

Item 32.04
Minutes of the BOS Meeting Date: 04/08/2023
Department of English, Faculty of Liberal Arts
(Prof. Mousumi Biswas, Principal will brief the meeting)

The 9th Meeting of the Board of Studies (BOS) of the Department of English, Faculty of Liberal Arts was convened on 04/08/2023 at 04:30 pm in the online mode. Prof. Mousumi Biswas, Principal, FLA chaired the meeting.

Members present in the meeting:

1. Prof. Mousumi Biswas (Principal, Faculty of Liberal Arts)- Chairperson.
2. Dr. Gitanjali Roy (Assistant Professor, Department of English, Faculty of Liberal Arts)- Member Secretary.
3. Dr. Aditya Ghosh (Assistant Professor, Department of English, Faculty of Liberal Arts).
4. Dr. Thingnam Anne (Assistant Professor, Department of English, Faculty of Liberal Arts).
5. Dr. Madhumita Chakraborty (Assistant Professor, Department of English, Faculty of Liberal Arts).
6. Dr. Pramod K. Nayar, Professor, Department of English, University of Hyderabad.

Agenda of the meeting:

1. Approval of the Minutes of the previous BOS Meeting.
2. Approval for the newly developed BA English Program structure (4-Year Degree) with credit distribution as per NEP 2020.
3. Approval for designed syllabus of the course in the newly developed BA English Program structure (4-Year Degree) with credit distribution as per NEP 2020.
4. Any other matter, with the permission of the chair.

Minutes of Meeting:

Sl. No.	Particulars
1	<p style="text-align: center;">Agenda 1: Approval of the Minutes of the previous BOS Meeting.</p> <p>Consideration of Action Taken Report for approval of the previously held meeting on 22.03.2023.</p> <p>The action taken report of the last BOS meeting held on 22.03.2023 was discussed and the same is put forward before the Academic Council for approval</p> <p>Resolutions:</p> <p>The Action Taken Report of the previously held meeting on 22.03.2023 was approved by all the members.</p>
2	<p style="text-align: center;">Agenda 2: Approval for the newly developed BA English (Major) Program structure (4-Year Degree) with credit distribution as per NEP 2020.</p> <p>Resolution:</p> <p>Dr. Gitanjali Roy, Member Secretary, elaborately presented the program structure and syllabus of 1st year (1st semester & 2nd semester) courses of the 4-year structure.</p>



According to the structure, besides English (Major), Political Science/ Psychology/ Sociology/ Education will be offered as Minor subjects from the FLA department. Also, Interdisciplinary courses, Ability Enhancement courses, Skill Enhancement courses & Value-Added courses were proposed for suggestion.

3. **Agenda 3: Restructuring of the BA English (Major) Program Structure as Per National Education Policy (NEP) 2020.**

Resolution

Members suggested few changes in the course title as follows:

- 'Linguistic Proficiency in English' to 'Proficiency in English' as this title would be more appropriate and contemporary.
- 'Value Education & Ethics' to 'Introduction to Ethics' and to launch it as Value Added course.
- 'Indian Polity and Economy' to 'Indian Polity'. Recommendation was made to offer the course under Interdisciplinary subjects instead of Value-Added Courses.
- 'The Art of Storytelling' to 'Storytelling' as it would open platform for expertise from diverse spheres (Art, Music, Theatre, etc.) to be invited as resource person
- 'Northeast Literature' to Northeast Literature in Translation
- 'Literary Criticism' to Classical Literary Criticism: from Aristotle to New Critics.
- 'Recent Trends in Research & studies in English' to 'Recent Trends in English Studies'
- 'Modern British Fiction & Non-fiction' is too broad an area to cover within one semester. Therefore, he recommended changing the course name to 'Modern British Novel' and to design the syllabus accordingly.

3: **Approval of structure of BA-English (Major) 2nd, 3rd & 4th year.**

Resolution:

Suggestions made by experts:

- To include SWAYAM courses in the NFP structure, only if the University provide proper guidelines (in written) regarding Credit transfer and evaluation process.
- Specialized invited lecture for Discipline specific electives as it would enrich the course curriculum and provide exposure to the students.
- Experts suggested preparing template for dissertation students. He advised keeping components from Bibliography, journal writings, plagiarism check, MLA Style sheet etc. which should culminate into publication of quality research paper in a journal, if possible
- Also, advised to prepare a template for Minor Project as well. The template should spell out the guidelines of the Project in clear terms. He further added that the Project should produce a report of 4000-5000 words, followed by a viva as well

4. **Agenda 4: Any other matter, with the permission of the chair.**

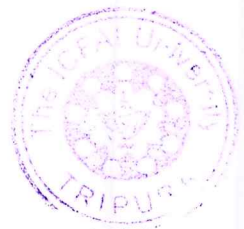
Resolution:

- Dr. Nayar strongly recommended applying for incorporation of Fulbright scholars to enhance Faculty-Student exchange programs. He has also asked to



initiate MoU programs with other organizations and institutions.

- Having everything in line, Experts expressed that the NEP is well-structured and recommended that the courses may be offered from the academic year 2023-24.



Item 32.03

Confirmation of Minutes of the 31st Meeting of the Academic Council of the ICFAI University, Tripura dated 24th January, 2023

Minutes of the 31st Meeting of the Academic Council of the ICFAI University, Tripura dated 24th January, 2023

Present:

Name	Designation
Prof.(Dr) Biplab Halder	Vice Chancellor Chairman
Dr. A. Ranganath	Registrar
Dr. Biswajit Chakrabarty	Member (External)
Dr. Prabhu Narayan Mishra	Member (External)
DR. (Prof.) Jitendra D. Lakhani	Member (External)
Dr. Subhasish Chatterjee	Member
Dr. Priyangshu Rana Borthakur	Member
Dr. Sujit Deb	Member
Dr. Prem Shankar Srivastava	Member
Dr. Swarnali Nath Choudhury	Member
Dr. Silali Banerjee	Member
Prof. Mousumi Biswas	Member
Dr. Debabrata Roy	Member
Mrs. Ireen V. Darlong	Member
Dr. Zigisha Pujari	Member
Dr. Prasanta Kumar Sinha	Member
Mr. Arijit Das	Member
Dr. Palash Dey	Invitee
Dr. Saptarshi Chakraborty	Invitee
Dr. Subhrajyoti Deb	Invitee
Dr. Sovan Ghosh	Invitee
Dr. Arnab Ghosh	Invitee
Dr. Rita Banik	Invitee
Dr. Arindam Banerjee	Invitee
Dr. Subodh Debbarma	Invitee
Dr. Mamoni Kalita	Invitee
Dr. Prasenjit Dasgupta	Invitee
Dr. Annesha Saha	Invitee
Dr. Dulal Debnath	Member
Dr. T K Mandal	Member
Dr. Arijit Chatterjee	Member

Prof.(Dr) Biplab Halder, Vice Chancellor, presided over the meeting and the following items of business were transacted.

31.01 Grant of leave of absence, if any.



1. BOS 1/22

Dr. Birbal Saha and Dr. Armit Kumar Laha were absent and they were granted leave of absence

31.02 Welcome to the new members

Prof. Biplab Halder welcomed Dr. Prasanta Kumar Sinha and Dr. Arijit Chatterjee, to the Academic Council

31.03 Confirmation of the Minutes of the 30th Meeting of the Academic Council of The ICFAI University, Tripura held on 19th September, 2022.

The minutes of the 30th meeting of the Academic Council of The ICFAI University, Tripura were taken as read and confirmed by the Council.

31.04 BOS Minutes of ICFAI Law School,

Dr. Zigisha Pujari briefed the minutes and resolutions of the Board of Studies of ICFAI Law School. Council approved the resolutions of the board of studies.

31.05 BOS Minutes of Department of Physics

Dr. Sovan Ghosh briefed the minutes and resolutions of the board of studies of physics. Council approved the resolutions of the board of studies and suggested to include instrumentation, non-destructive way of characterization, magnetic penetration etc. and Artificial Intelligence course.

31.06 BOS Minutes of Department of Chemistry

Dr. Swarnali nath Choudhary briefed the minutes and resolutions of the board of studies of chemistry. Council approved the resolutions of the board of studies and also suggested to offer the Bio-chemistry as an optional course

31.07 BOS Minutes of Department of Mathematics

Dr. Arnab Ghosh briefed the minutes and resolutions of the board of studies of Mathematics. Council approved the resolutions of the board of studies and suggested to offer the courses like data science and artificial intelligence

31.08 BOS Minutes of Department of Civil Engineering

Dr. Manish Sakhlecha briefed the minutes and resolutions of the board of studies of Civil Engineering. Council approved the resolutions of the board of studies

31.09 BOS Minutes of Department of Electrical & Communication Engineering

Dr. Rita Banik briefed the minutes and resolutions of the board of studies of Electrical & Communication Engineering. Council approved the resolutions of the board of studies.

31.10 BOS Minutes of Electronic & Communication Engineering

Prof. Dhriti Rudhrpal briefed the minutes and resolutions of the board of studies of Electronic & Communication Engineering. Council approved the resolutions of the board of studies.



BOS Minutes of Computer Science & Engineering

Prof. Abhijit Biswas briefed the minutes and resolutions of the board of studies of Computer Science & Engineering. Council approved the resolutions of the board of studies.

31.12 BOS Minutes of Mechanical Engineering

Dr. Subodh Debbarma briefed the minutes and resolutions of the board of studies of Mechanical Engineering. Council approved the resolutions of the board of studies.

For CE/EE/ECE/CSE/ME deptt- It was suggestion that Units in LPU structure to be allocated for the CRT Courses being offered and grade to be awarded to students.

31.13 BOS Minutes of Physical Education & Yoga

Dr. Dulal Debnath briefed the minutes and resolutions of the board of studies of Physical Education & Yoga. Council approved the resolutions of the board of studies.

31.14 BOS Minutes of Faculty of Liberal Arts

Prof. Mousumi Biswas briefed the minutes and resolutions of the board of studies of Faculty of Liberal Arts. Council approved the resolutions of the board of studies.

31.15 BOS Minutes of Research & Development Cell

Dr. Tapan Kumar Mondal briefed the minutes and resolutions of the board of studies of Research & Development Cell. Council approved the resolutions of the board of studies.

31.16 BOS Minutes of B.Com Hons

Dr. Annesha Saha briefed the minutes and resolutions of the board of studies of B.Com Hons. Council approved the resolutions of the board of studies.

31.17 BOS Minutes of BBA

Dr. Sujit Deb briefed the minutes and resolutions of the board of studies of BBA. Council approved the resolutions of the board of studies.

31.18 BOS Minutes of MHA

Dr. Sujit Deb briefed the minutes and resolutions of the board of studies of MHA. Council approved the resolutions of the board of studies.

31.19 BOS Minutes of MBA

Dr. Sujit Deb briefed the minutes and resolutions of the board of studies of MBA. Council approved the resolutions of the board of studies.

31.20 Any other item with the permission of the chair

No other additional item was discussed in the meeting.

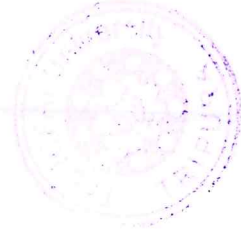


21 Date for the next meeting of Academic Council.

It was agreed that the date for the next meeting of the Academic Council would be fixed in consultation with the Chairman

Meeting concluded with a vote of thanks to the chair

Dr. Biplab Halder
Vice Chancellor





The ICFAI University, Tripura

(Established under section 4(2) of the Institute of Chartered Financial Analysts of India University, Tripura Act 2004)
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Ref. No. IUT/FLA/AY23-24/Acad.Affairs/Eng/10

Date: 05.02.2024

Minutes of the BOS Meeting Date: 11/01/2024

Faculty of Liberal Arts (English)

The 10th Meeting of the Board of Studies (BOS) of the Department of English, Faculty of Liberal Arts was convened on 11.01.2024 at 04:30 pm in the online mode. Prof. Mousumi Biswas, Principal, FLA chaired the meeting.

Members Present in the meeting:

1. Prof. Mousumi Biswas, (Principal, Faculty of Liberal Arts)-Chairperson.
2. Dr. Gitanjali Roy (Assistant Professor, Department of English, Faculty of Liberal Arts)- Member Secretary.
3. Dr. Aditya Ghosh (Assistant Professor, Department of English, Faculty of Liberal Arts)
4. Dr. Thingnam Anne (Assistant Professor, Department of English, Faculty of Liberal Arts)
5. Dr. Madhumita Chakraborty (Assistant Professor, Department of English, Faculty of Liberal Arts)
6. Dr. Pramod K. Nayar, Professor, Department of English, University of Hyderabad- External.

Invited Members:

1. Prof. Dr. Subhasish Chatterjee, Dean, Academic Affairs, ICFAI University Tripura

Agenda of the meeting:

1. Approval of the Minutes of the previous BOS Meeting
2. Approval for the designed syllabus of the courses of Year-I; Sem-II of the BA English Program structure (4-Year Degree) as per NEP 2020.
3. Approval for the designed syllabus of the courses such as Soft Skills, English Language Skills, Technical Writing and Business Communication offered to students of different programs of the University

Minutes of Meeting:

Sl. No.	Particulars
1	<p>Agenda 1: Approval of the Minutes of the previous BOS Meeting. Consideration of Action Taken Report for approval of the previously held meeting on 23.08.2023.</p> <p>Resolution: The action taken report of the last BOS meeting held on 23.08.2023 was discussed and put forward before the Academic Council for approval on 15.09.2023. The Action Taken Report of the previous meeting was approved by all the members.</p>





The ICFAI University, Tripura

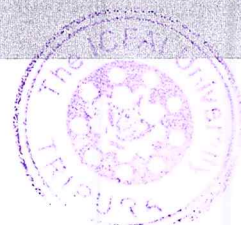
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2	Agenda 2: Approval for the designed syllabus of the courses of Year-I; Sem-II of the BA English Program structure (4-Year Degree) as per NEP 2020
	Resolution: Dr. Gitanjali Roy, Member Secretary, elaborately presented the syllabus of 1 st year; 2 nd semester courses of the 4-year BA-English Program structure.
	► Agenda 2A: Approval for the designed syllabus of the courses of Year-I; Sem-II of the BA English-Major Program
	Resolution: Members were of the opinion that the designed syllabus of the courses is appropriate and contemporary. Dr. Nayar provided few suggested readings relevant to the courses and encouraged the faculties to consult them for enriching the learning of the students.
	► Agenda 2B: Approval for the designed syllabus of the courses of Year-I; Sem-II- 'Sports & Yoga'; 'Value Education & Ethics'
	Resolution: The syllabus of 'Sports & Yoga' was designed by the faculty of Physical Education. Dr. Nayar appreciated the faculties for keeping this type of courses for the greater benefit of the students.
	The syllabus of 'Value Education & Ethics' was designed by the Philosophy faculty. Dr. Nayar along with other members approved the course.
3	Agenda 3: Approval for the designed syllabus of the courses such as Soft Skills, English Language Skills, Technical Writing and Business Communication offered to students of different programs of the University
	Resolution: The revised syllabus of the courses of 'Soft Skills', 'English Language Skills', 'Technical Writing' and 'Business Communication' were elaborately explained. Looking to the skill and ability enhancement of the students, members agreed that the syllabus is more objective and result-oriented now and will provide better exposure to students.
	However, Dr. Nayar suggested compiling Paper-I & Paper-II of English Language Skills into one course. He suggested replacing 'English Language Skills-II' with 'Technical Writing' instead, as it is contemporary in nature and shall build the writing skills of the students. The change in the course names have been made and subsequently approved by all.



Sl. No.	Course No.	Semester-II	Credits
1		<p align="center">Renaissance and Elizabethan Age</p> <ol style="list-style-type: none"> 1. Background Study <ul style="list-style-type: none"> - Rise of Renaissance- Social and Literary History of the Age - Elizabethan Age- Social and Literary History of the Age 2. English Sonnet <ul style="list-style-type: none"> - Petrarch, Wyatt, Surrey, Sidney, Spenser, Shakespeare (Detailed analysis of any 1 text of at least 3 poets) 3. English Drama <ul style="list-style-type: none"> - Shakespeare - University Wits - Ben Jonson, Thomas Dekker, Marlowe (Detailed study of any 1 text) 4. Metaphysical Poets and Poetry <ul style="list-style-type: none"> - Donne, Marvel, Vaughan and others (Detailed analysis of any 1 text of at least 2 poets) 4. Bacon's Essays (Non- Detailed analysis of any 2 texts) 	4
2		<p align="center">The Age of Milton & Restoration Period</p> <ol style="list-style-type: none"> 1. Background Study <ul style="list-style-type: none"> - Age of Milton- Social and Literary History of the Age - Puritan Age- Social and Literary History of the Age - Restoration Period- Social and Literary History of the Age (The Glorious Revolution, Restoration Comedy, Tragedy, Age of Dryden) 2. John Milton: <ul style="list-style-type: none"> - Milton's Sonnets (Detailed study of any 1 sonnet) - <i>Paradise Lost</i> Book-I (Detailed study) 3. Dryden: <ul style="list-style-type: none"> - <i>Mac Flecknoe</i> (Detailed study) 4. Sheridan/ Goldsmith/ Congreve (Detailed study of any 1 text) 	4
5		Technical Writing	3



1. Communication:
 - Language and communication, distinct features of speech, distinct features of writing.
2. Technical Writing:
 - Introduction and Definition
 - Role of a Technical writer
 - Principles of Technical writing
 - Writing Skills: Selection of topic- Introduction- development of the argument-transitional and concluding paragraphs- coherence and cohesion- descriptive, narrative, expository and argumentative writing.
 - Practical (Hands-on) Writing using the above theoretical knowledge
3. Writing models:
 - Essay (expansion of ideas, dialogue)
 - Letter writing, Report Writing, Notice, Memorandum, Agenda
 - Job application, Cover letter, CV, e-mail
 - Academic writing (note-making, paraphrasing, summary writing, survey, questionnaire)
4. Critical Writing for Specific Purposes (In English and Regional languages)
 - Reviews of Books
 - Review of Movies
5. Writing for Magazines:
 - Identifying different types of magazines, identifying their target audience
 - Magazine cover content (Taglines and captions)
 - The use of imperatives, use of questions in Cover lines
 - Use of rhyming and alliteration
 - The use of specific verb forms used to express future
 - Use of images in narrating a story

6

Sports & Yoga

2

PART A: YOGA

1. Introduction of Yoga

- Introduction of Yoga, Meaning and Concept of Yoga, Origin of Yoga, History of Development of Yoga, Aims and Objective of Yoga, Benefits of Yoga, Eight Limbs of Yoga, Bhakthi Yoga, Gyan Yoga, Karma Yoga.

2. Asana, Pranayama and Meditation Practices

- Meaning of Asanas, Objective of Asanas, rules and regulations of Asanas and Pranayamas, Types of Yogasana
Yogic postures: Standing Posture, Sitting posture, Supine posture, prone posture, balancing Postures, Pranayama according to Patanjali and Hath Yoga, Meditation Mudras

3. Science of Yoga

- Stress management and yoga, Mental health and yoga practice, Health and Personality Development.

