mobile, Blending on MOODLE (IUT LMS).	OERs. YouTube links. Slide Share
Reading and Reflecting on Texts (ELC441) B.Ed 2nd Y	Reading and Reflecting different types of Texts from Library/Internet; Searching resources and converting into schematic graphical representations; Describing different pictures chosen w.r.t. respective methodology; Evaluating text written by peer group following parameters	Presentations; Library activities of identifying and preparing list of resources with respect to present semester in a group(format); Active engagement to experience learning, Prepare Feedback forms and collect responses.	Peer-group learning	Peer-group discussions/evaluations; Quiz, Application based/Learner-Centric Assignments or Activities on MOODLE	PPT presentations with the help of Projector/Google Meet share via mobile, Blending on MOODLE (IUT LMS)	OERs, YouTube links, Slide Share
Basic Research Methodology (EDU603) MA(Edu) & M .Ed	Collecting and framing reviews from library/web related to the choice based primary/secondary education	Presentations	Peer Group Discussions		Google Meet share via mobile, Blending on IUT LMS.	OERs, YouTube links, Slide Share, Journals on different sites.

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Qualitative Research(PKC701)M. Ed	Experiencing styles of writing with help of Library resources/Web search; Making a report on choice based problem (Case Study).	Presentations	Peer Group Discussions on observations of investigation		Google Meet share via mobile.	Journals on different sites.
Methodology of Teaching Life Science-I (B.Ed.)	Showing preparation of Lesson Plan and Micro lesson Plan	Preparation of Lesson Plan and Presentation of it	Preparing Unit plan and Year Plan	Demonstartion of different skills and discuss on it	LMS, PPT	IGNOU Repository materials
E- Based Learning and Data Analysis (M.Ed.)	Demonstrating various technology tools can be used in teaching-learning process	Data Analysis through various software	Analyzing the data and interpretation	Hands on practices in a class with data	LMS, PPT	IGNOU Repository materials
Educational Psychology (B.Ed.)	Discussing needs and importance of Educational Psychology	Group Discussion and Group Presentation and become Facilitator	Intelligence, Personality and Mental Test and its analysis	Assignment, Presentation	PPT	IGNOU Repository materials
Psychology of Learning and Development (M.Ed. and M.A in Edu.)	Discussing needs and importance of Educational Psychology	Group Discussion and Group Presentation and become Facilitator	Intelligence, Personality and Mental Test and its analysis	Assignment, Presentation	PPT	IGNOU Repository materials
Dissertation-I (M.Ed. and M.A in Edu.)	Writing skills	Discussing based on Problem	Drafting the report	NA	NA	IGNOU Repository materials
Dissertation-III (M.Ed. and M.A in Edu.)	Writing skills	Discussing based on Problem	Drafting the report	NA	NA	IGNOU Repository materials
Methodology of Teaching Life Science-II (B.Ed.)	Showing preparation of Lesson Plan and Micro lesson Plan	Preparation of Lesson Plan and Presentation of it	Preparing Unit plan and Year Plan	Demonstartion of different skills and discuss on it	LMS, PPT	IGNOU Repository materials
Pre-School Internship (Summer) (B.Ed.)	Observe the School and Classroom	Observation different events	Preparing School, Teacher and Students profile	NA	NA	NA
Biology (B.Tech.)	Discussing different concept utilised in Engineering	Presentation and Discussion	Group Dissecussion	Assignment and Presentation	LMS and PPT	
Dissertation-III (M.Ed. and M.A in Edu.)	Writing skills	Discussing based on Problem	Drafting the report	NA	NA	IGNOU Repository materials
Dissertation-IV (M.Ed. and M.A in Edu.)	Writing skills	Discussing based on Problem	Drafting the report	NA	NA	IGNOU Repository materials
CASE STUDY PKC 444	Case Study Project					
Internship & PKC613		M.Ed students were taking the classes of B.Ed trainees and acted as a mentor trainees			Shared the videos and PPt regarding Communication skill, reading skills	