4. Surya Namaskar

PART B: SPORTS/GAMES

Some form of Athletics would be compulsory for all students, unless restricted due to medical / physical reasons. In addition to this, a student has to opt for at least one game out of the remaining mentioned below. A fair theoretical knowledge and a reasonable amount of field / site practice of the chosen games will be essential.

1. Athletics
2. Volleyball
3. Basketball
4. Handball
5. Football
6. Badminton
7. Kabaddi
8. Kho-Kho
9. Table tennis
10. Cricket

7

Value Education & Ethics

2

Module I: Value Education

- ◆ Meaning, Definition and Concept of Value Education.
- ◆ Historical Basis of the Concept of Value
- ◆ Classification of Values and Sources of Values.

Module II: Value Crisis and Importance of Value Education

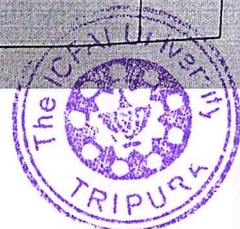
- ◆ Value Crisis and Causes of the Declination of Values
- ◆ Importance of Value Education in Twenty First Century
- ◆ Kinds of Values Need to be Inculcated e.g. Ethical, Spiritual
- ◆ Role of Home, School and Society in Fostering Value Education

Module III: Ethics

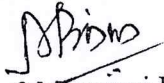
- ◆ Definition, Nature and Scope of Ethics
- ◆ The Five Great Vows (*Pañchamahāvratā*), Objective of Man (*Puruṣārtha*)
- ◆ Kantian Ethics: Categorical Imperative, Duty for duty sake, Good Will, Maxims of morality, Postulates of morality
- ◆ Utilitarian's View on Ethics

Module IV: Practical Ethics

- ◆ Environmental Ethics
- ◆ Professional Ethics
- ◆ Socio- Economic Impact of Drug and Tobacco Addiction and Alcoholism



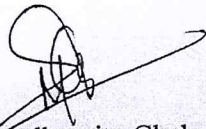
Signatures of Members of BOS



Prof. Mousumi Biswas
Principal,
Faculty of Liberal Arts
(Chairperson)



Dr. Gitanjali Roy
Assistant Professor,
Department of English,
Faculty of Liberal Arts.
(Member Secretary).



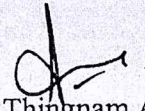
Dr. Madhumita Chakraborty,
Assistant Professor,
Department of English,
Faculty of Liberal Arts.
(Internal Member)



Dr. Pramod K. Nayar,
Professor, Department of English,
University of Hyderabad
(External BoS Member)

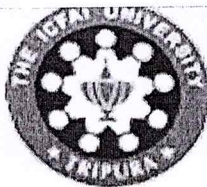


Dr. Aditya Ghosh,
Assistant Professor,
Department of English,
Faculty of Liberal Arts.
(Internal Member)



Dr. Thingnam Anne,
Assistant Professor,
Department of English,
Faculty of Liberal Arts.
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Department of English, Faculty of Liberal Arts

Ref: IUT/ FLA/ AY22-23/Acad. Affairs./

Date: 11/01/2024

4 YEAR UG-DEGREE (HONOURS) -NEP structure

4 YEAR UG-DEGREE (HONOURS WITH RESEARCH)-NEP structure

Sl. No.	Courses offered to students of all programs other than BA- English (Major)	
	Existing syllabus	Proposed syllabus
1	<p>Soft Skill</p> <p>Unit 1:</p> <ul style="list-style-type: none"> ➤ Importance of Soft Skills ➤ Communication skills ➤ Listening and Speaking skills <p>Unit 2:</p> <ul style="list-style-type: none"> ➤ Assertiveness skills ➤ Voice Modulation ➤ Presentation Skills <p>Unit 3:</p> <ul style="list-style-type: none"> ➤ Adaptability ➤ Stress management ➤ Conflict Management and Negotiation Skills ➤ Attitude <p>Unit 4:</p> <ul style="list-style-type: none"> ➤ General awareness ➤ Etiquette ➤ News Reading ➤ Group activity and team work in workplace <p>Unit 5:</p> <ul style="list-style-type: none"> ➤ Group Discussion ➤ Debate ➤ Live projects 	<p>Soft Skill</p> <p>Unit 1:</p> <p><u>Adaptability</u> Definition of Adaptability, Adaptation in new work environment, Deal with new work situation and solving problem creatively, interpersonal adaptability</p> <p><u>Personal Grooming & Etiquette</u> Introduction to Grooming, Grooming for professional and personal development, Discussion on Personal hygiene and Health. Definition of Etiquette & its importance in the professional world: ways to Win positive first impression</p> <p><u>Perception & Attitude</u> Discussion on importance of attitude (Including Values & Ethics): Concept, Purposes, Characteristics. How to control emotions. Learning to be Resilient</p> <p>Unit 2:</p> <p><u>SWOT Analysis</u> Relevance of SWOT on goal setting, SWOT in Career Planning, Career SWOT Quadrants: Opportunities to Pursue, Threats to Eliminate, Things to Improve, Mitigation & Avoidance</p> <p><u>CV Making</u> Drafting a CV(Alignment, Look and Proof Reading), A model CV writing, mentioning of Educational Qualification, Projects, Skill Sets, Other Achievements & Personal Information</p> <p><u>Professional Introduction</u></p>



Introduction of self in formal situations, in an interview and over the telephone

Unit 3:

Kinesics

Definition of Kinesics & its importance. Types of Kinesics (eye-contact, gestures, postures, mannerism and facial expressions) & its practical aspects

Presentation Skills

Introduction, do's and don'ts of presentation; voice, turn out, body orientation and audio-visual aids

Interpersonal Skills

Interpersonal Skills – Basics, Application areas of Interpersonal skills: Decision – Making, Communications, Team Building, Conflict Management and Negotiation, Crisis Management

Unit 4:

Interview Skills

Personal Interview – Basics, Interview Golden Rules, Objective and Importance of Statement of Purpose (SOP), Content and Structure, FAQs

Group Discussion

The process of conducting GD. Initiation and Conclusion Techniques, The Do's and Don'ts of a GD

Unit 5:

Time Management

Introduction, Time Management – Planning: The common time wasters, Scheduling: Overall Schedule, Weekly & Daily Schedule, Prioritizing: Important versus Urgent, Multi-tasking

Goal Setting

Setting Career Goals, Action Plan & Measures to achieve career goals, Anticipating Career Challenges and Utilizing Opportunities, Suggested approach to Handling Anxiety, Handling unrealistic expectations

<p>2</p> <p>English Language Skills- I</p> <p>Unit 1: Understanding the importance of the four language skills – Reading, Writing, Listening and Speaking.</p> <p>1.1 Importance of language skills in developing communication skills.</p> <p>1.2 Reading and Writing skills</p> <p>1.3 Listening and Speaking</p> <p>1.4 The correct usage of grammar and punctuation in attaining the four skills</p>	<p>English Language Skills</p> <p>1. Poems</p> <ul style="list-style-type: none"> - <i>The Road Not Taken</i>- Robert Frost - <i>If</i>- Rudyard Kipling - <i>Night of the Scorpion</i>- Nissim Ezekiel <p>2. Short Stories/ Essays</p> <ul style="list-style-type: none"> - <i>Draupadi</i>- Maheswata Devi - <i>Shooting an Elephant</i>- George Orwell - <i>The Gift of the Magi</i>- O. Henry - <p>3. Grammar and Vocabulary</p> <ul style="list-style-type: none"> - Sentence (Sentence as a self-contained
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1.5 Testing the four language skills – Reading, writing, speaking and listening

Unit 2: Understanding the importance of Story telling

- 2.1 Short stories – The Bridge towards the world of creativity and humanitarianism.
- 2.2 Happy Prince
- 2.3 Punishment
- 2.4 The Photograph
- 2.5 Presentation on story telling

Unit 3: Understanding the significance of Essays

- 3.1 Technology for mankind
- 3.2 Spoken English Broken English
- 3.3 Formal essays and Informal essays

Unit 4: Poetry as the mode for studying the Human Values

- 4.1 *The World is too much with us*
- 4.2 *The Charge of the Light Brigade*
- 4.3 *On Killing a tree*
- 4.4 *Night of the Scorpion*
- 4.5 *Dad*

Unit 5: Communication skills

- 5.1 Letter Writing
- 5.2 Making CVs and Job Application
- 5.3 Comprehension
- 5.4 Group Discussion
- 5.5 Presentation skills
- 5.6 Common Errors in English Grammar

unit - various types of sentence - simple - compound - complex - declaratives - interrogatives - imperatives - exclamatives).

- Clause (main and subordinate clauses - noun clauses - relative clauses - adverbial clauses - finite and non-finite clauses)
- Active to Passive and vice versa - Direct to Indirect and vice versa - Degrees of Comparison, one form to the other.
- Phrase (various types of phrases - noun, verb, adjectival and prepositional phrases.)
- Remedial Grammar (error spotting - errors in terms of specific grammatical concepts like constituents of sentences - parts of speech - concord - collocation - sequences of tense)
- Vocabulary Extension (One Word Substitution, Synonym & Antonym)
- Punctuation
- Common Errors in English Grammar

4. Communication Skills:

- Personal essay
- Letter Writing
- Comprehension
- Script Writing
- Writing blog
- Presentation on any topic (Extempore)
- News Reading
- Group Discussion
- Debate

3

English Language Skills- II

Unit I: English Language and its Application

- i. Introduction on English Language Skills
- ii. Four Skills – Reading, Writing, Listening and Speaking
- iii. Nouns, Pronouns
- iv. Active Voice and Passive Voice
- v. Verb: Types of verbs
- vi. Tense
- vii. Identifying common errors in

Technical Writing

1. Communication:

- Language and communication, distinct features of speech, distinct features of writing.

2. Technical Writing:

- Introduction and Definition
- Role of a Technical writer
- Principles of Technical writing
- Writing Skills: Selection of topic- Introduction- development of the argument-transitional and concluding paragraphs- coherence and cohesion- descriptive, narrative, expository and



Prepositions, Adjective, adverbs and conjunctions

Unit II: (Poem)

- i. The Road Not Taken by Robert Frost
- ii. If by Rudyard Kipling
- iii. Futility by Wilfred Owen
- iv. Flute Music by Rabindranath Tagore
- v. A Hot noon in Malabar by Kamala Das

Unit III: (Prose)

- i. Toba Tek Singh by Saadat Hasan Manto
- ii. Shooting an Elephant by George Orwell
- iii. The Gift of the Magi By O. Henry
- iv. Of Studies by Francis Bacon
- v. On Letter Writing by Gardiner

Unit IV: Non-Verbal Communication Skill and its Application

- i. Letter Writing – Introduction
- ii. Writing Enquiries and Quotation Letters, Orders and Acknowledgement letters, Complaint and Adjustment letters
- iii. Problems in E – Mail Communication- Readers' Complaints, Writers' Complaints & General Problems.
- iv. Techniques for writing effective E- Mail & E- Mail Etiquettes.
- v. Writing CV and Job Application

Unit V: Verbal Communication Skill and its application

- i. Oral Presentation and Communication Skill
- ii. Group Discussion
- iii. Importance of GD & The role of Group and Group Participants.
- iv. Non-verbal Communication Clues for GD and their significance.
- v. Debate

argumentative writing.

- Practical (Hands-on) Writing using the above theoretical knowledge

3. Writing models:

- Essay (expansion of ideas, dialogue)
- Letter writing, Report Writing, Notice, Memorandum, Agenda
- Job application, Cover letter, CV, e-mail
- Academic writing (note-making, paraphrasing, summary writing, survey, questionnaire)

4. Critical Writing for Specific Purposes (In English and Regional languages)

- Reviews of Books
- Review of Movies

5. Writing for Magazines:

- Identifying different types of magazines, identifying their target audience
- Magazine cover content (Taglines and captions)
- The use of imperatives, use of questions in Cover lines
- Use of rhyming and alliteration
- The use of specific verb forms used to express future
- Use of images in narrating a story

Business Communication

Business Communication

Unit 1:

UNIT-I



- Communication skills
- Barriers to communication skills
- Verbal communication
- Non-Verbal communication
- Employment Communication

Unit 2:

- Office order/Office Circular
- Memorandum
- Notice, Agenda, Minutes of Meeting
- Report Writing

Unit 3:

- Preparing CV
- Job Interviews
- E-mail writing
- Telephonic interviews

Unit 4:

- Group Discussion
- Case Studies

- 1.1 Communication: Basics of Communication, Components & Factors, Levels of Communication
- 1.2 Non-verbal Communication
- 1.3 Barriers to Communication and methods to overcome
- 1.4 Principles of effective communication
- 1.5 Communicating professional self: in workplace, in an interview

UNIT-II:

- 2.1 Types of Workplace Business Correspondence
- 2.2 Business Letters: Components and Layout
- 2.3 Memo Writing: Context, Structure and Usefulness
- 2.4 Notice, Agenda and Minutes of Meeting
- 2.5 Employment Communication: Resume writing, Job application & Interviews
- 2.6 E-mail Communication: Popularity & Problems, Techniques, Etiquette, Typography

UNIT-III:

- 3.1 Business Reports: Its types, features and importance
- 3.2 Structure of Reports: Report preliminaries, Main body, Report Supplements
- 3.3 Gathering Information: Conducting survey, Sampling Methods, Development of Questionnaire
- 3.4 Organization of the Material: Principles of organization, types of outline and format

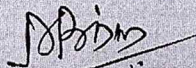
UNIT-IV:

- 4.1 Oral Communication: Preparation, Structure and Planning
- 4.2 Mastering the techniques of oral delivery
- 4.3 Rehearsing presentation and guidelines for final speech
- 4.4 Ways to Handle Questions & Answers
- 4.5 Guidelines for preparing audio-visual aids in presentation

UNIT-V:

- 5.1 Listening Skills
- 5.2 Group Discussion: Introduction, Do's & Don'ts
- 5.3 Business Etiquettes
- 5.4 Corporate Grooming

Signatures of Members of BOS



Prof. Mousumi Biswas
Principal,
Faculty of Liberal Arts
(Chairperson)



Dr. Pramod K. Nayar,
Professor, Department of English,
University of Hyderabad
(External BoS Member)





Dr. Gitanjali Roy
Assistant Professor,
Department of English,
Faculty of Liberal Arts.
(Member Secretary).



Dr. Aditya Ghosh,
Assistant Professor,
Department of English,
Faculty of Liberal Arts.
(Internal Member)



Dr. Madhumita Chakraborty,
Assistant Professor,
Department of English,
Faculty of Liberal Arts.
(Internal Member)

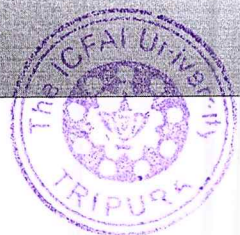


Dr. Thingham Anne,
Assistant Professor,
Department of English,
Faculty of Liberal Arts.
(Internal Member)

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Ref. No. IUT/FLA/AY23-24/Acad.Affairs/Pol.Sc./01

Date: 05.02.2024

Minutes of the BOS Meeting Date: 05.01.2024 Faculty of Liberal Arts (Political Science)

The 1st meeting of the Board of Studies (BOS) of the Department of Political Science, Faculty of Liberal Arts was convened on 05.01.2024 at 11.00am in the online mode. Dr. Gitanjali Roy chaired the meeting and has introduced the session.

Members present in the meeting:

1. Dr. Gitanjali Roy (Coordinator & Assistant Professor, Department of English, Faculty of Liberal Arts)- Member Secretary
2. Dr. Aditya Ghosh (Assistant Professor, Department of English, Faculty of Liberal Arts)
3. Dr. Jashim Uddin (Assistant Professor, Department of Political Science, Faculty of Liberal Arts)
4. Prof. Guriya Paul (Assistant Professor, Department of Political Science, Faculty of Liberal Arts)
5. Dr. Pratip Chattopadhyay (Head of Department & Associate Professor, Department of Political Science, University of Kalyani)

Invited Members:

1. Prof. Dr. Shubhasish Chatterjee (Dean, Academic Affairs, ICFAI University Tripura)

Agenda of the meeting:

1. Structure of the Political Science courses in the NEP-4 years Degree Structure.
2. Syllabus revision of BA-Political Science Minor courses (Sem-I, Sem-II, Sem-III).
3. Introduction of Interdisciplinary course of Political Science.
4. Introduction of Value Added Course of Political Science.

Minutes of the Meeting:

SL No.	Particulars
1	Agenda 1: Structure of the Political Science courses in the NEP-4 years Degree Structure. Resolution: <ul style="list-style-type: none">• Dr. Jashim Uddin elaborately presented the structure of the Political Science Course based on NEP 4 years and it was confirmed to be accurate by the BOS member.
2	Agenda 2: Syllabus revision of BA-Political Science Minor courses (Sem-I, Sem-II, Sem-III)





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Resolution 2: <ul style="list-style-type: none">• Dr. Jashim Uddin elaborately presented the syllabus revision of BA-Political Science Minor courses (Sem-I, Sem-II, Sem-III).• The courses that have been newly added into Political Science minor curriculum as per NEP guideline were presented along with the detailed syllabus. It was also mentioned that the syllabus of these courses have been designed by faculty members of the concerned discipline and referring to the UGC course guideline.
Agenda 2A: Syllabus revision of BA-Political Science Minor courses (Sem-I) 'Indian Government and Politics'
Resolution: <ul style="list-style-type: none">• Dr. Pratip Chattopadhyay accepted Indian Government and Politics to be taught in Semester I as a minor course in Political Science.• Dr. Pratip recommended adding Federalism-Recent Trends in Post-Coalition Era, National and Regional Political Parties - Ideologies and Programmes in Unit-V.• Dr. Pratip also suggested adding Election Commission of India - Composition, Function and Electoral reforms in unit V.• Dr. Pratip suggested to include Local Self Government - 73rd and 74th Amendment Act; Select Case Studies of Panchayati Raj Institutions in unit V.
Agenda 2B: Syllabus revision of BA-Political Science Minor courses Sem-II), 'Political Theory'
Resolution: <ul style="list-style-type: none">• Dr. Pratip Chattopadhyay accepted Political Theory to be taught in Semester II as a minor course in Political Science.• Dr. Pratip recommended adding Feminism in Unit –IV instead of in Unit-I in Political Theory.
Agenda 2C: Syllabus revision of BA-Political Science Minor courses (Sem-III), 'Western Political Thought'
Resolution: <ul style="list-style-type: none">• Dr. Pratip Chattopadhyay recommended Western Political thought to be taught in Semester III as a minor course in Political Science.• Dr. Pratip also suggested to add in Authoritative Democracy (Post Covid period) in Unit-III.