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Objectives and Functions of Education (EDU404)			Develop PPT		PPT & Videos Presentation	
Internship in TEI &PKC622		M.Ed students were taking the classes of B.Ed trainees and acted as a mentor trainees				
Pedagogy (EDU433)	Team Teaching Practices	Group Discussion and Presentation			Content Based PPT preparation and presentation	
Communication and Human Skills(ELC403), M.Ed	Team Teaching			Content Based PPT preparation and presentation	PPT	
Reading and Reflecting on Texts		Group Discussion and Presentation			PPT	
Knowledge and Curriculum					Content Based PPT preparation and presentation	
Understanding of ICT					Shared the videos and PPt regarding Communication skill, reading skills	
Research And Publication Ethics		Group Discussion and Presentation			PPt, Videos, Content based materials	
METHODOLOGY OF TEACHING BENGALI-I (PKC406)		Microskills being practiced by individual groups(4 groups each 10)	Case based solving	Peer Teaching, Collaborative learning	Use of Smart Board. moodle	Content Based PPT preparation and presentation
COMMUNITY WORK PROJECT (PKC410)	Survey based project		Analyzing the collected data			
METHODOLOGY OF TEACHING BENGALI -II (PKC412)	Micro Teaching done by students	Group Discussion and Presentation	Case based solving	Peer Teaching, Collaborative learning	Use of Smart Board. moodle	PDF, Content Based PPT preparation and presentation
MANAGEMENT OF SCHOOLS(EDU423)	Presentations followed by Q&A among the Peer	Uploaded the videos of presentation in YouTube(which is added on MOODLE)	Peer Group Discussions		PPT presentations with the help of Google Meet share via mobile, Blending on MOODLE	You Tube links, Slide Share
METHODOLOGY OF SOCIAL STUDIES-I (PKC407)	PREPARATION OF MODELS	Microskills being practiced by individual groups(4 groups each 10)	Case based solving	Peer Teaching, Collaborative learning	Use of Smart Board. moodle	Content Based PPT preparation and presentation

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METHODOLOGY OF SOCIAL STUDIES-II (PKC452)	Micro Teaching done by students	Group Discussion and Presentation	Case based solving	Peer Teaching, Collaborative learn	Use of Smart Board, moodle	ONLINE PDF, Content Based PPT preparation and presentation
PHILOSOPHICAL AND SOCIOLOGICAL FOUNDATION OF EDUCATION (EDU614)	CLASS OBSERVATION OF B.ED STUDENTS	Group Discussion and Presentation	Case based solving	Peer Teaching, Collaborative learning	Use of Smart Board. moodle	ONLINE PDF, Content Based PPT preparation and presentation
PHILOSOPHICAL AND SOCIOLOGICAL FOUNDATION OF EDUCATION (EDU614)	CLASS OBSERVATION OF B.ED STUDENTS	Group Discussion and Presentation	Case based solving	Peer Teaching, Collaborative learning	Content Based PPT preparation and presentation	ONLINE PDF, Content Based PPT preparation and presentation
Gender School & Society (ELC406)		Peer discussion		Uploading Presentation in Youtube	MOODLE, Smart board. PPT	Youtube, Links
Teacher Education (ELC414)		Peer discussion				Youtube, Links
Women Studies Project (PKC410)	Survey based project		Analyzing the collected data			
Educational Counseling (ELC515)		Group Discussion, Presentation				YouTube, Links
Historical Foundation of Education (EDU415)		Group Discussion, Presentation				YouTube, Links

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FACULTY OF ALLIED HEALTH SCIENCES

2.3 - Student centric methods, such as **experiential learning, participative learning and problem-solving methodologies** are used for enhancing learning experiences. **Teachers use ICT enabled tools including online resources for effective teaching and learning processes** during the year.

QUALITATIVE WRITE-UP

The teaching learning processes have changed enormously in these few years. We want to explore more and be practical in every topic we teach. The Faculty of Allied Health Sciences also use different methods to enhance the understanding of the topics. Following learning processes are being used in the Faculty of Allied Health Sciences.

- Experiential Learning
- Participative Learning
- Problem-Solving Methodologies
- ICT enabled tools

Experiential Learning:-Various experiential learning tools like practical demonstration, Hands-on training, simulations and Practical experiments are successfully implemented to make student learning effective

Participative Learning:-Students are always being encouraged and motivated to be a part of various participative sessions like:-

1. Group discussions
2. Collaborative projects
3. Assignments
4. Presentations/posters
5. Workshops/seminars/camps

Problem-Solving Methodologies:-Problem solving methodologies are also used to make students learning process effective and more efficient. Processes like case studies and various analysis methods relevant to the subject is being used

ICT enabled tools: - ICT tools including online resources for effective teaching and learning processes is also being used like smart boards, online teaching, virtual labs, professional videos etc.

Faculty of Allied Health Science The ICFAI University

Dr. Biraj Sarkar
Assistant Professor & Coordinator
Faculty of Allied Health Sciences
The ICFAI University Tripura

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Course Name & Course Code	Experiential Learning	Participative Learning	Problem Solving Methodolies	Anyother Methods	ICT enabled Tools	Any Other Online Resources
Systemic Bacteriology (BMLT201)	-	Group discussions, Collaborative projects, Assignments, Group	Case studies and analysis Simulation based problems	Role playing scenarios for diagnosis and management	Animated videos, online assessments, and powerpoint presentations	https://otago.libguides.com/c.php?g=171516&p=1130381
Systemic Bacteriology Practical (BMLT201P)	Hands-on training, simulations	Group discussions, Collaborative projects, Assignments, Group	Case studies and analysis Simulation based problems			
Microbiology (PMS212T)	-	Group discussions, Collaborative projects, Assignments, Group	Case studies and analysis Simulation based problems	Role playing scenarios for diagnosis and management	Animated videos, online assessments, and powerpoint presentations	https://otago.libguides.com/c.php?g=171516&p=1130381
Microbiology Practical (PMS212P)	Hands-on training, simulations	Group discussions, Collaborative projects, Assignments, Group	Case studies and analysis Simulation based problems			
PECT211T -Applied Pathology and Microbiology Related	NIL	Group presentation	Group project	Group Play	PPT, Smart-Board	Several links
PECT221P- Prac-Applied Pathology and Microbiology Related	Demonstration	Group discussion	Group assignment	Group Play	PPT, Smart-Board	Various links
PECT311-Applied Emergency Care Technology Part 2	nil	Group discussion	Group project	Case Presentation	PPT, Smart-Board	Various links
BMLT301-Applied Bacteriology	nil	Group project	Group assignment	Group discussion	PPT, Smart-Board	Various websites
BMLT301P-APPLIED BACTERIOLOGY PRACTICAL	Demonstration	Group presentation	Group project	Group assignment	PPT, Smart-Board	Various websites
PMS114-Hospital & Health System	nil	Group discussion	Group project	Group assignment	PPT, Smart-Board	Various websites
Advanced Haematology BMLT322	Assignments, Practical experiments relation to the Theory topics	Group discussions	Case studies	None	PPT by using Smart board, Practical demonstration	e-Books, ASH & ISH publications
Blood Banking MMLT612	Assignments, Practical experiments relation to the Theory topics	Group discussions	Case studies	None	PPT by using Smart board, Practical demonstration	CDC guidelines, WHO guidelines for blood transfusion.
Health Operation Management I-PMS 101	Discussions on Hospitals visit	Interaction sessions during class, Presentations	Assignments, Case studies	Role-playing scenarios	Black board, PowerPoint presentation	Various syllabus, topic relevant links from slide share etc, videos from YouTube and
Health Record Sciences-PMS104	Record Demonstration	Interaction sessions during class, Presentations	Assignments ,Case studies	Role-playing scenarios	Black board, PowerPoint presenta	Various syllabus, topic relevant links from slide share etc, videos from YouTube and