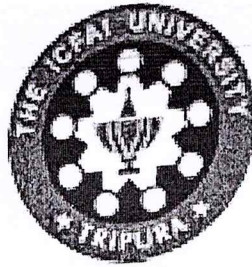
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	<ul style="list-style-type: none">• Dr Pratip, recommended, Montesquieu- Theory of separation of power should be included in Unit-III.• Dr. Pratip also recommended adding Immanuel Kant and Theory of Objectivity after J.S Mill in Unit-IV.• Dr. Pratip also suggested adding Dialectical materialism before Historical materialism in Unit-IV.
3	<p>Agenda 3: Introduction of 'Interdisciplinary course' of Political Science, (SEM-II), 'Constitution of India'</p> <p>Resolution</p> <ul style="list-style-type: none">• Dr.Pratip Chattopadhyay suggested the Interdisciplinary course titled 'Constitution of India' to be changed and kept as 'Indian Politics: Structure and Process'. As suggested by Dr. Gitanjali Roy, since this paper is of wide interest of students coming from different fields were they hold their major paper as either English or Psychology, the students have their due interest in competitive exam too, especially TCS/TPS conducted by TPSC. So, it's preferable to keep the title same as also suggested by Dr. Jashim and Prof. Guriya Paul and looking into the perspective suggested and interest of students, Dr. Pratip Chattopadhyay also agreed with the same.• Dr. Pratip suggested the title of the first unit will be 'Indian Constitution' instead of "constitution structure and principles". DrPratip also recommended to remove the meaning and importance of constitution and citizenship from Unit-I.• Dr. Pratip suggested adding sources and amending the constitution. And to add fundamental rights, fundamental duties, and directive principles of state policy from Unit II to Unit I.• Dr. Pratip recommended the title of the second will be 'Executive in India' instead of 'Fundamental Rights and Directive Principles'.• Dr. Pratip advised adding the president and parliament of India instead of the president's election and power. He also recommended removing center-state relations from Unit II. He also advised adding the governor, chief minister, and council of ministers from Unit III to Unit II.• Dr. Pratip suggested the title of the third unit should be titled 'Judiciary in India' instead of the government of the Union.• Dr. Pratip adding to the Supreme Court the appointment, tenure, and functions of the Chief Justice and judges. High Court: Appointment, tenure, and functions of Chief Justice and Judges.• Dr. Pratip recommended the title of the 4th unit will be 'New Issues in Indian Politics' instead of State Executives.• Dr. Pratip suggested adding the Election Commission of India and Electoral





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Reforms, Niti Aayog: Composition and Functions.

- Dr. Pratip also suggested adding Federalism: Nature and Trends, the National and State Human Rights Commission, and Citizenship.

4

Agenda 4: Introduction of 'Value Added Course' of Political Science, (SEM-II), 'Indian Polity & Economy'

Resolution:

- Dr. Pratip Chattopadhyay suggested the title of the Value Added Course will be **'Indian Politics at Seventy Five' instead of Indian Polity and Economy.**
- Dr. Pratip recommended the title of the first unit should be **'Revisiting the Constitution of India'** instead of 'Constitution Structure and Principles'.
- Dr. Pratip advised removing the making of the Indian Constitution, salient features of the Indian Constitution, and adding **the Preamble, Secularism, Privileges of Members of Parliament, Article 370 and its Abrogation, and Fundamental Rights of Minorities.**
- Dr. Pratip recommended the title of the second unit should be **'Political Sociology'** instead of 'Fundamental Rights and Directive Principles'.
- Dr. Pratip advised adding **caste, language, religion, social movements (environment, women, LGBT), and demand for smaller states in unit-II.** Dr. Pratip also recommended removing Fundamental Rights and Directive Principles of State Policy from this unit.
- Dr. Pratip recommended the title of the third unit will be **'New Indian Economy'** instead of 'planning commission and five-year plan'.
- Dr. Pratip advised removing the history of the planning commission and the five-year plan and adding **the New Economic Policy 1991, Covid and Atmnanir bhar Economy, Start-ups, MSMEs, and Supply Chain, and Foreign Direct Investment.**
- Dr. Pratip suggested the title of the fourth unit will be **'Indian Foreign Policy'** instead of 'Indian Economy after 1991'.
- Dr. Pratip advised to remove LPG in the Indian Economy, NITI Aayog, and to add **Principles: Panchsheel to Panchmrit, India and the Multipolar World, India, and the G-20 Presidency, India in the United Nations.**





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Revised Syllabus

INDIAN GOVERNMENT AND POLITICS

SEM – I

Unit – I Framing of the Indian Constitution

1. Composition and role of the constituent Assembly
2. Philosophy of the Constitution, Preamble
3. Fundamental Rights and Fundamental Duties.
4. Directive principles of State policy

Unit - II Union and State Executive

1. Union Executive - President, Vice President, Prime Minister and Council of Ministers
2. State Executive - Governor, Chief Minister and Council of Minister

Unit – III Union and State Legislature

1. Union Legislature- The Lok Sabha ,The Rajya Sabha , Law Making Procedure
2. State Legislature- The Legislative Assembly and The Legislative Council
3. Role of Speaker

Unit – IV The Judiciary

1. Supreme Court and High Court
2. Judicial Review and Judicial Activism
3. Public Interest Litigation

Unit - V – Political process

1. Federalism- Recent trends in Post colonial era
2. National and Regional Political Parties - Ideologies and Programmes.
3. Election Commission of India - Composition, Function and Electoral reforms
4. Local Self Government - 73rd and 74th Amendment Act; Select Case Studies of Panchayati Raj Institutions.

POLITICAL THEORY

SEM- II

UNIT-1: Introduction to Political Theory

1. Meaning of Politics and Political Theory
2. Traditions of Political Theory: Liberal, Marxist, Anarchist and Conservative
3. Approaches to Political Theory: Normative, Historical, Behaviouralism and Post-Behaviouralism.

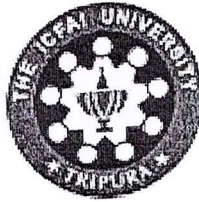
Unit II: Basic concepts in Politics

1. Liberty, Equality and Justice.
2. Theories of origin of State and concept of sovereignty.
3. Theories of nature of State: Individualist, Idealist, Marxist; Rights, Citizenship and Law.

UNIT-III: Political Theory and Practice

1. Democracy: Liberal and Marxist.
2. Procedural Democracy and its critique
3. Deliberative Democracy, Authoritative Democracy, (Post Covid period)





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UNIT-IV: Theories of Social change

1. Fabian theory of Evolution
2. Marxian theory of Revolution; Socialist and Non - Socialist Revolution-
3. Violence and Revolution.
4. Feminism

WESTERN POLITICAL THOUGHT SEM - III

UNIT I: Greek Political Thought

1. Plato: Republic – Justice, Communism, Education and Ideal State.
2. Aristotle: Politics – State- Ideal and Polity; Government, Citizenship, Slavery and Revolution.

UNIT II: Transition Period

1. St. Augustine – ‘City of God’.
2. St. Thomas Aquinas – Theory of Law; Sainted Aristotle.
3. Church and State Controversy – Marsilius of Padua.
4. Niccolo Machiavelli – ‘Prince’
5. Montesquieu- Theory of separation of power.

UNIT III: Social Contract Theory

1. Thomas Hobbes – Absolute Sovereignty, State and Society.
2. John Locke – Limited Government, Theory of Property.
3. Jean Jacques Rousseau – General Will and Popular Sovereignty.

UNIT IV: Utilitarian, Liberal and Marxian Thought:

1. Jeremy Bentham – Utilitarianism; Hedonism.
2. John Stuart Mill – Liberty and Representative Government.
3. Immanuel Kant and Theory of Objectivity
4. Hegel – History and Dialectic; State.
5. Karl Marx – Historical Materialism; Dialectical materialism, Class Struggle and Revolution.

‘Interdisciplinary course’ ‘CONSTITUTION OF INDIA SEM-II

Unit I- Indian Constitution'

1. Constitution of India - Sources, Making, Features and Preamble
2. Fundamental Rights and Duties
3. Directive Principles of State Policy
4. Amendment Procedure of Constitution

Unit II -'Executive in India'

1. President and Parliament of India - Lok Sabha and Rajya Sabha - Composition, Committee System
2. Prime Minister and Council of Ministers - Position and Functions
3. Governor, Chief Minister and Council of Ministers - Position and Functions





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Unit III - 'Judiciary in India'

1. Supreme Court - Appointment, tenure and functions of Chief Justice and Judges
2. High Court - Appointment, tenure and functions of Chief Justice and Judges

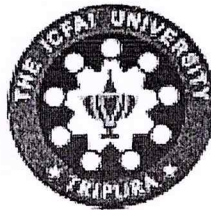
Unit IV - 'New Issues in Indian Politics'

1. Election Commission of India and Electoral Reforms
2. Niti Aayog - Composition and Functions
3. Federalism - Nature and Trends
4. National and State Human Rights Commission
5. Citizenship

'Value Added Course'

Offered Syllabus	Suggested Syllabus
<p><u>INDIAN POLITY AND ECONOMY</u> <u>SEM-II</u></p> <p>Unit – 1 Constitution – Structure and Principles</p> <ol style="list-style-type: none">1. Making of Indian Constitution2. Salient features of Indian Constitution <p>Unit – II Fundamental Rights and Directive Principles</p> <ol style="list-style-type: none">1. Fundamental Rights.2. Directive Principles of State policy <p>Unit – III Planning Commission & Five Year Plan</p> <ol style="list-style-type: none">1. History of planning commission2. Five Year plan <p>Unit- IV Indian Economy after 1991</p> <ol style="list-style-type: none">1. LPG in Indian economy2. NITI Aayog	<p><u>INDIAN POLITICS AT SEVENTY FIVE</u> <u>SEM-II</u></p> <p>Unit I- Revisiting Constitution of India</p> <ol style="list-style-type: none">1. Preamble2. Secularism3. Privileges of Member of Parliament4. Article 370 and its Abrogation5. Fundamental Rights of Minorities <p>Unit II -Political Sociology</p> <ol style="list-style-type: none">1. Caste2. Language3. Religion4. Social Movements(Environment, Women, LGBT)5. Demand for Smaller States <p>Unit III - New Indian Economy</p> <ol style="list-style-type: none">1. New Economic Policy 19912. Covid and Atmnanirbhar Economy3. Start-ups, MSMEs and Supply Chain4. Foreign Direct Investment <p>Unit IV- Indian Foreign Policy</p> <ol style="list-style-type: none">1. Principles - Panchsheel to Panchmrit2. India and Multipolar World3. India and G-20 Presidency4. India in United Nations





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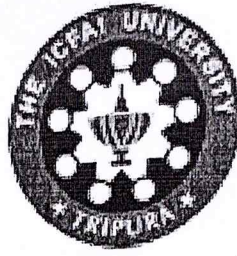
Unit IV - 'New Issues in Indian Politics'

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'Value Added Course'

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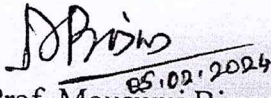
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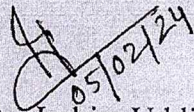
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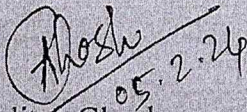
Dr. Pratip Chattopadhyay
Associate professor
Department of Political Science,
Kalyani University,
(External BOS Member)



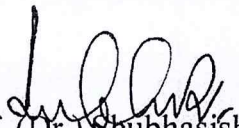
Prof. Mousumi Biswas
Principal,
Faculty of Liberal Arts,
(Chairperson)



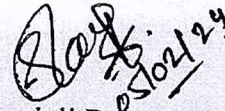
Dr. Jashim Uddin,
Assistant Professor,
Faculty of Liberal Arts
(Internal Member)



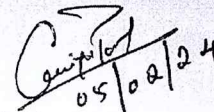
Dr. Aditya Ghosh
Assistant Professor,
Faculty of Liberal Arts,
(Internal Member)



Prof. (Dr.) Shubhasish Chatterjee
Dean, Academic Affairs,
ICFAI University, Tripura.

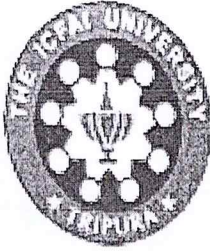


Dr. Gitanjali Roy
Assistant Professor,
Department of English,
Faculty of Liberal Arts,
(Member Secretary)



Prof. Guriya Paul
Assistant Professor,
Faculty of Liberal Arts
(Internal Member)



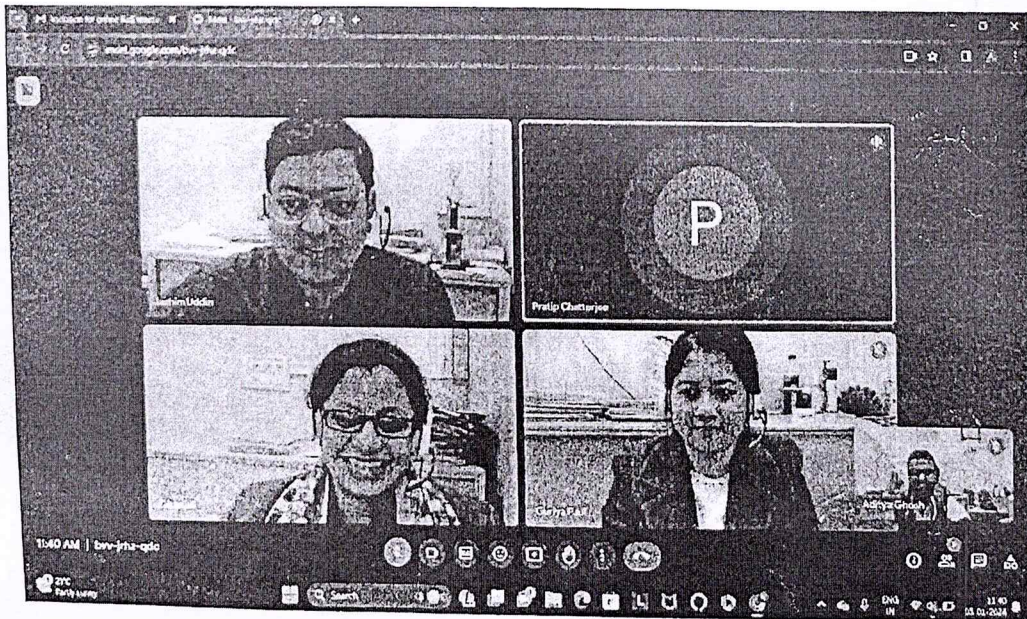


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Tel: 0381 – 2865752/55, Fax: 0381 – 2865754, Website: www.iutripura.edu.in

Screenshots of BOS (Political Science)



3:49 PM

 Gmail

Gitanjali <gitanjaliroy@iutripura.edu.in>

Approval & Signature for Minutes of BoS (Political Science)

4 messages

Mon, Mar 11, 2024 at 5:46 PM

Gitanjali <gitanjaliroy@iutripura.edu.in>

To: chatterjee23_pratip@yahoo.co.in

Cc: mousumi biswas <mousumi.biswas@iutripura.edu.in>, Jashim Uddin <jashimuddin@iutripura.edu.in>, Guriya Paul <guriyapaul@iutripura.edu.in>

Dear Sir,


Greetings from the Faculty of Liberal Arts. Hope you are doing good.

With reference to the BoS-Political Science meeting held on 05/02/2024, attached within is the Minutes and the detailed syllabus of sem-1, sem-II, sem-III of BA-Political Science, for your kind reference.

I kindly request you to approve the same by sharing your digital signature.

For any query, please feel free to contact the undersigned.

Regards,
Gitanjali,
FLA, IUT.
Contact- 09774734852.

 **BoS Political Science (1).pdf**
886K

Fri, Apr 5, 2024 at 3:37 PM

Gitanjali <gitanjaliroy@iutripura.edu.in>

To: chatterjee23_pratip@yahoo.co.in

Cc: mousumi biswas <mousumi.biswas@iutripura.edu.in>, Jashim Uddin <jashimuddin@iutripura.edu.in>, Guriya Paul <guriyapaul@iutripura.edu.in>

Dear Sir,

As per the telephonic conversation, forwarding you the mail. Request you to kindly do the needful.

Regards,
Gitanjali.
[Quoted text hidden]

Fri, Apr 5, 2024 at 3:46 PM

Pratip Chatterjee <chatterjee23_pratip@yahoo.co.in>

Reply-To: Pratip Chatterjee <chatterjee23_pratip@yahoo.co.in>

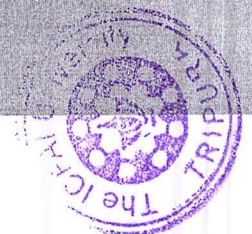
To: gitanjaliroy@iutripura.edu.in

I hereby approve minutes of the meeting. I am unable to put my e signature so please consider this email as my consent to the minutes of the meeting.

Yahoo Mail: Search, organise, conquer

On Fri, 5 Apr 2024 at 3:38 pm, Gitanjali <gitanjaliroy@iutripura.edu.in> wrote:

[Quoted text hidden]



4/5/24, 3:49 PM

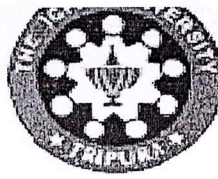
ICFAI University, Tripura Mail - Approval & Signature for Minutes of BoS (Political Science)

To: Pratip Chatterjee <chatterjee23_pratip@yahoo.co.in>

Thank you for your response.

[Quoted text hidden]





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Ref. No. IUT/FLA/AY23-24/Acad.Affairs/Sociology/01

Date: 05.02.2024

Minutes of the BOS Meeting Date: 10/01/2024 Faculty of Liberal Arts(Sociology)

The 9th meeting of the Board of Studies (BOS)- Sociology under the Faculty of Liberal Arts was convened on 10/01/2024 at 11:00 am in the online mode. Prof. Mousumi Biswas, Principal, FLA chaired the meeting.

Members present in the meeting:

1. Prof. Mousumi Biswas (Principal, Faculty of Liberal Arts) -Chairperson.
2. Dr. Gitanjali Roy (Assistant Professor, Department of English, Faculty of Liberal Arts)- Secretary
3. Dr. Aditya Ghosh (Assistant Professor, Department of English, Faculty of Liberal Arts)
4. Dr. AnkitaPatra (Assistant Professor, Department of Sociology, Faculty of Liberal Arts)
5. Ms. Protima Brahma (Assistant Professor, Department of Sociology, Faculty of Liberal Arts)
6. Dr. Kaberi Das (Assistant Professor, Department of Sociology, Gauhati University)
7. Dr. Papesh Kumar Lenka(Assistant Professor, Department of Sociology,Utkal University)

Invited Members:

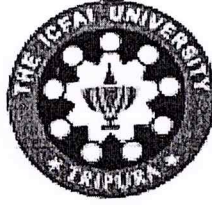
1. Prof. Dr. Shubhasish Chatterjee (Dean, Academic Affairs, ICFAI University Tripura)

Agenda of the meeting:

1. Approval of the newly developed Structure of the Minor Elective courses of Sociology in the NEP-4 years Degree.
2. Approval for designed syllabus of the courses in the newly developed 4 Year Degree structure with credit distribution as per NEP 2020.