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Health Information Management I-PHIM 211	Record Demonstration	Interaction sessions during class, Presentations	Assignments ,Case studies	Role-playing scenarios	Black board, PowerPoint presentation, softwares	Various syllabus, topic relevant links from slide share etc, videos from YouTube and
Professional Practice in HIM-PHIM 212	Discussions on various interviews and visits to organizations	Interaction sessions during class, Presentations, interviews, professional practices	Assignments ,Case studies	Role-playing scenarios	Black board, PowerPoint presentation, professional videos	Various syllabus, topic relevant links from slide share etc, videos from YouTube and
Health Policies and Standards-PHIM 314	nil	Interaction sessions during class, Presentations, group discussion	Assignments ,Case studies	Role-playing scenarios	Black board, PowerPoint presentation	Various syllabus, topic relevant links from slide share etc, videos from YouTube and
General microbiology and bacteriology MMLT503	PowerPoint Presentation	Collaborative projects; Simulation based problems; Group discussions; Case studies	Case studies and analysis; Simulation based problems	Role playing scenarios for diagnosis and management	Smart Board, PowerPoint Presentation	https://main.mohfw.gov.in/Organisation/departments-health-and-family-welfare/pms/model-
General microbiology and bacteriology MMLT503P	Hands-on practice	Collaborative projects; Simulation based problems; Group discussions; Case studies	Case studies and analysis; Simulation based problems	Role playing scenarios for diagnosis and management	Smart Board, Power point Presentation, Practical learning	https://main.mohfw.gov.in/Organisation/departments-health-and-family-welfare/pms/model-
General Clinical MicrobiologyCLMIB101	PowerPoint Presentation	Group discussions; Case studies and analysis; Collaborative projects; Simulation based	Case studies and analysis	Role-playing scenarios for diagnosis and management	Smart Board, PowerPoint Presentation	https://main.mohfw.gov.in/Organisation/departments-health-and-family-welfare/pms/model-
General Clinical MicrobiologyCLMIB101P	Hands-on practice	1. Collaborative projects Simulation based problems Group discussions Case studies	Case studies and analysis Simulation based problems	Role playing scenarios for diagnosis and management	Smart Board, Power point Presentation, Practical learning	https://main.mohfw.gov.in/Organisation/departments-health-and-family-welfare/pms/model-
Cellular Pathology MMLT502	PowerPoint Presentation	1. Group discussions Case studies and analysis 2. Collaborative projects Simulation based problems	Case studies and analysis	Role-playing scenarios for diagnosis and management	Smart Board, PowerPoint Presentation	https://main.mohfw.gov.in/Organisation/departments-health-and-family-welfare/pms/model-curricula-allied-and-healthcare-
Cellular Pathology MMLT502P	Hands-on practice	1. Collaborative projects Simulation based problems Group discussions Case studies and analysis	Case studies and analysis Simulation based problems	Role playing scenarios for diagnosis and management	Smart Board, PowerPoint Presentation, Practical learning	https://main.mohfw.gov.in/Organisation/departments-health-and-family-welfare/pms/model-curricula-allied-and-healthcare-
Haematology MMLT611	Assignments, Practical experiments relation to the Theory topics	Group discussions	Case studies	None	PPT by using Smart board, Practical demonstration	e-Books, ASH & ISH publications
Applied Histology BMLT304	Assignments, Practical experiments relation to the Theory topics	Group discussions	Case studies	None	PPT by using Smart board, Practical demonstration	Virtual videos and slides
Basic Clinical Biochemistry (BCHEM103)	· Problem based learning · Lecture	· Presentation. · Group discussion, · Poster presentation,	· Project work, · Practical analysis	· Collaborative learning · Thinking based learning	Smart board, Power point presentation	https://youtu.be/u34JUu-g7qY?feature=shared
Basic Clinical Biochemistry practical (BCHEM103	· Practical · Experience · Practicing	· Group discussion, · Open & peer questioning	nil	nil	Smart board, Power point presentation	
Anatomy practical(PMS111P)	Hands-on training, simulations	Group discussions,model preparation and exhibition	Simulation based problems	Nil	Smart board,PPT,Youtube videos	https://www.youtube.com/watch?v=m26gr04HIVE