Sl.No.	PARTICULARS
1.	<p>Agenda 1: Approval of the newly developed Structure of the Minor Elective courses of Sociology in the NEP-4 years.</p> <p>Resolution:</p> <p>Dr. Gitanjali Roy, Member Secretary, introduced the Members of BOS.</p> <p>Then, Dr. AnkitaPatra, Assistant Professor, elaborately presented the program structure. The External BoS members approved the title of the Minor Elective- Sociology course based on NEP-4 years.</p>
2.	<p>Agenda 2: Approval for designed syllabus of the course in the newly developed Program structure (4-Year Degree) with credit distribution as per NEP 2020.</p>





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Resolution:

Dr. Ankita Patra gave the detailed presentation of the syllabus of Minor Elective courses of Sociology of Sem-I, Sem-II, Sem-III, Sem-IV.

Agenda 2 (a): Approval of the Revision of the syllabus for Minor Elective Sociology Sem 1- Introduction to Sociology.

Resolution:

- Dr. Kaberi Das suggested introducing Sociological perspective in the Unit 1.
- Dr. Papesh Kumar Lenka suggested giving a brief introduction of Sociological Imagination under unit 1 and then Dr. Kaberi Das seconded the suggestion.
- Dr. Kaberi Das suggested labeling the second unit as Sociological concept. Dr. Papesh agreed to Dr. Kaberi's suggestion.

Agenda 2 (b): Approval of the Revision of the syllabus for Minor Elective Sociology Sem 2 – Foundation of Social Thought.

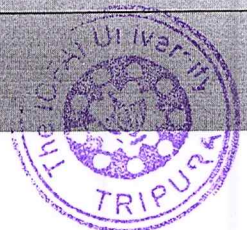
Resolution:

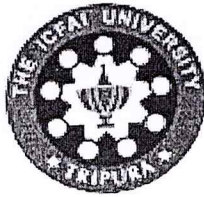
- Dr. Kaberi Das suggested that 'Division of Labour' needs to be introduced before 'Suicide' under second unit. Dr. Kaberi Das seconded the view.
- Dr. Kaberi Das suggested the readings of Andre Beteille for the study of historical approaches to the study of Indian Society under the fourth unit.
-

Agenda 2 (c): Approval of the Revision of the syllabus for Minor Elective Sociology Sem 3- Indian Society.

Resolution:

- Dr. Kaberi agreed to Dr. Ankita's suggestion to replace 'Evolution of Indian Society' with the 'Composition of Indian society Religious, Racial and Linguistic'; Threats to Unity in diversities in India: Communalism, Linguism and Regionalism in Unit 1.
- Dr. Ankita suggested to remove Parochialisation and Universalisation of unit 3. Dr. Kaberi Das and Dr. Papesh Kumar Lenka agreed the suggestion.
- Dr. Papesh suggested including 'Poverty, Unemployment and Population' as the content for Social problems in the unit 4. Dr. Kaberi agreed the suggestion.
- Dr. Kaberi Das and Dr. Papesh Kumar Lenka reviewed the updated the syllabus presented by Dr. Ankita Patra and suggested to remove the portions that got repeated in the fourth unit, i.e. 'Social Problems and Upliftment measures.'





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**Agenda 2 (d): Approval of the Revision of the syllabus for Minor Elective Sociology Sem 4-
Social research and methods.**

Resolution:

- Dr. Kaberi Das and Dr. Papesh Kumar Lenka reviewed the existing syllabus and suggested changes in the presence of chairperson of the meeting.
- Dr. Kaberi Das and Dr. Papesh Kumar Lenka suggested to include the 'Subjectivity and Objectivity in Social research' in the unit 1 accordingly and update it.
- Dr. Kaberi Das suggested to separate both the qualitative and quantitative approaches and to label the same as unit 2 and unit 3 respectively. Dr. Papesh also agreed to the suggestion.
- Dr. Kaberi suggested to add data collection and sampling in the unit 3.
- Dr. Papesh suggested including Qi Square and Differential Analysis in the unit 4. Dr. Kaberi and all the members agreed to the suggestion.
- Dr. Kaberi Das and Dr. Papesh Kumar Lenka suggested introducing data collection techniques in the last unit of the syllabus.

Revised Syllabus

SEM 1- INTRODUCTION TO SOCIOLOGY

Unit 1. Meaning, Nature and Scope of Sociology.

Sociological Perspective, Sociological Imagination,
Relationship with other disciplines: Sociology and Anthropology, Sociology and History,
Sociology and Economics, Sociology and Political science, Sociology and Psychology,
Sociology and Jurisprudence.

Unit 2. Introduction to Sociological Concepts

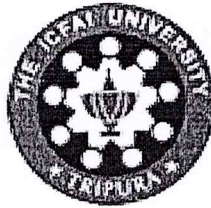
Society, Community, Culture, Group, Norms and Values
Status and Role, Social Structure and Functions.
Social Processes: Associative (Cooperation, Accommodation, Assimilation) and Dissociative
(Conflict, Competition)

Unit 3. Social Institutions

Definition, Characteristics and Functions of Social institutions; Primary Institutions and Secondary
Institutions
Marriage, Family and Kinship
Economy, Education, Politics and Religion



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Unit 4. Social Stratification, Change and Control

Social Stratification: Concept and Bases; Forms of Social Stratification – Caste, Class, Power and Gender

Social Change: Meaning and type; evolution and revolution, progress and development factors of Social Change

Social Control: Concept, Definition, Forms and Agencies of Social Control.

SEM 2- FOUNDATION OF SOCIAL THOUGHT

1) Introducing Sociological Thought

Transition from social-philosophical thought to sociological thought

Emergence of sociology as a new discipline : Enlightenment and its impact on thinking and reasoning, bearing of French Revolution and industrial revolution on emergence of sociology as a discipline.

The Pioneers: i) Comte – Positivism, The Law of Three Stages.

ii) Spencer –Theory of Social Evolution, Organic Analogy, Social Darwinism

2) Classical Sociology

Marx- Dialectical-Historical Materialism, Class Struggle (Class Conflict).

Durkheim – Division of Labour, Social Fact, Suicide, and Religion.

Weber – Social Action, Ideal type, Authority, The Protestant Ethic and Spirit of Capitalism

3) Sociological theory: Major Schools

Functionalism

Conflict

Interactionism

4) Indian Sociology

- Development of sociological thought in India –A brief account.

- Approaches to the study of Indian Society:

i) Indological

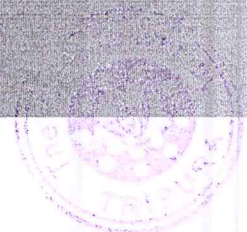
ii) Historical

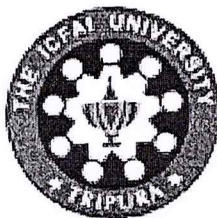
iii) Dialectical (Marxist)

SEM 3 -INDIAN SOCIETY

Unit 1. Composition of Indian Society: Religious, Racial and Linguistic.

Threats to Unity in diversities in India: Communalism, Linguism and Regionalism





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Unit 2. Indian Social Institution: Marriage, Family, Kinship, Caste, and Class

Unit 3. Processes of Social Mobility and Social Change in India: Sanskritization, Westernization, Modernization, Urbanization, and Globalization.

Unit 4. Social Issues and Problems: Women in India; Social Problems: poverty, unemployment, Population Changing Status and Empowerment.
Scheduled Tribe (ST), Scheduled Caste (SC) and Other Backward Class (OBC):
Upliftment Measures.

SEM 4- SOCIAL RESEARCH AND METHODS

Unit 1. Social Research

Definition, Nature and Significance of Social Research

Objectivity and Subjectivity in Social Research.

Research Designs,

Steps in Social Research

Types of Social Research basic and applied, historical and empirical, descriptive, exploratory, explanatory, experimental.

Unit 2. Qualitative Social Research methods

Observation, Ethnography, Case study, Content analysis

Unit 3. Quantitative methods

Sources of Data: i) Primary ii) Secondary Data

Probability and Non-Probability

Unit 4. Statistical Methods:

Measures of Central Tendencies: Mean, Median and Mode.

Chi Square and Differential Analysis.





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Signatures of Members of BOS

Dr. Kaberi Das.
Assistant Professor
Dept. Of Sociology
Gauhati University
(External Members)

Dr. Papesh Kumar Lenka
Assistant Professor
Dept. Of Sociology
Utkal University
(External Members)

Prof. Mousumi Biswas
Principal
Faculty of Liberal Arts
(Chairperson)

Prof. Shubhasish Chatterjee
Dean, Academic Affairs,
ICFAI University, Tripura.

Dr. Gitanjali Roy
Assistant Professor,
Faculty of Liberal Arts.
ICFAI University, Tripura.
(Member Secretary)

Dr. Ankita Patra,
Assistant Professor,
Faculty of Liberal Arts.
ICFAI University, Tripura.
(Internal Member)

Prof. Protima Brahma
Assistant Professor
Faculty of Liberal Arts.
ICFAI University, Tripura.
(Internal Member)

Dr. Aditya Ghosh
Assistant Professor
Faculty of Liberal Arts.
ICFAI University, Tripura.
(Internal Member)



24, 4:56 PM

M Gmail

Gitanjali <gitanjaliroy@iutripura.edu.in>

Approval & Signature for Minutes of BoS (Sociology)

5 messages

Tue, Mar 12, 2024 at 3:53 PM

Gitanjali <gitanjaliroy@iutripura.edu.in>

To: kaberi.das@gauhati.ac.in

Cc: mousumi biswas <mousumi.biswas@iutripura.edu.in>, protima brahma <protimabrahma@iutripura.edu.in>, "Dr. Ankita Patra" <ankitapatra@iutripura.edu.in>

Dear Sir,


Greetings from the Faculty of Liberal Arts. Hope you are doing good.

With reference to the BoS-Sociology meeting held on 10/01/2024, attached within is the Minutes and the detailed syllabus, for your kind reference.

I kindly request you to approve the same by sharing your digital signature.

For any query, please feel free to contact the undersigned.

Regards,
Gitanjali,
FLA, IUT.
Contact- 09774734852.

 **BOS Sociology final doc.pdf**
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Tue, Mar 12, 2024 at 4:15 PM


Gitanjali <gitanjaliroy@iutripura.edu.in>

To: kaberi.das@gauhati.ac.in

Cc: mousumi biswas <mousumi.biswas@iutripura.edu.in>, protima brahma <protimabrahma@iutripura.edu.in>, "Dr. Ankita Patra" <ankitapatra@iutripura.edu.in>

Sorry for the inconvenience. Please find the attachment and kindly ignore the previous attachment.

[Quoted text hidden]

 **BOS Sociology final doc.pdf**
1000K

Tue, Mar 12, 2024 at 5:42 PM

Kaberi Das <kaberi.das@gauhati.ac.in>

To: Gitanjali <gitanjaliroy@iutripura.edu.in>

Cc: "Dr. Ankita Patra" <ankitapatra@iutripura.edu.in>, mousumi biswas <mousumi.biswas@iutripura.edu.in>, protima brahma <protimabrahma@iutripura.edu.in>

Approved.

[Quoted text hidden]

The sender of this mail is an authorized user of email services of Gauhati University

Wed, Mar 13, 2024 at 9:31 AM

Dr. Ankita Patra <ankitapatra@iutripura.edu.in>

To: Gitanjali <gitanjaliroy@iutripura.edu.in>

Dear Madam,

I approve.

Please find my signature attached with this email.

Hope the size of the signature suffices for the required documents.

Thank you.

<https://mail.google.com/mail/u/0/?ik=a3c97954ed&view=pt&search=all&permthid=thread-a:r8633339043795868205&simpl=msg-a:1-19422938146754...> 1/2



Faculty of Liberal Arts
ICFAI University, Tripura.

Board of Studies (BoS)- Sociology
Virtual Meeting
10th Jan' 2024

Agenda of the meeting

1. Structure of the Sociology course based on NEP-4 years
2. Syllabus revision of BA- Sociology Minor courses (Sem-I, Sem-II, Sem-III)

1	I	Introduction To Sociology (4)
2	II	Foundation of Social Thought (4)
3	III	Indian Society (4)
4	IV	Methods in Social Research (4)
5	V	Contemporary Ecological Theories (4)
6	VI	Contemporary Sociological Theories - II (4)
7	VII	Gender and Society (4)
8	VIII	Environmental Sociology (4)

AGENDA 2: SYLLABUS REVISION





Program Structure for BA English (Honors) Program

Program Structure								
	Sl. No.	Course No.	Semester-I	L P U	Sl. No.	Course No.	Semester-II	L P U
YEAR-I	1	EG111	English Language Skills- 1	3 1 4	1	EG112	English Language Skills- II	3 1 4
	2	PS121/ PSY161	Political Science -1 / Psychology-I	3 1 4	2	PS122/ PSY162	Political Science -II/ Psychology-II	3 1 4
	3	SC131/ EDU101	Sociology-I/ Principles of Education	3 1 4	3	SC132/ EDU521	Sociology-II/ Educational Psychology	3 1 4
	4	EG 141	Anglo Saxon to Medieval Period & Literary Types	3 1 4	4	EG142	Renaissance and Elizabethan Age	3 1 4
	5	EG151	History of English Language, Rhetoric & Prosody	3 1 4	5	EG152	Indian English Literature-I	3 1 4
			TOTAL UNITS	20 Units			TOTAL UNITS	20 Units
	Sl. No.	Course No.	Semester-III	L P U	Sl. No.	Course No.	Semester-IV	L P U
YEAR-II	1	EG213	The Age of Milton & Restoration Period	3 1 4	1	NCT221	Neo-Classical & Transition Age	3 1 4
	2	EG223	Indian English Literature-II	3 1 4	2	ERA221	Romantic Age	3 1 4
	3	PS123/ PSY163	Political Science -III/ Psychology-III	3 1 4	3	PS124/ PSY164	Political Science -IV/ Psychology-IV	3 1 4
	4	SC133/ EDU201	Sociology-III/ Development of Education in Modern India	3 1 4	4	SC134/ EDU202	Sociology-IV/ Evaluation and Guidance in Education	3 1 4
	5	FR 234	Foreign Language	3 1 4	5	PKC233	Introduction to Computers	2 2 4
			TOTAL UNITS	20 Units			TOTAL UNITS	20 Units
	Sl. No.	Course No.	Semester-V	L P U	Sl. No.	Course No.	Semester-VI	L P U
YEAR-III	1	ENG301	Victorian Age	3 1 4	1	ENG305	20 th Century Literature	3 1 4
	2	ENG302	18 th & 19 th Century Fiction and Non- Fiction	3 1 4	2	ENG306	Literary Criticism & Critical Appreciation	3 1 4
	3	ENG303	Linguistics & Phonetics	3 1 4	3	ENG307	Basics of Literary Theory	3 1 4
	4		Advanced Studies in English Literature	3 1 4	4	PKC346	Project	0 0 6
	5		Choice Based Elective Course	3 0 4	5	ENV222	Environmental Studies	4 0 4
			TOTAL UNITS	20 Units			TOTAL UNITS	22 Units

Total Units: 122 Units

Sl. No.	Course No.	Advanced Studies in English Literature (Specialization)	L P U
1	EGH301	American Literature	3 1 4
2	EGH302	Classical Indian Literature	3 1 4
3	EGH303	Contemporary Literature	3 1 4
4	EGH304	World Literature	3 1 4
5	EGH305	North-East Literature	3 1 4
6	EGH306	Literature of Cross- Borders	3 1 4

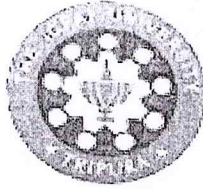
Sl. No.	Elective Courses
1	Economics
2	Sociology
3	Education
4	Political Science
5	Psychology



Faculty of Liberal Arts
BA English Program (As per NEP structure)

4 YEAR PROGRAMME STRUCTURE						
SEMESTER I			SEMESTER II			
Sl	Course Name	Credit Unit	Sl	Course Name	Credit Unit	
YEAR I	Discipline Specific Core		Discipline Specific Core			
	1	Introduction to Literary Studies	4	1	Renaissance and Elizabethan Age	4
	2	Anglo Saxon to Medieval Period , Rhetoric & Prosody	4	2	The Age of Milton & Restoration Period	4
	General Elective		General Elective			
	3	Introduction to Sociology / Indian Government and Politics / Foundations of Psychology / Principles of Education	4	3	Foundation of Social Thought / Political Theory /Psychology of individual Differences / Educational Psychology	4
	Ability Enhancement Courses		Interdisciplinary Courses			
	4	English Language Skills / Modern Office Management	4	4	Constitution of India /Chemistry in Daily life /Value Education & Ethics / Indian Society	3
	Skill Enhancement Courses		Ability Enhancement Courses			
	5	Introduction to Computers / Fundamentals of Public Speaking / Introduction to Library & Information Sciences / Social & Business Etiquettes	2	5	Technical Writing / Linguistic Proficiency in English	3
	Common Value Added Courses		Common Value Added Courses			
	6	Indian Education System / Indian Fine Arts / Introduction to Indian Classical Music	2	6	Sports & Yoga /Photography: Basics & Beyond /Indian Polity and Economy	2
	Total Credit		20	Total Credit		20
	INTERNSHIP					4
TOTAL CREDITS EARNED= 40						
Students exiting the programme after 1st Year will be awarded UG Certificate in the relevant Discipline provided they secure 4 credits in Internship						





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Ref. No. IUT/FLA/AY23-24/Acad.Affairs/Psychology/01

Date: 05.02.2024

Minutes of the Meeting of the BOS(Psychology) dated: 20.01.2024 Faculty of Liberal Arts, ICFAI University, Tripura

The 1st meeting of the Board of Studies(BoS) – Psychology under Faculty of Liberal Arts was held on 20/01/2024 at 10.00 AM in the online mode (Google Meet Platform).

Members present in the meeting (online):

Internal members-

- Prof. Mousumi Biswas (Principal, Faculty of Liberal Arts)- Chairperson
- Dr. Gitanjali Roy (Assistant Professor, Dept. of English, FLA, IUT)- Member Secretary
- Dr. Poonam Mukherjee (Assistant Professor, Dept. of Psychology, FLA, IUT)- HoD
- Dr. Amrita Banerjee (Assistant Professor, Dept. of Psychology, FLA, IUT)

External Members-

- Dr.P.K.Rath, Professor, Centre of Advanced Studies, Department of Psychology, Utkal University, Bhubaneswar, Odisha.
- Dr. Rita Rani Talukdar, Professor & Head, Department of Psychology, Gauhati University, Assam.

Absentees:

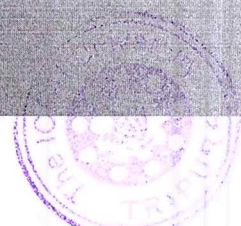
- Dr. Anindita Chaudhuri, Associate Professor, Department of Psychology, Rajabazar Science College, University of Calcutta, Kolkata.
- Dr. Nandita Babu, Professor & Head, Department of Psychology, University of Delhi, Delhi.
- Dr. Urmi Nanda, Professor, School of Arts & Sciences, Ahmedabad University, Gujrat.