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Community orientation and clinical visit II(AHS201)	Hands-on training, simulations	Group presentations,model preparation and exhibition	Simulation based problems	Role playing scenarios for diagnosis and management	Smart board,PPT,Youtube videos	https://www.youtube.com/watch?v=DUaxt8OIT3o
Anatomy(PMS111T)	Hands-on training, simulations	Group presentations,Assignments,	Simulation based problems	Nil	Smart board,PPT,Youtube videos	https://my.clevelandclinic.org/health/body/21704-heart
Anatomy practical(PMS111P)	Hands-on training, simulations	Group discussions,model preparation and exhibition	Simulation based problems	Nil	Smart board,PPT,Youtube videos	https://www.youtube.com/watch?v=m26gr04HIVE
Community orientation and clinical visit II(AHS201)	Hands-on training, simulations	Group presentations,model preparation and exhibition	Simulation based problems	Role playing scenarios for diagnosis and management	Smart board,PPT,Youtube videos	https://www.youtube.com/watch?v=DUaxt8OIT3o
Medical terminology I(PMS102)	Hands-on training, simulations	Group discussions,Assignments	Simulation based problems	Nil	Smart board,PPT,Youtube videos	https://aimseducation.edu/blog/all-essential-medical-terms
Medical terminology and record keeping(PMS121)	Hands-on training, simulations	Group discussions,Assignments	Simulation based problems	Nil	Smart board,PPT,Youtube videos	https://aimseducation.edu/blog/all-essential-medical-terms
Laboratory Management (MMLT603)	· Problem based learning · Lecture	· Presentation, · Group discussion, · Poster presentation, · Internal exam	· Project work,	· Collaborative learning · Thinking based learning	Smart board, Power point presentation	https://youtu.be/8Rr1clfrqsI?feature=shared
Principle of Laboratory Management (BMLT205)	· Problem based learning · Lecture	· Presentation, · Group discussion, · Poster presentation,	· Project work,	· Collaborative learning · Thinking based learning	Smart board, Power point presentation	https://youtu.be/8Rr1clfrqsI?feature=shared
Introduction to Quality	1. Hands-on training sessions	1. Group discussions 2. Collabo	1. Case studies 2. Analysis	1. Projects 2. Role-playing	1.Virtual labs 2. Online assessm	1. WHO guidelines on lab safety
Medical Mycology and Virology (BMLT221)	-	1. Group discussions 2. Collaborative projects 3. Assignments 4. Group presentations	Case studies and analysis Simulation based problems	Role playing scenarios for diagnosis and management	Animated videos, online assessments, and powerpoint presentations	https://www.afwgonline.com/resources/articles/new-diagnostic-mycology-e-
Medical Mycology and Virology Practical (BMLT221P)	Hands-on training, simulations					https://www.afwgonline.com/resources/articles/new-diagnostic-mycology-e-
Molecular Biology (BMLT323)	-	1. Group discussions 2. Collaborative projects 3. Assignments	Case studies and analysis Simulation based problems	Role playing scenarios for diagnosis and management	Animated videos, online assessments, and powerpoint presentations	https://elearning.icar.gov.in/DisplayUG_ECoursesContent.aspx?CourseCode=f2zCCy3vBS
Molecular Diagnosis (BMLT324)	-	1. Group discussions 2. Collaborative projects 3. Assignments	Case studies and analysis Simulation based problems	Role playing scenarios for diagnosis and management	Animated videos, online assessments, and powerpoint presentations	https://elearning.icar.gov.in/DisplayUG_ECoursesContent.aspx?CourseCode=OxEZGCVe
PECT121-Instrument And Procedure Related To Emergency Medical	-	Participate workshop	Group presentation	Group assignment	PPT	Google
PECT121P-Prac-Instrument And Procedure Related To	Demonstration	Participate workshop	Group presentation	Group assignment	PPT	Google

PECT221-Applied Emc Part 1	-	Group project	Group discussion	Group assignment	PPT	Slide share
PECT221P-Prac-Applied Emc Part 1	demonstration	Group assignment	Group discussion	Group project	PPT	Slide share
PECT321-Applied Emc Technology Part 3	-	Participate workshop	Group project	Group discussion	PPT	Google
PMS201-Nutrition	-	Group discussion	Group presention	Group project	PPT	Slide share
Electronic Health Record-PHIM 225	Record Demonstration	Interaction sessions during class, Presentations	Assignments, Case studies	Role-playing scenarios	Black board, PowerPoint presentation, software	Various syllabus, topic relevant links from slide share etc, videos from YouTube and eBooks
Organizational development & planning in health information	nil	Interaction sessions during class, Presentations	Assignments ,Case studies	nil	Black board, PowerPoint presentation, softwares	Various syllabus, topic relevant links from slide share etc, videos from YouTube and eBooks
Quality assurance in healthcare- PHIM 223	Practical Demonstration	Interaction sessions during class, Presentations	Assignments ,Case studies	nil	Black board, PowerPoint presentation	Various NABH,JCI,ISO and syllabus relevant links
Health information managementII & nomenclature-PHIM	nil	Interaction sessions during class, Presentations, group discussion	Assignments ,Case studies	nil	Black board, PowerPoint presentation, professional videos	Various syllabus, topic relevant links from slide share etc, videos from YouTube and
Health information management II, medical transcription	nil	Interaction sessions during class, Presentations, group discussion	Assignments ,Case studies	nil	Black board, PowerPoint presentation, professional videos	Various syllabus, topic relevant links from slide share etc, videos from YouTube and
Application of him in non-traditional settings-PHIM 323	nil	Interaction sessions during class, Presentations	Assignments, Case studies	nil	Black board, PowerPoint presentation	Various syllabus, topic relevant links from slide share etc, videos from YouTube and
Histopathology(MML T509)	PowerPoint Presentation	1. Group discussions Case studies and analysis 2. Collaborative projects	Case studies and analysis	Role-playing scenarios for diagnosis and management	Smart Board, PowerPoint Presentation	https://main.mohfw.gov.in/Organisation/departments-health-and-family-welfare/pms/model-
Histopathology(MML T509P)	Hands-on practice	1. Collaborative projects Simulation based problems Group discussions Case studies	Case studies and analysis Simulation based problems	Role playing scenarios for diagnosis and management	Smart Board, PowerPoint Presentation, Practical learning	https://main.mohfw.gov.in/Organisation/departments-health-and-family-welfare/pms/model-
Parasitology(BMLT220T)	PowerPoint Presentation	1. Group discussions Case studies and analysis 2. Collaborative projects	Case studies and analysis	Role-playing scenarios for diagnosis and management	Smart Board, PowerPoint Presentation	https://main.mohfw.gov.in/Organisation/departments-health-and-family-welfare/pms/model-
Parasitology(BMLT220P)	Hands-on practice	1. Collaborative projects Simulation based problems Group discussions Case studies	Case studies and analysis Simulation based problems	Role playing scenarios for diagnosis and management	Smart Board, PowerPoint Presentation, Practical learning	https://main.mohfw.gov.in/Organisation/departments-health-and-family-welfare/pms/model-

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Parasitology(MMLT510T)	PowerPoint Presentation	1. Group discussions Case studies and analysis 2. Collaborative projects	Case studies and analysis	Role-playing scenarios for diagnosis and management	Smart Board, Power point Presentation	https://main.mohfw.gov.in/Organisation/departments-health-and-family-welfare/pms/model-
Parasitology(MMLT510P)	Hands-on practice	1. Collaborative projects Simulation based problems Group discussions Case studies	Case studies and analysis Simulation based problems	Role playing scenarios for diagnosis and management	Smart Board, Power point Presentation, Practical learning	https://main.mohfw.gov.in/Organisation/departments-health-and-family-welfare/pms/model-
BASIC HEMATOLOG	1. Hands-on training sessions	1. Group discussions 2. Collabo	1. Case studies 2. Analysis	1.Projects 2. Role-playing s	1.Virtual labs 2. Online assessm	1. WHO guidelines on lab safety
CYTOPATHOLOGY (P	1. Hands-on training sessions	1. Group discussions 2. Collabo	1. Case studies 2. Analysis	1. Role-playing scenarios	1.Virtual labs 2. Offline assessm	1. WHO guidelines on lab safety
Immunology & Virology (MMLT507)	nil	Group Discussion, Open and peer questioning	nil	nil	Smart Board, Power point Presentation	Scientific Video
Immunology & VirologyPractical (MMLT507P)	Practical Experience, Practicing Skills	Group Discussion, Open and peer questioning	nil	nil	Smart Board, Power point Presentation	
Blood Banking & Genetics (BMLT321)	nil	Group Discussion, Open and peer questioning	nil	nil	Smart Board, Power point Presentation	Scientific Video
Blood Banking & Genetics Practical	Practical Experience Practicing Skills	Group Discussion, Open and peer questioning	nil	nil	Smart Board, Power point Presentation	
Physiology (PMS112T)	nil	Group Discussion, Open and peer questioning	nil	nil	Smart Board, Power point Presentation	Scientific Video
Applied Haematology BMLT302	Assignments, Practical experiments relation to the Theory topics	Group discussions	Case studies	None	PPT by using Smart board, Practical demonstration	e-Books, ASH & ISH publications
Blood Banking MMLT 508	Assignments, Practical experiments relation to the Theory topics	Group discussions	Case studies	None	PPT by using Smart board, Practical demonstration	CDC guidelines, WHO guidelines for blood transfusion
Clinical Pathology MMLT506	Assignments, Practical experiments relation to the Theory topics	Group discussions	Case studies	None	PPT by using Smart board, Practical demonstration	e-Books, ASH & ISH publication, Virtual slides.
Introduction to quality and patient safety (PMS123T)	· Problem based learning · Lecture	· Presentation, · Group discussion. · Poster presentation.	· Project work,	· Collaborative learning · Thinking based learning	Smart board, Power point presentation	https://youtu.be/u34JUu-g7qY?feature=shared
Introduction to quality and patient safety practical (PMS123P)	· Practical · Experience · Practicing · Skills	· Group discussion. · Open & peer questioning	nil	nil	Smart board, Power point presentation	
Immunology & bacterial serology (BMLT222)	· Problem based learning · Lecture	· Presentation, · Group discussion. · Poster presentation.	· Project work,	· Collaborative learning · Thinking based learning	Smart board, Power point presentation	https://y https://youtu.be/xQiF2Zwl2uo utu.be/xQiF2Zwl2uo