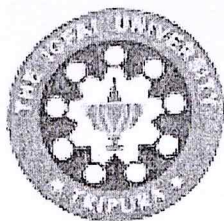
Invited Members:

- Prof. Dr.Shubhasish Chatterjee (Dean, Academic Affairs, ICFAI University Tripura)

Agenda of the meeting-

- Introducing the Psychology Courses of B.A./B.Sc. Psychology-Major and their placing in the 4 Years Degree Structure
- Syllabus revision of B.A./B.Sc. Psychology-Major Courses (Semester- I & II)of the NEP-4 years Degree Structure





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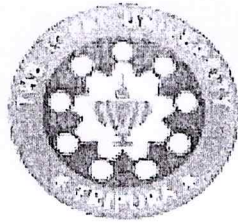
Minutes of the meeting:

Sl. No.	Particulars
1.	Prof. Mousumi Biswas, Principal of FLA greeted the internal and external members of the board and briefed about ICFAI University, Tripura and the Department of Psychology, FLA.
2.	Agenda 1: Introducing the Psychology Courses of B.A./B.Sc. Psychology-Major and their placing in the 4 Years Degree Structure Resolution: Dr. Poonam Mukherjee introduced the courses of B.A./B.Sc Psychology(Major) designed for the NEP-4 years Degree and explained the relatedness of the courses in different semesters.
3.	Agenda 2: 2. Syllabus revision of B.A./B.Sc. Psychology-Major Courses (Semester- I & II) of the NEP-4 years Degree Structure Resolution: 1. Dr. Poonam Mukherjee presented a detailed PPT on the syllabus of 1 st Year B.A./B.Sc Psychology(Major) (Semester- I & II courses) based on NEP-4 years. She explained individual units of all the 4 courses(2 of Sem-I & 2 of Sem-II) based on which the experts suggested some modifications which may be considered for academic year 2024-25. <u>Suggestions/recommendations for Semester-I</u> Course 1 (FOUNDATIONS OF PSYCHOLOGY): <ul style="list-style-type: none">• Dr. Rita Rani Talukdar suggested to replace 'What is Psychology?' by 'Introduction to Psychology'.• Dr. Talukdar also expressed her view in suggesting an elaboration of the topics in all the topics of each and every unit except the 'Statistical Methods for Psychological Research' paper in semester-II.• Dr. Talukdar also suggested to mention 'theories of learning' in unit 3: Learning and Motivation: Principles and applications of Classical conditioning, Operant conditioning, and Observational learning; Cognitive influences on learning; Perspectives on motivation, Types of motivation, Motivational conflicts.• Professor P.K. Rath suggested the same reformation for the Unit-I as suggested by Dr. Talukdar.• Professor P.K. Rath recommended to improve the reading skills of students by making them read more books and creating their interest in areas of research.• Professor P.K. Rath also suggested to start a counselling cell in the Psychology

elaborately pres-
and 4 years and it was confirmed to be

ember-





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department.

Course 2 (PSYCHOLOGY OF INDIVIDUAL DIFFERENCES):

- Dr. Rita Rani Talukdar advised to elaborate the given topics like, 'Definition of personality, its nature and types'.
- Dr. Rita Rani Talukdar recommended to specify the 'models of Emotional intelligence'.
- Dr. Rita Rani Talukdar also suggested to introduce some simpler topics for practical.
- Professor P.K. Rath suggested inclusion of Raven's Progressive Matrices in place of 16 PF, which may be difficult for the beginners.
- Professor P.K. Rath advised to motivate Ph.D. scholars to take the initiative to recreate the usual Psychological scales.

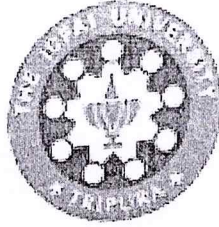
Suggestions/recommendations for Semester-II

Course 1 (PSYCHOLOGY - ISSUES AND APPLICATION)

- Dr. Rita Rani Talukdar suggested to introduce application of Psychology in other relevant fields along with computer applications.
- Dr. Rita Rani Talukdar advised to elaborate and specify the contents of each unit.
- Dr. Rita Rani Talukdar asked to modify and resend the syllabus for reviewing.
- Professor P.K. Rath suggested the application of Psychology in other relevant fields alike Dr. Talukdar.
- Professor P.K. Rath strongly recommended to include Health Psychology as a paper in semester-II.
- Professor P.K. Rath suggested to replace SPSS by 'Statistical Assistant'.

Course 2 (STATISTICAL METHODS FOR PSYCHOLOGICAL RESEARCH)

- Dr. Rita Rani Talukdar suggested to keep the 'statistical methods for psychological research' paper in 1st semester.
- Professor P.K. Rath advised to rename the 'Measures of Central Tendency' as 'Descriptive Statistics- Mean, Median, Mode, SD, AD'.



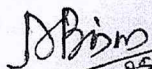
The ICFAI University, Tripura

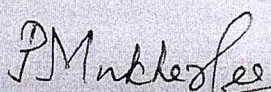
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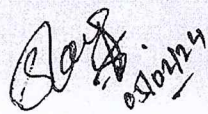
Signatures of the members of BOS

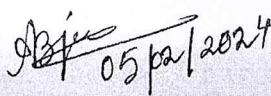
Dr. P.K. Rath,
Professor,
Centre of Advanced Studies,
Dept. of Psychology
Utkal University, Bhubaneswar, Odisha
(External Member)

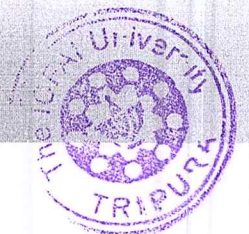

05.02.2024
Prof. Mousumi Biswas
Principal,
Faculty of Liberal Arts
ICFAI University, Tripura
(Chairperson)

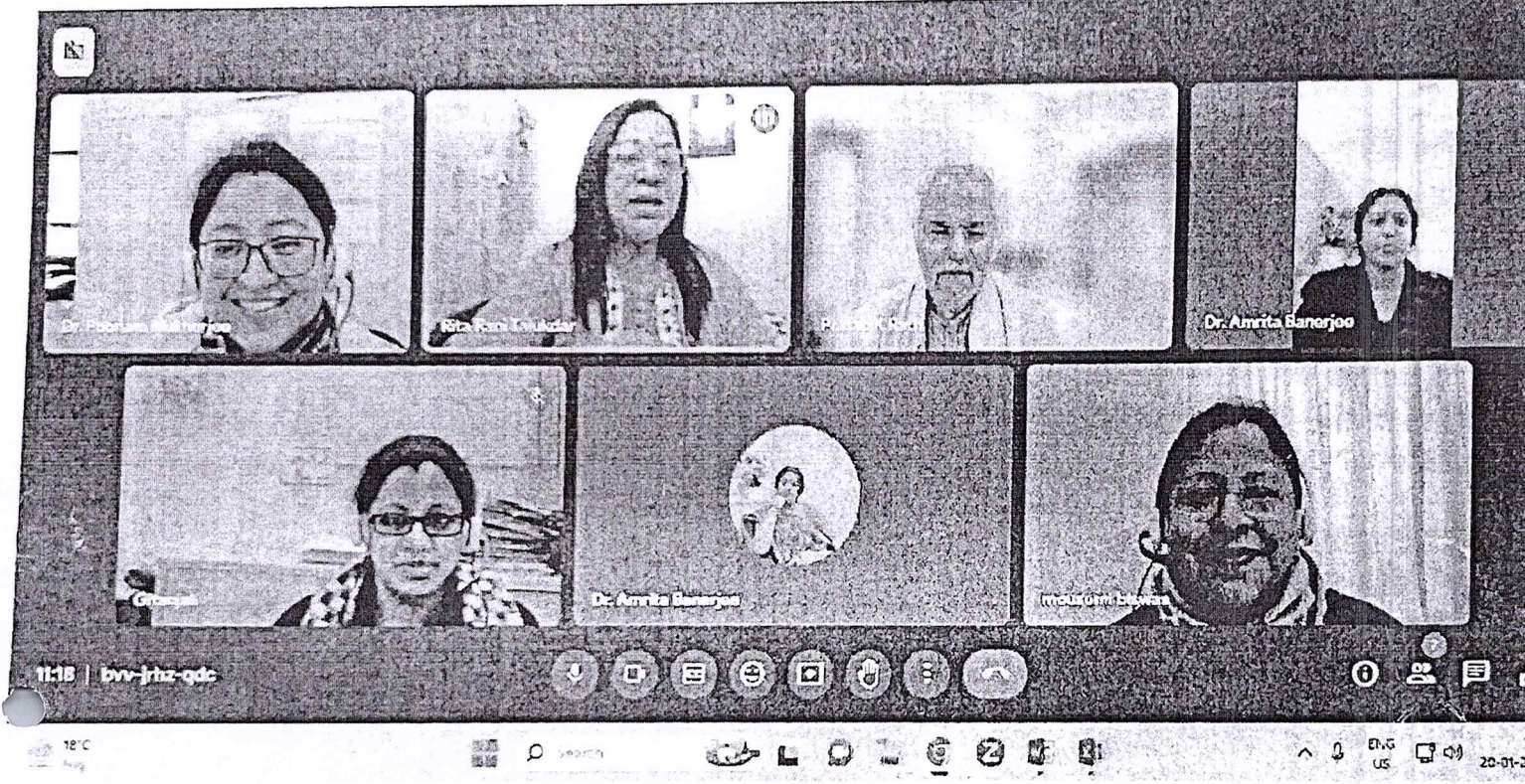

Dr. Poonam Mukherjee 05/2/24
Assistant Professor
Dept. of Psychology
Faculty of Liberal Arts
ICFAI University, Tripura
(Internal Member)

Dr. Rita Rani Talukdar
Professor & Head
Dept. of Psychology
Gauhati University, Assam
(External Member)


Dr. Gitanjali Roy
Assistant Professor
Dept. of English
Faculty of Liberal Arts
ICFAI University, Tripura
(Member Secretary)


05/2/2024
Dr. Amrita Banerjee
Assistant Professor
Dept. of Psychology
Faculty of Liberal Arts
ICFAI University, Tripura
(Internal Member)





Meeting URL: meet.google.com/bvv-jtz-qdc

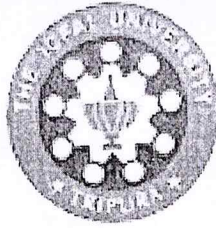
Participants: The ISI University, Google Scholar, ResearchGate | Find

Dr. Poonam Mukherjee (Presenting)

Semester	Major Degree Specific Courses (Core English)	Minor Degree (Science, Public Health, Education/Management)	Interdisciplinary Courses	Ability Enhancement Courses (Language)	Skill Enhancement / Project/ Internship / Dissertation	Value Added Courses	Total Credit
1st YEAR							
I	<ul style="list-style-type: none"> Foundations of Psychology (1) History of Indian Psychology (1) 	<ul style="list-style-type: none"> English for Society (1) OR Issues Governance and Politics (1) OR English for Education (1) OR Business Organization and Management (1) 		<ul style="list-style-type: none"> English Language Skills (1) OR Modern Office Management (1) 	<ul style="list-style-type: none"> Introduction to Computers (1) OR Fundamentals of Public Services (1) OR Introduction to Library & Information Sciences (1) OR Social & Business (Electives) (1) 	<ul style="list-style-type: none"> Radio Production System (1) OR Indian Film Arts (1) OR Introduction to Indian Classical Music (1) 	20
II	<ul style="list-style-type: none"> Psychological Assessment and Applications (1) Statistical Methods for Psychological (1) 	<ul style="list-style-type: none"> Foundations of Social Theories (1) OR Political Theory (1) 	<ul style="list-style-type: none"> Contemporary Issues (1) OR 	<ul style="list-style-type: none"> Technical Writing (1) OR 		<ul style="list-style-type: none"> Speech & Stage (1) OR Photography Basics & Advanced (1) 	

10:13 | bvv-jtz-qdc



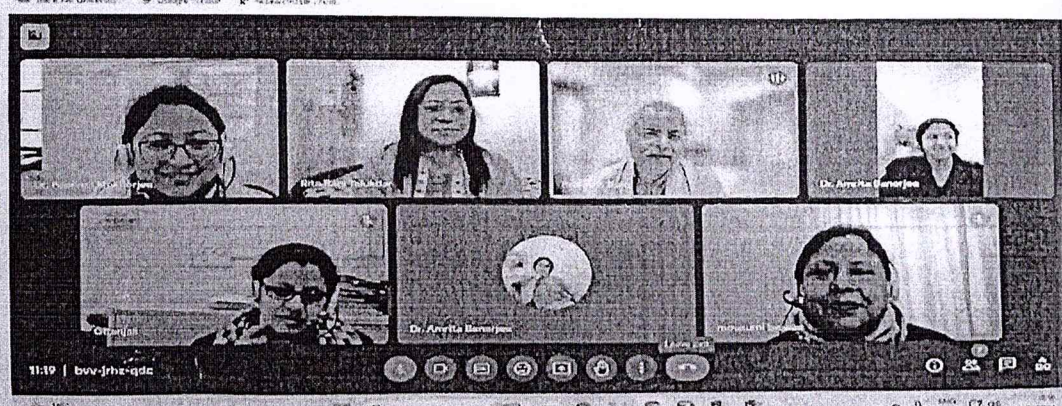
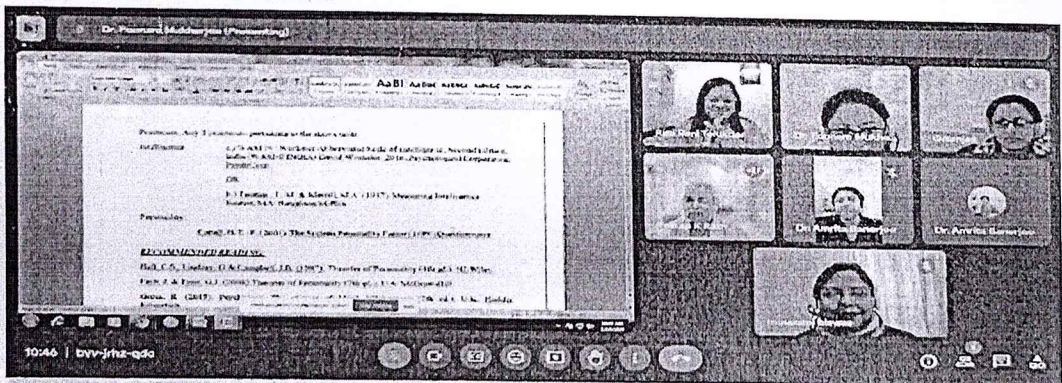
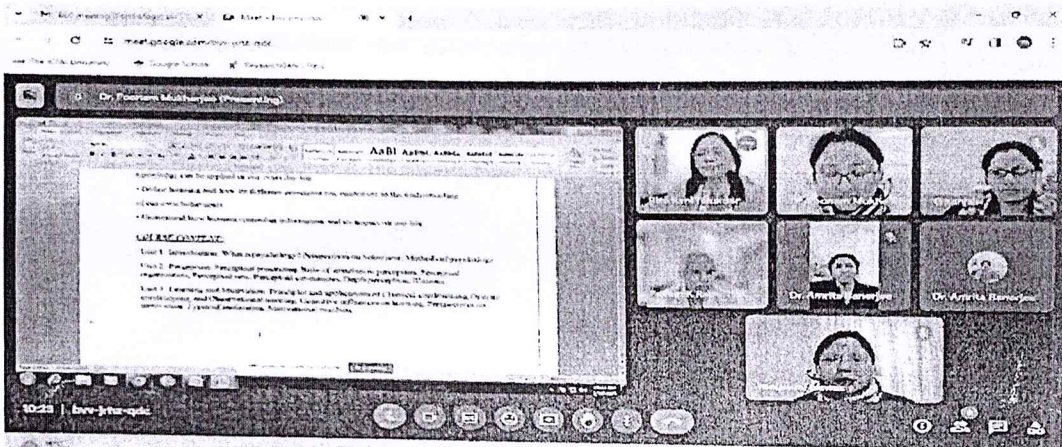


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Approval
4 messages
Gitanjali
To: p
Co



Gitanjali <gitanjaliroy@iutripura.edu.in>

Approval & Signature for Minutes of BoS (Psychology)

4 messages

Gitanjali <gitanjaliroy@iutripura.edu.in>

Tue, Mar 12, 2024 at 4:05 PM

To: pratapkrath@gmail.com

Cc: mousumi biswas <mousumi.biswas@iutripura.edu.in>, poonam mukherjee <poonamm@iutripura.edu.in>, "Dr. Amrita Banerjee" <amritabanerjee@iutripura.edu.in>

Dear Sir,


Greetings from the Faculty of Liberal Arts. Hope you are doing good.

With reference to the BoS-Psychology meeting held on 20/01/2024, attached within is the Minutes and the detailed syllabus, for your kind reference.

I kindly request you to approve the same by sharing your digital signature.

For any query, please feel free to contact the undersigned.

Regards,
Gitanjali,
FLA, IUT.
Contact- 09774734852.

 **BOS Psychology.pdf**
993K

Gitanjali <gitanjaliroy@iutripura.edu.in>

Fri, Apr 5, 2024 at 2:08 PM

To: pratapkrath@gmail.com

Cc: mousumi biswas <mousumi.biswas@iutripura.edu.in>, poonam mukherjee <poonamm@iutripura.edu.in>, "Dr. Amrita Banerjee" <amritabanerjee@iutripura.edu.in>

Dear Sir,

As per the telephonic conversation, forwarding you the mail. Request you to kindly do the needful.

Regards,
Gitanjali.
[Quoted text hidden]

Prof. Pratap K Rath <pratapkrath@gmail.com>

Sat, Apr 6, 2024 at 1:15 PM

To: Gitanjali <gitanjaliroy@iutripura.edu.in>

Thank you. Apropos our telephonic conversation, as i confirmed then, i do not have a digital signature. However, through this personal mail of mine, i confirm that i was very much present online through the meeting. I discussed and supported the decisions taken in the meeting.

Prof Pratap K Rath
[Quoted text hidden]

Gitanjali <gitanjaliroy@iutripura.edu.in>

Mon, Apr 8, 2024 at 9:19 AM

To: "Prof. Pratap K Rath" <pratapkrath@gmail.com>

Thank you Sir, for your response.
[Quoted text hidden]

<https://mail.google.com/mail/u/0/?ik=a3c97954ed&view=pt&search=all&permthid=thread-a:r4824013628390347687&siml=msg-a:r412843475934729...> 1/1



Gitanjali <gitanjaliroy@iutripura.edu.in>

Approval & Signature for Minutes of BoS (Psychology)

7 messages

Tue, Mar 12, 2024 at 4:01 PM

Gitanjali <gitanjaliroy@iutripura.edu.in>

To: ritapsychology@gauhati.ac.in

Cc: mousumi biswas <mousumi.biswas@iutripura.edu.in>, poonam mukherjee <poonamm@iutripura.edu.in>, "Dr. Amrita Banerjee" <amritabanerjee@iutripura.edu.in>

Dear Sir,

Greetings from the Faculty of Liberal Arts. Hope you are doing good.