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Immunology & bacterial serology practical (BMLT222P)	· Practical · Experience · Practicing	· Group discussion, · Open & peer questioning	nil	nil	Smart board, Power point presentation	
General Clinical Microbiology (CLMIB101)	· Problem based learning · Lecture	· Presentation, · Group discussion, · Poster presentation,	· Project work,	· Collaborative learning · Thinking based learning	Smart board, Power point presentation	https://youtu.be/prTsBspXotg?feature=shared
General Clinical Microbiology practical(CLMIB101P)	· Practical · Experience · Practicing	· Group discussion, · Open & peer questioning	nil	nil	Smart board, Power point presentation	
Applied cardiac care technology part 1(PCCT221T)	Hands-on training, simulations	Group discussions,Assignments	Case studies	Nil	Smart board,PPT,Youtube videos,Moodle	https://www.youtube.com/watch?v=DUaxt8OlT3o
Applied cardiac care technology part 1 practical(PCCT222P)	Hands-on training, simulations	Collaborative projects	Simulation based problems	Role playing scenarios for diagnosis and management	Smart board,PPT,Youtube videos	https://www.youtube.com/watch?v=3kETSCOMGIE
Applied emergency care technology part III practical(PECT321P)	Hands-on training, simulations	Collaborative projects	Simulation based problems	Role playing scenarios for diagnosis and management	Smart board,PPT,Youtube videos	https://www.youtube.com/watch?v=Lurq9DroJag
Anatomy (PMS111T)	Nil	Group discussions,Assignments	Simulation based problems	Nil	Smart board,PPT,Youtube videos	https://my.clevelandclinic.org/health/body/21704-heart

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Faculty of Library and Information Science

Student centric methods (2.3)
For AY-2021-22, 2022-23 & 2023-24

Student-Centered Learning: It Starts With the Teacher

- Teachers may foster student-centered learning by letting students participate in decision-making, having faith in their ability to lead, and keeping in mind what it's like to be a student.
- A single teaching strategy is not used in learner-centered teaching. Emphasizes a range of techniques that change the teacher's role from being an information provider to being a facilitator of the students' learning.

Difference between Teacher-Centered and Student-Centered Approach

Elements	Teacher-Centered	Student-Centered
KNOWLEDGE	Transmitted from instruction	Constructed by students
STUDENT PARTICIPATION	Passive	Active
ROLE OF FACULTY	Leader/Authority	Facilitator/Learner
ROLE OF ASSESSMENT	Few tests, mainly for grading	Many tests for ongoing feedback
EMPHASIS	Learning current answers	Developing deeper understanding
ASSESSMENT METHOD	One-Dimensional testing	Multidimensional testing
ACADEMIC CULTURE	Competitive, Individualistic	Collaborative, Supportive

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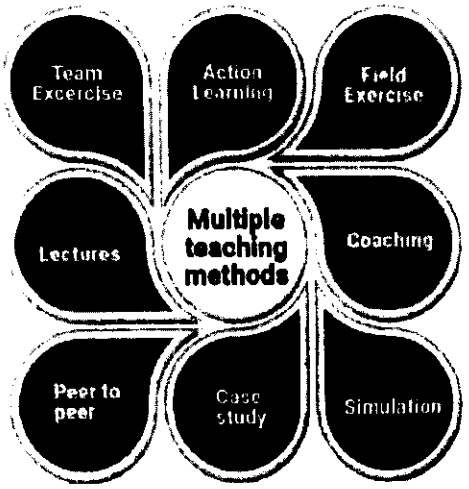
Implementation of Multiple Teaching Practices in Library and Information Science Programs



❖ Experiential learning:

- ✓ Presentations on Recent developments (History taking, physical examination, evidence-based discussions etc.)
- ✓ Peer-Assisted learning
- ✓ Projects, research discussions
- ✓ Seminars
- ✓ Internship
- ✓ Field visits/Library Visits

❖ Participatory learning:

- ✓ Problem-Based-Learning
- ✓ Group discussions
- ✓ Quizzes
- ✓ Role plays
- ✓ Community out-reach activities
- ✓ Health camps
- ✓ Blood donation
- ✓ Tree Plantation
- ✓ Swachh Bharat Abhiyan
- ✓ Health Activities (Yoga, Sports)

❖ Problem-solving methodologies:

- ✓ Software Installation
- ✓ Research projects
- ✓ Dissertations/Thesis writing
- ✓ Literature Searc

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2.3 - Student centric methods, such as **experiential learning, participative learning and problem-solving methodologies** are used for enhancing learning experiences. **Teachers use ICT enabled tools including online resources for effective teaching and learning processes** during the year.

Program Name: B.Lib.I.Sc./M.Lib.I.Sc/M.Lib.I.Sc.(Int.)					**Sem I**	
Course Name & Code	**Experiential Learning**	**Participative Learning**	**Problem-Solving Methodologies**	**Any Other Methods**	**ICT enabled tools**	**Any Other Online Resources**
Knowledge Organization and Document Processing (Theory)/ (Practice) (LIS101)/ (LIS101P)	PPT Presentation, Collection of Transcription and Book Titles to discuss among the Peer Groups	Report on Classification and Cataloguing Practices	Practice sessions using the Knowledge Organization Tools	Collection of problems from other libraries using their Open Access facility	PPT Presentation using Smart Board, Laptop	Open Education Resources, Institutional Repositories, Open Access Journals
Communication and Soft Skills (CSS401)	PPT Presentations with the a topic related to a current topic followed by Q&A among the Peer	Other students from the audience need to interact and deliver their views on the same topic	Peer Group Discussions	-	Making Videos and Upload to YouTube	Open Education Resources, Institutional Repositories, Open Access Journals
Library Internship Program (LIS209)	PPT Presentation	Working in different sections of the Library	Classifying the difficult titles	Report Making	Use of Computers, Laptops for work, making report etc	-

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Program Name: B.Lib.I.Sc./M.Lib.I.Sc/M.Lib.I.Sc.(Int.)					Sem II	
Configuration & Application of Integrated Library Management Software (Practical) (LIS502P)	Installation of Open Source Softwares	Setup Library with different Modules	Inclusion and Exclusion of modules as per requirements of the Library	Comparison with other same kind of softwares	Linux based setup	-
Community Information Service and Information Literacy (LIS 504)	Visit to the community and Q&A about the Information	Giving task to the community people to aware about the information literacy	Solving peoples problem by guiding with the proper sources of information	Use of Internet using ICT Tools	-	Institutional Repositories, Websites

The way that content is delivered in education is evolving. More than ever, student-centered learning strategies are essential. Building capacity, leadership, critical thinking abilities, and sophisticated problem solving in our children is imperative, just as school administrators work to develop the same qualities in their instructors.

Student-centered learning practices offer opportunities for empowerment that go beyond required tests and prepackaged, standards-based curricula. By putting the strategies that have been presented to use, you can put pupils on a path that will prepare them to contribute to a constantly evolving global community.

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