With reference to the BoS-Sociology meeting held on 20/01/2024, attached within is the Minutes and the detailed syllabus, for your kind reference.

I kindly request you to approve the same by sharing your digital signature.

For any query, please feel free to contact the undersigned.

Regards,
Gitanjali,
FLA, IUT.
Contact- 09774734852.

Gitanjali <gitanjaliroy@iutripura.edu.in>


Tue, Mar 12, 2024 at 4:04 PM

To: ritapsychology@gauhati.ac.in

Cc: mousumi biswas <mousumi.biswas@iutripura.edu.in>, poonam mukherjee <poonamm@iutripura.edu.in>, "Dr. Amrita Banerjee" <amritabanerjee@iutripura.edu.in>

Sorry for the inconvenience. Please find the attachment.

[Quoted text hidden]

 **BOS Psychology.pdf**
993K

Rita Rani Talukdar <ritapsychology@gauhati.ac.in>

Tue, Mar 12, 2024 at 8:52 PM

To: Gitanjali <gitanjaliroy@iutripura.edu.in>

Dear Gitanjali,

The attachment sent by you is in pdf format. Could you please send it in word document format so that I can add my e signature to approve it.

Regards
Prof Rita Rani Talukdar,
Head, Dept. of Psychology,
Gauhati University

[Quoted text hidden]

The sender of this message is not authorized to send messages from this domain.

Tue, Apr 2, 2024 at 3:58 PM

Gitanjali <gitanjaliroy@iutripura.edu.in>

To: Rita Rani Talukdar <ritapsychology@gauhati.ac.in>

Cc: poonam mukherjee <poonamm@iutripura.edu.in>

Dear ma'am,



4/23/24, 5:21 PM

ICFAI University, Tripura Mail - Approval & Signature for Minutes of BoS (Psychology)

Sorry for the delayed response.

Word files sometimes have formatting issues. If you have any feedback, kindly reply to this mail or else you may just write "approved" with your comments. We will take print of the mail and make the necessary documentation.

Regards,
Gitanjali.
[Quoted text hidden]

Tue, Apr 2, 2024 at 4:24 PM

Rita Rani Talukdar <ritapsychology@gauhati.ac.in>
To: Gitanjali <gitanjaliroy@iutripura.edu.in>
Cc: poonam mukherjee <poonamm@iutripura.edu.in>

Approved.

Dr Rita Rani Talukdar
Professor and Head
Department of Psychology
Gauhati university
[Quoted text hidden]

Tue, Apr 2, 2024 at 4:45 PM

Gitanjali <gitanjaliroy@iutripura.edu.in>
To: Rita Rani Talukdar <ritapsychology@gauhati.ac.in>
Cc: poonam mukherjee <poonamm@iutripura.edu.in>

Thank you so much for your cooperation, ma'am.
[Quoted text hidden]

Wed, Apr 3, 2024 at 1:48 PM

Rita Rani Talukdar <ritapsychology@gauhati.ac.in>
To: Gitanjali <gitanjaliroy@iutripura.edu.in>
Cc: poonam mukherjee <poonamm@iutripura.edu.in>

You are welcome.
[Quoted text hidden]



Item 32.03

Confirmation of Minutes of the 31th Meeting of the Academic Council of the ICFAI University, Tripura dated 24th January, 2023

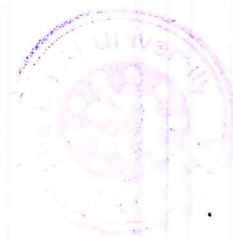
Minutes of the 31st Meeting of the Academic Council of the ICFAI University, Tripura dated 24th January, 2023

Present:

Name	Designation
Prof.(Dr) Biplab Halder	Vice Chancellor Chairman
Dr. A. Ranganath	Registrar
Dr. Biswajit Chakrabarty	Member (External)
Dr. Prabhu Narayan Mishra	Member (External)
DR. (Prof.) Jitendra D. Lakhani	Member (External)
Dr. Subhasish Chatterjee	Member
Dr. Priyanshu Rana Borthakur	Member
Dr. Sujit Deb	Member
Dr. Prem Shankar Srivastava	Member
Dr. Swarnali Nath Choudhury	Member
Dr. Silali Banerjee	Member
Prof. Mousumi Biswas	Member
Dr. Debabrata Roy	Member
Mrs. Ireen V. Darlong	Member
Dr. Zigisha Pujari	Member
Dr. Prasanta Kumar Sinha	Member
Mr. Arijit Das	Member
Dr. Palash De	Invitee
Dr. Saptarshi Chakraborty	Invitee
Dr. Subhrajyoti Deb	Invitee
Dr. Sovan Ghosh	Invitee
Dr. Arnab Ghosh	Invitee
Dr. Rita Banik	Invitee
Dr. Arindam Banerjee	Invitee
Dr. Subodh Debbarna	Invitee
Dr. Mamoni Kalita	Invitee
Dr. Prasenjit Dasgupta	Invitee
Dr. Annesha Saha	Invitee
Dr. Dulal Debnath	Member
Dr. T K Mandal	Member
Dr. Arijit Chatterjee	Member

Prof.(Dr) Biplab Halder, Vice Chancellor, presided over the meeting and the following items of business were transacted.

31.01 Grant of leave of absence, if any.



Dr. Birbal Saha and Dr. Amit Kumar Laha were absent and they were granted leave of absence.

31.02 Welcome to the new members

Prof. Biplab Halder welcomed Dr. Prasanta Kumar Sinha and Dr. Arijit Chatterjee, to the Academic Council.

31.03 Confirmation of the Minutes of the 30th Meeting of the Academic Council of The ICFAI University, Tripura held on 19th September, 2022.

The minutes of the 30th meeting of the Academic Council of The ICFAI University, Tripura were taken as read and confirmed by the Council.

31.04 BOS Minutes of ICFAI Law School,

Dr. Zigisha Pujari briefed the minutes and resolutions of the Board of Studies of ICFAI Law School. Council approved the resolutions of the board of studies.

31.05 BOS Minutes of Department of Physics

Dr. Sovan Ghosh briefed the minutes and resolutions of the board of studies of physics. Council approved the resolutions of the board of studies and suggested to include instrumentation, non-destructive way of characterization, magnetic penetration etc. and Artificial Intelligence course.

31.06 BOS Minutes of Department of Chemistry

Dr. Swarnali Nath Choudhary briefed the minutes and resolutions of the board of studies of chemistry. Council approved the resolutions of the board of studies and also suggested to offer the Bio-chemistry as an optional course.

31.07 BOS Minutes of Department of Mathematics

Dr. Anah Ghosh briefed the minutes and resolutions of the board of studies of Mathematics. Council approved the resolutions of the board of studies and suggested to offer the courses like data science and artificial intelligence.

31.08 BOS Minutes of Department of Civil Engineering

Dr. Manish Sakhlecha briefed the minutes and resolutions of the board of studies of Civil Engineering. Council approved the resolutions of the board of studies.

31.09 BOS Minutes of Department of Electrical & Communication Engineering

Dr. Rita Banik briefed the minutes and resolutions of the board of studies of Electrical & Communication Engineering. Council approved the resolutions of the board of studies.

31.10 BOS Minutes of Electronic & Communication Engineering

Prof. Dhriti Rudhrpal briefed the minutes and resolutions of the board of studies of Electronic & Communication Engineering. Council approved the resolutions of the board of studies.



BOS Minutes of Computer Science & Engineering

Prof. Abhijit Biswas briefed the minutes and resolutions of the board of studies of Computer Science & Engineering. Council approved the resolutions of the board of studies.

31.12 BOS Minutes of Mechanical Engineering

Dr. Subodh Debbarma briefed the minutes and resolutions of the board of studies of Mechanical Engineering. Council approved the resolutions of the board of studies.

For CE/EE/ECE/CSE/ME deptt- It was suggestion that Units in LPU structure to be allocated for the CRT Courses being offered and grade to be awarded to students.

31.13 BOS Minutes of Physical Education & Yoga

Dr. Dulal Debnath briefed the minutes and resolutions of the board of studies of Physical Education & Yoga. Council approved the resolutions of the board of studies.

31.14 BOS Minutes of Faculty of Liberal Arts

Prof. Mousumi Biswas briefed the minutes and resolutions of the board of studies of Faculty of Liberal Arts. Council approved the resolutions of the board of studies.

31.15 BOS Minutes of Research & Development Cell

Dr. Tapan Kumar Mondal briefed the minutes and resolutions of the board of studies of Research & Development Cell. Council approved the resolutions of the board of studies.

31.16 BOS Minutes of B.Com Hons

Dr. Annesha Saha briefed the minutes and resolutions of the board of studies of B.Com Hons. Council approved the resolutions of the board of studies.

31.17 BOS Minutes of BBA

Dr. Sujit Deb briefed the minutes and resolutions of the board of studies of BBA. Council approved the resolutions of the board of studies.

31.18 BOS Minutes of MHA

Dr. Sujit Deb briefed the minutes and resolutions of the board of studies of MHA. Council approved the resolutions of the board of studies.

31.19 BOS Minutes of MBA

Dr. Sujit Deb briefed the minutes and resolutions of the board of studies of MBA. Council approved the resolutions of the board of studies.

31.20 Any other item with the permission of the chair

No other additional item was discussed in the meeting.



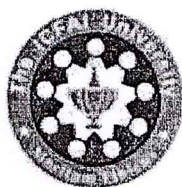
21 Date for the next meeting of Academic Council.

It was agreed that the date for the next meeting of the Academic Council would be fixed in consultation with the Chairman

The meeting concluded with a vote of thanks to the chair

Dr. Biplab Halder
Vice Chancellor





The ICFAI University, Tripura

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

Date: 11.09.2023

Minutes of Meeting and Resolutions
Board of Studies
Faculty of Science & Technology, ICFAI Technical School
Department of Electronics & Communication Engineering

Introduction:

A meeting of Board of Studies, ECE, ITS, FST, ICFAI University, Tripura was held on 07.09.2023 (Thursday) at 3:00 pm through online mode. Prof. (Dr.) Prasanta Kumar Sinha, Professor & Principal, ICFAI Technical School, Faculty of Science and Technology chaired the meeting.

Following members were present at the meeting:

1. Dr. Bijoy Kumar Upadhyaya, Professor, Tripura Institute of Technology, Agartala (External Member)
2. Dr. Arup Sinha, Senior Vice President & Competency Head (Utility), Virtuoso Technologies & Consulting Pvt. Ltd (External Member)
3. Dr. Arindam Banerjee, Associate Professor & HOD, ECE, IUT (Member Secretary)
4. Prof. Dhriti Rudrapal, Assistant Professor, ECE, IUT (Internal Member)
5. Prof. Tapan Kumar Mohanta, Assistant Professor, ECE, IUT (Internal Member)
6. Prof. Debarshita Biswas, Assistant Professor, ECE, IUT (Internal Member)

Agenda:

The agenda deliberated were discussed and following resolutions were passed:

Item No.	Particulars
1	Consideration of Action Taken Report for approval of the previously held meeting on 12.01.2023. The action taken report of last BOS meeting held on 12.01.2023 was discussed after the approval from Academic Council Meeting held on 24.01.2023. Resolutions:

Prasanta Kumar Sinha
11/09/23

Arup Sinha
11/09/23

Debarshita Biswas
11.09.23

Bijoy Kumar Upadhyaya
11/09/23

Registrar
ICFAI University Tripura
Kamalghat, Tripura (West)



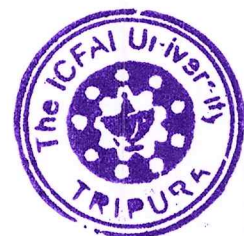
	The Action Taken Report of the previously held meeting on 12.01.2023 was approved by all the members.
2	<p>Agenda: Inclusion of Corporate Recruitment Training (CRT) courses in B. Tech ECE curriculum</p> <p>Resolutions: The inclusion of Corporate Recruitment Training (CRT) courses in the curriculum of B. Tech ECE Second, Third and Fourth year (Odd and Even Semesters) as credit courses with 02 unit credit was appreciated by the external board members. After observing the syllabus of the CRT courses, Dr. Arup Sinha suggested to conduct mock interview session to the students and if possible, some external faculty members from other institutes or industries might be invited in front of whom the students could perform the mock interview session.</p>
3	<p>Agenda: Inclusion of "Theme Projects" courses in B. Tech, ECE curriculum</p> <p>Resolutions: The inclusion of "Theme Projects" courses in the curriculum of B. Tech ECE First, Second and Third year (both Odd and Even Semesters) as credit courses was appreciated by the external board members. Dr. Arup Sinha suggested to assign software based projects apart from hardware based projects especially to the third year students to enrich the software skill of the students.</p>
4	<p>Agenda: Review of Modified Course Structure for B. Tech ECE</p> <p>Resolutions: Before the inclusion of the CRT courses and Theme Project courses, the total credit in the B. Tech ECE new curriculum (from 2022-2023 batch onwards) was 160. After the inclusion of the CRT courses and Theme Projects courses, the credit has been increased to 176.</p>
5	<p>Agenda: Course Code Approval of the courses in the B. Tech ECE new curriculum</p> <p>Resolutions: The course codes of the courses included in the B. Tech ECE new curriculum of 2022-2026 program structure were assigned and approved by the competent authority of the University. The external board members also approved the same.</p>
6	<p>Agenda: Approval for the Value Added Courses</p> <p>Resolutions: A value added course entitled "Introduction to Different Software Simulation and Programming Execution" was proposed to be conducted in this semester. The proposal was also highly appreciated by the external board members.</p>

AK
11/09/23

Mk
11/09/23

Dasgupta
11/09/23

Bojee
11/09/23



7

Agenda: Miscellaneous**Resolutions:**

- i. Dr. Upadhyaya also suggested to give utmost priority in improving students' communication skill, power point presentation skill, group discussion ability etc. so that they could be ready for the corporate recruitment. In reply, the honorable chair Prof. Dr. Prasanta Kumar Sinha explained the importance of the inclusion of the CRT courses in second, third and fourth year batches. This initiative was appreciated by all the external members.

Finally the meeting was concluded with vote of thanks by the chair.

Tmk
11/09/23

(Prof. Tapan Kumar Mohanta)
Member, Assistant Professor, ECE, IUT

Dhriti
11/09/23

(Prof. Dhriti Rudrapal)
Member, Assistant Professor, ECE, IUT

asinha

(Dr. Arup Sinha)
External Member, Senior Vice President &
Competency Head (Utility), Virtuoso
Technologies & Consulting Pvt. Ltd.
For Virtuoso Technologies
and Consulting Pvt. Ltd.

Debarshita Biswas
11.09.23

(Prof. Debarshita Biswas)
Member, Assistant Professor, ECE, IUT

Bojee 11/09/23

(Dr. Arindam Banerjee)
Associate Professor, Member Secretary &
HOD, ECE, IUT

BK
08/09/2023

PROF. BIJOY KR. UPADHYA
Professor (ECE)
Tripura Institute of Technology,
Narsingarh, Tripura (W).

(Dr. Bijoy Kumar Upadhyaya)
External Member,
Professor, TIT, Agartala

Prasanta Kumar Sinha
11/9/23

(Prof. (Dr.) Prasanta Kumar Sinha)
Member Chairman, Professor & Principal,
ITS, FST, IUT





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

Ref. No-IUT/ITS/AP/2023-24/D- 3148

Date: 23-04-2024

APPROVAL NOTE

The following courses of B. Tech, ECE, CSE, EE, ME, CE, shown in Table-I, need some modification in respect of lecture and practical compositions.

Curriculum as per 2023-2024 Regulation (Table-I)

Program	Academic Year	Course Name	Course Code	L	P	U	Sessions
B. Tech 2 nd Year SEM I (ECE, CSE, EE, ME, CE)	A.Y. 2023-24	Introduction to IoT	ES213	3	0	3	45
B. Tech 3 rd Year SEM I (ECE)	A.Y. 2023-24	Digital VLSI Design	ECE306	3	0	3	45
B. Tech 3 rd Year SEM II (ECE)	A.Y. 2023-24	Embedded Systems	EC435	3	0	3	45

Internet of Things course is common for all the engineering departments (ECE, CSE, EE, ME, CE) and the lab classes need be assigned for that. In the curriculum regulations 2022-2023 and 2023-2024, there were no lab assigned for the above mentioned courses due to the lack of proper laboratories. But in the year 2023, two new labs (VLSI Design Lab and Internet of Things Lab (IoT)) have been set up in the month of September. New equipments and components have been purchased for the two laboratories. All the newly purchased equipments and components are based on the state of the art technologies and efforts have been given to maintain the criteria of Industry 4.0 regulations. It is also important to mention that the laboratory experiments for the Embedded Systems course can be taken with the components of the IoT lab. Therefore, the Department of ECE along with the other engineering departments has now the facilities to execute lab classes for the above mentioned courses. Also it is being observed that only theory classes are not enough for the students to understand the working principle of the state of the art devices. In earlier semester, we had to sacrifice one theory class to take the students to the lab to perform some basic experiments so that they could understand the basics of the components of IoT (Internet of Things).

Therefore, a proposal is being given for the approval of the competent authority to reduce the lecture session by 1 and include 2 practical classes so that the total unit credit is not hampered by keeping track with the modern technological advancement. The proposed modification is given in Table-II.

Bojee *Bojee* *Bojee* *Bojee* *Bojee* *Bojee* *Bojee*





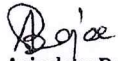
The ICFAI University, Tripura


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

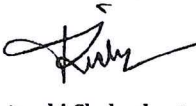
Curriculum modification for 2024-2025 Regulation (Table-II)


Program	Academic Year	Course Name	Course Code	L	P	U	Sessions
B. Tech 2 nd Year SEM I (ECE, CSE, EE, ME, CE)	A.Y. 2023- 24	Introduction to IoT	ES213	2	2	3	30+15=45
B. Tech 3 rd Year SEM I (ECE)	A.Y. 2023- 24	Digital VLSI Design	ECE306	2	2	3	30+15=45
B. Tech 3 rd Year SEM II (ECE)	A.Y. 2023- 24	Embedded Systems	EC435	2	2	3	30+15=45


This is for the kind approval of the competent authority.



Dr. Arindam Banarjee
HOD, ECE, ITS

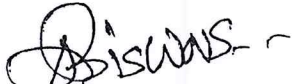

Dr. Rita Banik
HOD, EE, ITS

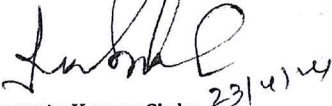

Dr. Saptarshi Chakraborty
HOD, CSE, ITS

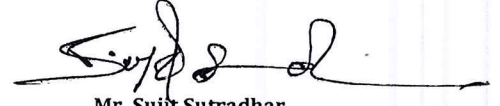

Dr. Subodh Debbarma
HOD, ME, ITS

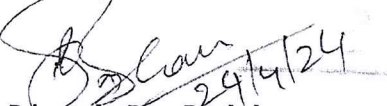

Dr. Palash Dey
HOD, CE, ITS

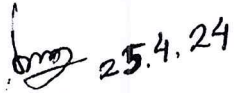

Prof. Ashim Paul,
Assistant Prof., CE, ITS


Dr. Abhijit Biswas,
Coordinator, CSE & CA Dept.


Dr. Prasanta Kumar Sinha
Principal, ITS


Mr. Sujit Sutradhar
Dy. Manager, ERP Coordinator

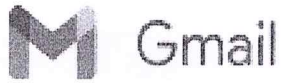

Dr. Priyangshu Rana Borthakur
(Dean) FST


Dr. Soumendra Nath Bandyopadhyay
Controller of Examination


Dr. A Ranganath
Registrar, ICFAI University, Tripura

Prof. (Dr.) Biplab Halder
Vice- Chancellor, ICFAI University, Tripura





Dr. Arindam Banerjee <arindambanerjee@iutripura.edu.in>

Seeking permission for the approval for the change of L-P-U in three existing courses

2 messages

Dr. Arindam Banerjee <arindambanerjee@iutripura.edu.in>

Thu, Apr 25, 2024 at 12:06 PM

To: Halder B <halderb@icfaiuniversity.in>

Cc: IU Tripura Registrar <registrar@iutripura.edu.in>, priyangshu borthakur <priyangshu.borthakur@iutripura.edu.in>, prasanta kumar sinha <prasantaksinha@iutripura.edu.in>, Sujit Sutradhar <sujitsutradhar@iutripura.edu.in>, Ashim Paul <ashim.paul@iutripura.edu.in>, ABHIJIT BISWAS <abhijt.biswas@iutripura.edu.in>, Saptarshi Chakraborty <saptarshichakraborty@iutripura.edu.in>, rita banik <ritabanik@iutripura.edu.in>, SUBODH DEBBARMA <subodh.debbarma@iutripura.edu.in>, Dr Palash Dey <palashdey@iutripura.edu.in>, Examination Department IUT <examsdept@iutripura.edu.in>

Respected Sir,

I, Dr. Arindam Banerjee, HOD, ECE, am seeking your permission for the approval for the change of L-P-U in three existing courses, mentioned below, to be run in the upcoming odd and even semesters.

- 1) Introduction to IoT (ES213)
- 2) Digital VLSI Design (ECE306)
- 3) Embedded Systems (EC435)

Among them, the first two courses will be run in the upcoming odd semester and the course "Introduction to IoT" is a common course for all the engineering departments. All these courses were only theory courses as per the 2023-2027 curriculum but now after setting up the two labs (VLSI Design Lab and IoT Lab), we wish to run experiments for all the engineering departments. For all the above-mentioned courses, the L-P-U was 3-0-3 but now after including lab classes the L-P-U becomes 2-2-3 without hampering the unit credit. The relevant approval document is attached herewith for your reference.

Therefore, I will be obliged if you kindly approve the above mentioned changes.

With regards,

Dr. Arindam Banerjee,

Associate Professor and HOD,

Department of Electronics and Communication Engineering,

Faculty of Science and Technology,

ICFAI University, Tripura

Mobile: 6290564216/ 9433279813

Email ID: arindambanerjee@iutripura.edu.in, banerjee.arindam1@gmail.com



Course_Code_Approval.pdf

1718K

Halder B <halderb@icfaiuniversity.in>

Thu, Apr 25, 2024 at 12:08 PM

To: "Dr. Arindam Banerjee" <arindambanerjee@iutripura.edu.in>

Cc: IU Tripura Registrar <registrar@iutripura.edu.in>, priyangshu borthakur <priyangshu.borthakur@iutripura.edu.in>, prasanta kumar sinha <prasantaksinha@iutripura.edu.in>, Sujit Sutradhar <sujitsutradhar@iutripura.edu.in>, Ashim Paul <ashim.paul@iutripura.edu.in>, ABHIJIT BISWAS <abhijt.biswas@iutripura.edu.in>, Saptarshi Chakraborty <saptarshichakraborty@iutripura.edu.in>, rita banik <ritabanik@iutripura.edu.in>, SUBODH DEBBARMA <subodh.debbarma@iutripura.edu.in>, Dr Palash Dey <palashdey@iutripura.edu.in>, Examination Department IUT <examsdept@iutripura.edu.in>

Approved.

With Thanks & Regards,

Prof. (Dr.) Biplab Halder

Vice Chancellor

ICFAI University, Tripura



4/25/24, 12:21 PM

ICFAI University, Tripura Mail - Seeking permission for the approval for the change of L-P-U in three existing courses

www.iutripura.edu.in

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The ICFAI University Tripura

Faculty of Science & Technology



COURSE MODULE/SYLLABUS

Programme: B. Tech ECE, 3rd Year, Semester-I							
Course Code	Course Title	Core/ Elective/ CBCS	Prerequisite	Contact Hours			Total Hours
				L	T/P	U	
ECE306	Digital VLSI design	Core	Digital Electronics, Computer Organization	2	2	3	45
<i>RBT: 1- Remembering, 2-Understanding, 3-Applying, 4-Analyzing, 5-Evaluating, 6- Creating</i>							
Topics Covered as per Syllabus:							
<u>UNIT-1 (Introduction to Digital VLSI Design)</u>							
Introduction to VLSI Design Methodologies, MOS Processing, Design rules, stick diagrams and Layouts (RBT: 1,2,3)							
<u>UNIT-2 (MOS Transistor)</u>							
Structure & operation of MOS, MOS Capacitances, Non-saturation and saturation, Gradual Channel approximation, Channel length modulation, Body effect and other second order effects. (RBT: 1, 2, 3, 4)							
<u>UNIT-3 (Switching Characteristics of Combinational circuits)</u>							
Switching characteristics of MOS inverters, delay estimation and the effect of interconnects, Implementation of combinational circuits using NMOS depletion loads. (RBT: 1, 2, 3)							
<u>UNIT-4 (Implementing CMOS logic gates)</u>							
Layout of CMOS logic circuits, Pass Gates, Dynamic Logic Gates and Flip-Flops: Design of Sequential circuits (RBT: 1, 2, 3, 4 and 5)							
<u>UNIT-5 (Introduction to the Low power CMOS logic circuits)</u>							
Understanding the operation of semiconductor memories, Introduction, DRAM, SRA Flash Memory and FRAM, Introduction to the Low power CMOS logic circuits , Power consumptions, switching power dissipation& reduction, Short circuit power dissipation, Leakage power dissipation. (RBT: 1, 2, 3, 4 and 5)							



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List of Experiments:

1. Design and implementation of CMOS.
2.
 - (a) Design and implementation of CMOS NAND
 - (b) Design and implementation of CMOS NAND
3. D-Flipflop using CMOS transmission gate.
4.
 - (a) Design and implementation of AND gate using Dataflow and Behavioral styles
 - (b) Design and implementation of OR gate using Dataflow and Behavioral styles
 - (c) Design and implementation of XOR gate using Dataflow and Behavioral styles
5.
 - (a) Design and implementation of Half Adder
 - (b) Design and implementation of Full Adder using Half Adder
 - (c) Design and implementation of Parallel Adder
6.
 - (a) Design and implementation of Half Subtractor
 - (d) Design and implementation of Full Subtractor using Half Subtractor
 - (e) Design and implementation of Parallel Subtractor
7. Design and implementation of 8 to 1 Multiplexer
8. Design and implementation of 3 to 8 Decoder
9. Design and implementation of 1 to 8 Demultiplexer
10. Design and implementation of Flipflop
11. Design and implementation of MOD-8 Counter
12.
 - (a) Design and implementation of Shift Register (Right shift)
 - (b) Design and implementation of Shift Register (Left shift)
13. Design of Half Adder gate using Basic gates
14. Design of Full Adder gate using Basic gates

Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development:

1. Class Test
2. Assignments
3. Presentation
4. Practicals

List of Books

- T1.** CMOS Digital Integrated Circuits: Analysis and Design, S. M. Kang, Y Leblebici, McGraw Hill Intl Edition, 2003.
- T2.** CMOS VLSI Design: Circuits and systems perspective, Neil H.E.Weste, David Harris, Ayan Banerjee, PEARSON Education.
- R1.** Principles of CMOS VLSI Design, Neil H.E. Weste, Kamran Eshragan, Addison-Wesley, 2005.
- R2.** VLSI Design Techniques for analog and digital circuits, Randall A. Geiger, Phillips E. Allen et al., McGraw Hill Intl. Edition 1990

Course Outcomes: After completing this course students will be able to:



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Faculty of Science & Technology



CO1: Gain knowledge of various digital VLSI design processes, including specification, synthesis, placement, routing, and verification.	1, 2, 3
CO2: Develop the ability to design combinational and sequential logic circuits using CMOS technology.	1, 2, 3
CO3: Understand the working of CMOS transistors and their application in digital circuits.	1, 2, 3, 4, and 5
CO4: Develop the ability to describe digital circuits using HDL languages such as Verilog or VHDL.	1, 2, 3, 4, and 5



B. Tech ECE, 3rd Year, Semester-I

Revised Bloom's Taxonomy Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

Programme Name: B. Tech ECE, 3rd Year, Semester-I

Programme Code: FST004


Programme Outcome:

- PO1. Ability to apply fundamental knowledge of mathematics, science in appropriate areas of electronics and communication engineering.
- PO2. Ability to identify and formulate the solutions for complex engineering problems.
- PO3. Ability to design, investigate and analyze electronic circuits.
- PO4. Ability to design and implement electronic and communication related systems to facilitate day to day needs.
- PO5. Ability to use research-based methods through experiments, analysis, data interpretation and synthesis of the information to provide valid conclusions.
- PO6. Ability to create, select, and apply appropriate techniques, resources, and modern engineering tools necessary for practice.
- PO7. Ability to apply professional engineering solutions for the sustainable development of the society.
- PO8. Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9. Ability to function effectively as an individual, a member or leader in diverse teams, and in multidisciplinary settings to accomplish the goal.
- PO10. Ability to communicate effectively through presentation and clear instructions with the engineering community and society.
- PO11. An ability to engage in independent and life-long learning in the changing technological environment.

Programme Specific Outcome:

- PSO1. Demonstrate the understanding of basic concepts in Electronics & Communication Engineering.
- PSO2. Be able to apply them in various areas, like Electronics, Communications, Signal processing, VLSI, Embedded systems etc., in the design and implementation of complex systems.
- PSO3. Have the ability to solve complex Electronics and communication engineering problems, using latest hardware and software tools, along with analytical skills to arrive cost effective and appropriate solutions.
- PSO4. Have an understanding of social awareness and environmental wisdom along with ethical responsibility to have a successful career and enthusiasm for real-world applications using optimal resources as an entrepreneur.



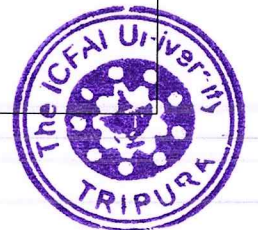
Syllabus of Course										
	Faculty of Science & Technology, ICFAI University Tripura					Academic Year		2024-2025		
	Programme Name: B. Tech ECE									
Year	1	Core/ Elective/ Foundation: Core					Hours per week	4		
		Course Name: Digital VLSI design								
		Course Code: ECE306								
Semester	I	Year of Introduction:			2022		Maximum Marks	100		
		Year of Syllabus Revision:			2023					
Mode of Transaction: English				Lectures			L P U		2 2 3	
Course Outcomes (CO): After completing this course students will be able to:										
CO1	Gain knowledge of various digital VLSI design processes, including specification, synthesis, placement, routing, and verification.									
CO2	Develop the ability to design combinational and sequential logic circuits using CMOS technology.									
CO3	Understand the working of CMOS transistors and their application in digital circuits.									
CO4	Develop the ability to describe digital circuits using HDL languages such as Verilog or VHDL.									
Unit No.	Topic	Contact Hours	Weight age (%)	RBT Level	CO	PO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent)/ Skill Development (SD)	Relevance to Local (L)/ National (N)/ Regional (R)/ Global (G)	Relation to Gender (G)/ Environment and Sustainability (ES)/ Human Values (HV) and Professional Ethics (PE)
1	Introduction to VLSI Design Methodologies, MOS Processing, Design rules, stick diagrams and Layouts	8	18	1,2,3	CO1	PO1 PO3	PSO 2PS O3	EMP., Ent., SD	L,N, G	ES
2	Structure & operation of MOS, MOS	10	22	1,2,3,4	CO2	PO2 PO4				



	Capacitances, Non-saturation and saturation, Gradual Channel approximation, Channel length modulation, Body effect and other second order effects.									
3	Switching characteristics of MOS inverters, delay estimation and the effect of interconnects, Implementation of combinational circuits using NMOS depletion loads.	10	22	1,2,3	CO2	PO3 PO4				
4	Layout of CMOS logic circuits, Pass Gates, Dynamic Logic Gates and Flip-Flops: Design of Sequential circuits.	8	18	1,2,3,4,5	CO3 CO4	PO6 PO7				
5	Understanding the operation of semiconductor memories, Introduction, DRAM, SRA Flash Memory and FRAM, Introduction to the Low power CMOS logic circuits, Power consumptions, switching power dissipation & reduction, Short circuit power dissipation, Leakage power dissipation.	9	20	1,2,3,4,5	CO3	PO4 PO5	PSO 2PS O3	EMP., Ent., SD	L,N, G	ES

Experiment List:

1	Design and implementation of CMOS.	2	8	2,3,4	CO4	PSO2 PSO3	EMP., Ent., SD	L,N, G	ES
2	(a) Design and implementation of CMOS NAND (b) Design and implementation of CMOS NAND	2	8						
3	D-Flipflop using CMOS transmission gate.	2	7						
4	(a) Design and implementation of AND gate using Dataflow and Behavioral styles (b) Design and implementation of OR gate using	2	7						



	Dataflow and Behavioral styles (c) Design and implementation of XOR gate using Dataflow and Behavioral styles									
5	(a) Design and implementation of Half Adder (b) Design and implementation of Full Adder using Half Adder (c) Design and implementation of Parallel Adder	2	7	2,3,4	CO4					
6	(a) Design and implementation of Half Subtractor (d) Design and implementation of Full Subtractor using Half Subtractor (e) Design and implementation of Parallel Subtractor	2	7							
7	Design and implementation of 8 to 1 Multiplexer	2	7							
8	Design and implementation of 3 to 8 Decoder	2	7							
9	Design and implementation of 1 to 8 Demultiplexer	2	7							
10	Design and implementation of Flipflop	2	7							
11	Design and implementation of MOD-8 Counter	2	7							
12	(a) Design and implementation of Shift Register (Right shift) (b) Design and implementation of Shift Register (Left shift)	2	7							
13	Design of Half Adder gate using Basic gates	2	7							
14	Design of Full Adder gate using Basic gates	2	7							L,N, G ES

Books:

T1	CMOS Digital Integrated Circuits: Analysis and Design, S. M. Kang, Y Leblebici, McGraw Hill Intl Edition, 2003.
T2	CMOS VLSI Design: Circuits and systems perspective, Neil H.E.Weste, DavidHarris, Ayan Banerjee, PEARSON Education.
R1	Principles of CMOS VLSI Design, Neil H.E. Weste, Kamran Eshragan, Addison-Wesley, 2005.
R2	VLSI Design Techniques for analog and digital circuits, Randall A. Geiger, Phillips E. Allen et al., McGraw Hill Intl. Edition-1990



The ICFAI University Tripura

Faculty of Science & Technology



COURSE MODULE/SYLLABUS

Programme: B. Tech ECE, 3rd Year, Semester-II							
Course Code	Course Title	Core/ Elective/ CBCS	Prerequisite	Contact Hours			Total Hours
				L	T/P	U	
EC435	Embedded Systems	Core	Micro Processors and Interfacing, Digital Electronics, Computer Organization and Architecture	2	2	3	45

RBT: 1- Remembering, 2-Understanding, 3-Applying, 4-Analyzing, 5-Evaluating, 6- Creating

Topics Covered as per Syllabus:

UNIT-1 (Introduction to Embedded systems)

Introduction to Embedded systems, Processors embedded into a system, embedded hardware units and Devices in system, embedded software in a system, Embedded System on chip, Classification of embedded systems, skills required for embedded designers, Examples of embedded systems. Real Time system – Hard RTS, Soft RTS, Introduction to sensors and Actuators.

(RBT: 1,2,)

UNIT-2 (Mixed Signal Microcontroller)

Mixed Signal Microcontroller: MSP430 series. Block diagram. Address space. On-chip peripherals -analog and digital. Register sets. Addressing Modes. Instruction set. Programming. FRAM vs flash for low power and reliability.

(RBT: 1, 2, 3, 4 and5)

UNIT-3 (MSP430 Interfacing Serial data transfer)

MSP430 Interfacing Serial data transfer - UART, SPI, and I2C. Interrupts. I/O ports and port expansion. ADC, PWM, DC motor, Stepper motor and LCD interfacing.

(RBT: 1, 2, 3, 4 and 5)

UNIT-4 (ARM 7 architecture)

ARM 7 Block diagram. Address space. On - chip peripherals - analog and digital. Register sets. Addressing Modes. Instruction set. Programming. **(RBT: 1, 2, 3, 4 and 5)**



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Faculty of Science & Technology



UNIT-5 (ARM 7 Interfacing Serial data transfer)

ARM 7 Interfacing Serial data transfer - UART, SPI, and I2C. Interrupts. I/O ports and port expansion. ADC, PWM, DC motor, Stepper motor and LCD interfacing
(RBT: 1, 2, 3, 4 and 5)

List of Experiments:

1. Simple LED Blinking using AVR ATMEGA16/ Arduino Uno/ NodeMCU;
2. Traffic Light Control using AVR ATMEGA16/ Arduino Uno/ NodeMCU;
3. PIR Sensor Based Object Movement Detection and RGB LED blink using Microbit; PIR Motion Sensor and LCD interfacing with AVR ATMEGA16 Microcontroller/ Arduino uno/ NodeMCU;
4. Street Light Control using AVR ATMEGA16/ Arduino uno/ NodeMCU/Microbit;
5. Infrared Sensor and Seven Segment Display Interfacing with AVR ATMEGA16/ Arduino Uno/ Mega; Switch Based Motor Control using AVR ATMEGA16 Microcontroller/ Arduino uno/ NodeMCU
6. Flame Sensor and LCD interfacing with AVR ATMEGA16 Microcontroller/ Arduino uno/ NodeMCU;
7. Vibration Sensor and LCD interfacing with AVR ATMEGA16 Microcontroller/ Arduino uno/ NodeMCU;
8. Sound Sensor and LCD interfacing using AVR ATMEGA16 Microcontroller/ Arduino uno/ NodeMCU;
9. Rain Sensor Based Information Display in LCD using AVR ATMEGA16/ Arduino uno/ NodeMCU;
10. Decimal Counter using AVR ATMEGA16 Microcontroller/ Arduino uno/ NodeMCU;
11. Voice Controlled Home Appliance using Bluetooth.

Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development:

1. Class Test
2. Assignments
3. Presentation
4. Practicals

List of Books

Text Books

1. John H. Davies, "MSP430 Microcontroller Basics", 1st edition, Elsevier Ltd, Burlington USA, 2008.
2. Warwick A. Smith, "ARM Microcontroller Interfacing: Hardware and Software", 1st edition, Elektor Netherland, 2010.

Reference Books



The ICFAI University Tripura

Faculty of Science & Technology



1. Adrian Fernandez, Dung Dang, "Getting Started with the MSP430 Launch pad", 1st edition, Elsevier Ltd., USA, 2013
2. Steve Furbur, "ARM System-On-Chip Architecture", 2nd edition, Pearson education, New Delhi, 2009.
3. Raj Kamal, "Embedded Systems: Architecture, Programming and Design", 2nd edition, TMH Publisher Company limited, New Delhi, 2008.

Course Outcomes: After completing this course students will be able to:

CO1: Understand all the basics of embedded systems	1, 2
CO2: Explain and analyzes the architecture and applications of MSP430 series	1, 2, 3, 4
CO3: Explain and analyzes the architecture and applications of ARM 7	1, 2, 3, 4
CO4: programming and interfacing using different embedded systems	1, 2, 3, 4, and 5



B. Tech ECE, 3rd Year, Semester-I

Revised Bloom's Taxonomy Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

Programme Name: B. Tech ECE, 3rd Year, Semester-I

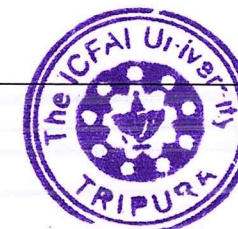
Programme Code: FST004


Programme Outcome:

- PO1. Ability to apply fundamental knowledge of mathematics, science in appropriate areas of electronics and communication engineering.
- PO2. Ability to identify and formulate the solutions for complex engineering problems.
- PO3. Ability to design, investigate and analyze electronic circuits.
- PO4. Ability to design and implement electronic and communication related systems to facilitate day to day needs.
- PO5. Ability to use research-based methods through experiments, analysis, data interpretation and synthesis of the information to provide valid conclusions.
- PO6. Ability to create, select, and apply appropriate techniques, resources, and modern engineering tools necessary for practice.
- PO7. Ability to apply professional engineering solutions for the sustainable development of the society.
- PO8. Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9. Ability to function effectively as an individual, a member or leader in diverse teams, and in multidisciplinary settings to accomplish the goal.
- PO10. Ability to communicate effectively through presentation and clear instructions with the engineering community and society.
- PO11. An ability to engage in independent and life-long learning in the changing technological environment.

Programme Specific Outcome:

- PSO1. Demonstrate the understanding of basic concepts in Electronics & Communication Engineering.
- PSO2. Be able to apply them in various areas, like Electronics, Communications, Signal processing, VLSI, Embedded systems etc., in the design and implementation of complex systems.
- PSO3. Have the ability to solve complex Electronics and communication engineering problems, using latest hardware and software tools, along with analytical skills to arrive cost effective and appropriate solutions.
- PSO4. Have an understanding of social awareness and environmental wisdom along with ethical responsibility to have a successful career and enthusiasm for real-world applications using optimal resources as an entrepreneur.



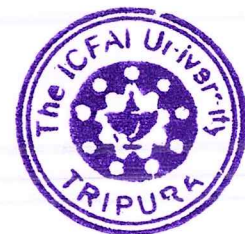
Syllabus of Course										
	Faculty of Science & Technology, ICFAI University Tripura						Academic Year	2024-2025		
	Programme Name: B. Tech ECE									
Year	1	Core/ Elective/ Foundation: Core					Hours per week	4		
		Course Name: Embedded Systems								
		Course Code: EC435								
Semester	I	Year of Introduction:	2019			Maximum Marks	100			
		Year of Syllabus Revision:	2023							
Mode of Transaction: English					Lectures	L P U	2 2 3			
Course Outcomes (CO): After completing this course students will be able to:										
CO1	Understand all the basics of embedded systems									
CO2	Explain and analyzes the architecture and applications of MSP430 series									
CO3	Explain and analyzes the architecture and applications of ARM 7									
CO4	programming and interfacing using different embedded systems									
Unit No.	Topic	Contact Hours	Weightage (%)	RBT Level	CO	PO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent)/ Skill Development (SD)	Relevance to Local (L)/ National (N)/ Regional (R)/ Global (G)	Relation to Gender (G) Environment and Sustainability (ES) Human Values (HV) and Professional Ethics (PE)



1	Introduction to Embedded systems, Processors embedded into a system, embedded hardware units and Devices in system, embedded software in a system, Embedded System on chip, Classification of embedded systems, skills required for embedded designers, Examples of embedded systems. Real Time system – Hard RTS, Soft RTS, Introduction to sensors and Actuators.	8	18	1,2,3	CO1	PO1 PO3	PSO 2PS O3	EMP., Ent., SD	L,N, G	ES
2	Mixed Signal Microcontroller: MSP430 series. Block diagram. Address space. On-chip peripherals -analog and digital. Register sets. Addressing Modes. Instruction set. Programming. FRAM vs flash for low power and reliability.	10	22	1,2,3,4	CO2	PO2 PO4				
3	MSP430 Interfacing Serial data transfer - UART, SPI, and I2C. Interrupts. I/O ports and port expansion. ADC, PWM, DC motor, Stepper motor and LCD interfacing.	10	22	1,2,3	CO2	PO3 PO4				
4	ARM 7 Block diagram. Address space. On - chip peripherals - analog and digital. Register sets. Addressing Modes. Instruction set. Programming.	8	18	1,2,3,4,5	CO3 CO4	PO6 PO7				
5	ARM 7 Interfacing Serial data transfer - UART, SPI, and I2C. Interrupts. I/O ports and port expansion. ADC, PWM, DC motor, Stepper motor and LCD interfacing	9	20	1,2,3,4,5	CO3	PO4 PO5	PSO 2PS O3	EMP., Ent., SD	L,N, G	ES



10	Decimal Counter using AVR ATMEGA16 Microcontroller	2	7						
11	Decimal Counter using AVR ATMEGA16 Arduino uno	2	7						
12	Decimal Counter using AVR ATMEGA16 NodeMCU;	2	7						
13	Voice Controlled Home Appliance using Bluetooth	2	7						
14	Flame Sensor and LCD interfacing with AVR ATMEGA16 Microcontroller Flame Sensor and LCD interfacing with AVR ATMEGA16 Microcontroller/ Arduino uno/ NodeMCU; Flame Sensor and LCD interfacing with AVR ATMEGA16 Microcontroller/ Arduino uno/ NodeMCU;	2	7					L,N, G	ES
Books:									
T1	John H. Davies, "MSP430 Microcontroller Basics", 1st edition, Elsevier Ltd, Burlington USA, 2008.								
T2	Warwick A. Smith, "ARM Microcontroller Interfacing: Hardware and Software", 1st edition, Elektor Netherland, 2010.								
R1	Adrian Fernandez, Dung Dang, "Getting Started with the MSP430 Launch pad", 1st edition, Elsevier Ltd., USA, 2013								
R2	Raj Kamal, "Embedded Systems: Architecture, Programming and Design", 2nd edition, TMH Publisher Company limited, New Delhi, 2008.								



The ICFAI University Tripura

Faculty of Science & Technology



COURSE MODULE

Programme: B. Tech ECE, 1 st Year, Semester-I							
Course Code	Course Title	Core/ Elective	Prerequisite	Contact Hours			Total Hrs/ Sessions
				L	T	P	
ES213	Introduction to IoT	Core	Microcontroller, Sensor and Actuator	3	-	2	47
RBT: 1- Remembering, 2-Understanding, 3-Applying, 4-Analyzing, 5-Evaluating, 6- Creating							
Topics Covered as per Syllabus:							
<u>MODULE-1</u>							
<ul style="list-style-type: none"> a. Basic: What is IoT-Definition & Characteristics of IoT? Impact of IoT, IoT Challenges. b. IoT Network Architecture & Design: oneM2M, IoTWF, Core Functional Stack, Data Management Stack. c. Things in IoT: Sensors, Actuators, Smart Objects, Basic of Sensor Networks. 							
(RBT: 1,2)							
<u>MODULE-2</u>							
<ul style="list-style-type: none"> d. Introduction of Arduino uno, Arduino mega e. Embedded C Programming f. Introduction of NODEMCU ESP8266, esp 32 g. Basic Web Design h. Introduction of Raspberry pi 							
(RBT: 1,2)							
<u>MODULE-3</u>							
<ul style="list-style-type: none"> a. Communication Criteria, b. IoT Access Technologies: IEEE 802.15.4, IEEE 802.15.4e, IEEE 802.11ah, IEEE 1901.2a, NB-IoT. 							
(RBT: 1,2)							
<u>MODULE-4</u>							
<ul style="list-style-type: none"> a. Network Layer: IP as IoT Network Layer, 6LoWPAN, 6Lo, 6TiSCH, RPL. b. Application Layer: IoT application transport methods, CoAP, MQTT. 							





The ICFAI University Tripura

Faculty of Science & Technology

(RBT: 2)

MODULE-5

- a. IoT Middleware.
- b. Data Analytics for IoT.
- c. Big Data analytics tools and technology

(RBT: 1, 2)

MODULE-6

- a. Smart City.
- b. Smart Grid.
- c. Smart Transportation.
- d. Smart Manufacturing Smart Healthcare.

(RBT: 1,2)

List of Experiments:

1. LED blinking using ArduinoUno and Node MCU ESP8266.
2. IR Sensor Interfacing using Arduino Uno.
3. IR Sensor Interfacing using Arduino Uno.
4. LCD & PIR Sensor interfacing with Arduino UNO.
5. LCD and Ultrasonic sensor interfacing with Arduino UNO.
6. Temperature and humidity display using DHT11/22 sensor and Arduino Uno.
7. Text message display using Bluetooth module & Node MCU ESP8266.
8. (a) Counter design using Microbit.(b) Updown counter design using button of Microbit.
9. PIR sensor interfacing with Microbit.
10. Wireless data communication using Microbit.
11. LED blinking using Bluetooth based mobile application.
12. LED blinking using ESP32 (inbuilt Bluetooth).
13. Temperature and humidity display in mobile app through ESP32.
14. Touch sensor based message sending through Microbit.
15. Motion detection and alert system using ESP32 and mobile app.
16. Voice controlled LED glow using ESP32.

List of Text Books

1. "IoT Fundamentals: Networking Technologies, Protocols, and Use Cases for the Internet of Things", by David Hanes, Gonzalo Salgueiro, Patrick Grossetete, Robert Barton, Jerome Henry; 1st Edition, 2018, Pearson India Pvt. Ltd.
2. "Internet of Things: A Hands-on Approach", by ArshdeepBahga and Vijay Madisetti, 1st Edition, 2015, Universities Press (India) Pvt. Ltd.

List of Reference Books





The ICFAI University Tripura

Faculty of Science & Technology

1. “21 Internet of Things (IOT) Experiments: Learn IoT, the programmer’s way”, by Yashavant Kanetkar and Shirang Korde, 1st Edition, 2018, BPB Publications.
2. Research Papers

Course Outcomes: Students will be able to

CO1: Apply design concept to IoT solutions

CO2: Analyze various IoT architectures.

CO3: Evaluate design issues in IoT applications

CO4: Create IoT solutions using sensors, actuators and Devices

CO5: Recognize various devices, sensors and applications

Internal Assessment Marks: 20 Marks

Internal-I: Assignment and Internal Test

Internal-II: Assignment and Internal Test



B. Tech ECE, 1st Year, Semester-I

Revised Bloom's Taxonomy Levels: 1. Remember 2. Understand 3. Application 4. Analysis 5. Evaluation 6. Creation

Programme Name: B. Tech ECE, 1st Year, Semester-I

Programme Code: FST004

Programme Outcome:


- PO1. Ability to apply fundamental knowledge of mathematics, science in appropriate areas of electronics and communication engineering.
- PO2. Ability to identify and formulate the solutions for complex engineering problems.
- PO3. Ability to design, investigate and analyze electronic circuits.
- PO4. Ability to design and implement electronic and communication related systems to facilitate day to day needs.
- PO5. Ability to use research-based methods through experiments, analysis, data interpretation and synthesis of the information to provide valid conclusions.
- PO6. Ability to create, select, and apply appropriate techniques, resources, and modern engineering tools necessary for practice.
- PO7. Ability to apply professional engineering solutions for the sustainable development of the society.
- PO8. Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9. Ability to function effectively as an individual, a member or leader in diverse teams, and in multidisciplinary settings to accomplish the goal.
- PO10. Ability to communicate effectively through presentation and clear instructions with the engineering community and society.
- PO11. An ability to engage in independent and life-long learning in the changing technological environment.

Programme Specific Outcome:

- PSO1. Demonstrate the understanding of basic concepts in Electronics & Communication Engineering.
- PSO2. Be able to apply them in various areas, like Electronics, Communications, Signal processing, VLSI, Embedded systems etc., in the design and implementation of complex systems.
- PSO3. Have the ability to solve complex Electronics and communication engineering problems, using latest hardware and software tools, along with analytical skills to arrive cost effective and appropriate solutions.
- PSO4. Have an understanding of social awareness and environmental wisdom along with ethical responsibility to have a successful career and enthusiasm for real-world applications using optimal resources as an entrepreneur.

Syllabus of Course



	Faculty of Science & Technology, ICFAI University Tripura						Academic Year	2023-2024		
	Programme Name: B. Tech ECE									
Year	1	Core/ Elective/ Foundation: Core						Hours per week	4	
		Course Name: Basic Electrical and Electronics								
		Course Code: ES101								
Semester	I	Year of Introduction:			2022			Maximum Marks	100	
		Year of Syllabus Revision:			2023					
Mode of Transaction: English				Lectures			L P U	2 2 3		
Course Outcomes (CO): After completing this course students will be able to:										
CO1	Apply design concept to IoT solutions									
CO2	Analyze various IoT architectures.									
CO3	Evaluate design issues in IoT applications									
CO4	Create IoT solutions using sensors, actuators and Devices									
CO5	Recognize various devices, sensors and applications									
Unit No.	Topic	Contact Hours	Weightage (%)	RBT Level	CO	PO	PSO	Elements of Employability (Emp)/ Entrepreneurship (Ent)/ Skill Development (SD)	Relevance to Local (L)/ National (N)/ Regional (R)/ Global (G)	Relation to Gender (G)/ Environment and Sustainability (ES)/ Human Values (HV) and Professional Ethics (PE)



1	Basic: What is IoT-Definition & Characteristics of IoT? Impact of IoT, IoT Challenges. IoT Network Architecture & Design: oneM2M, IoTWF, Core Functional Stack, Data Management Stack. hings in IoT: Sensors, Actuators, Smart Objects, Basic of Sensor Networks.	7	15	1,2,3	CO3	PO1 PO7	PSO1 PSO2	EMP., Ent., SD	L,N, G	G, ES, HV, PE
2	Introduction of Arduino uno, Arduino mega Embedded C Programming. Introduction of NODEMCU ESP8266, esp 32. Basic Web Design. Introduction of Raspberry pi	8	17	1,2,3,4	CO1	PO1 PO3				
3	Communication Criteria, IoT Access Technologies: IEEE 802.15.4, IEEE 802.15.4e, IEEE 802.11ah, IEEE 1901.2a, NB-IoT.	5	11	2,3,4	CO2	PO2 PO7				
4	Network Layer: IP as IoT Network Layer, 6LoWPAN, 6Lo, 6TiSCH, RPL. Application Layer: IoT application transport methods, CoAP, MQTT.	7	15	2,3	CO1 CO2	PO2 PO7				
5	IoT Middleware. Data Analytics for IoT.	6	12	1,2,3	CO4	PO1 PO2 PO3				



6	Big Data analytics tools and technology	7	15	2,3	CO5	PO1 PO2 PO3				
7	Smart City. Smart Grid. Smart Transportation. Smart Manufacturing Smart Healthcare.	7	15	2,3, 4	CO5					
Books:										
T1	"IoT Fundamentals: Networking Technologies, Protocols, and Use Cases for the Internet of Things", by David Hanes, Gonzalo Salgueiro, Patrick Grossetete, Robert Barton, Jerome Henry; 1st Edition, 2018, Pearson India Pvt. Ltd.									
T2	"Internet of Things: A Hands-on Approach", by ArshdeepBahga and Vijay Madiseti, 1st Edition, 2015, Universities Press (India) Pvt. Ltd.									
R1	"21 Internet of Things (IOT) Experiments: Learn IoT, the programmer's way", by Yashavant Kanetkar and Shrirang Korde, 1st Edition, 2018, BPB Publications.									
R2	Research Papers									

Registrar,
ICFAI University Tripura
Kamaighat, Tripura (West)



List of Course Syllabus Revision AY 2023-24

Department: Mechanical Engineering

Academic Year	Name of new course introduced	Course Code	% with respect to total Course
2023-24	Engineering Graphics	ES124	20



Registrar,
ICFAI University Tripura
Kamalghat, Tripura (West).



Course Code	Course Title	L	P	U
ES 124	Engineering Graphics	1	4	3

Scope & objective of the course: The objective of this subject is to enhance the visualization and imagination abilities of the student to promote creative thinking for solving engineering problems. The student will be able to create 2-D drawings both manually and using commercial CAD software to solve Engineering problems and communicate solutions using engineering drawing, understand the methodology of standards of various drawing practices.

Course Outcomes:

- (i) To know and understand the conventions and the method of engineering drawing.
- (ii) Interpret engineering drawings using fundamental technical mathematics.
- (iii) Construct basic and intermediate geometry.
- (iv) To improve their visualization skills so that they can apply these skill in developing new products.
- (v) To improve their technical communication skill in the form of communicative drawings.
- (vi) Comprehend the theory of projection.
- (vii) To develop the Computer-aided design using CAD software

Module 1: Basics of Engineering Graphics

Introduction, importance of graphics language, Drawing conventions & Practices, Drawing Instruments, title block, Lines, Lettering and Dimensioning

Module 2: Scales

Plain, Diagonal, Vernier and Comparative Scales

Module 3: Geometrical Constructions

Conic sections including ellipse, parabola and Hyperbola; Involute and cycloid profile

Module 4: Projection

Theory, techniques, first and third angle projections, Multi view drawing from pictorial views, Projections of points and lines, Primary and Secondary auxiliary views, true shapes, true length, true inclinations and traces of a line, shortest distance between graphical points, Projection of planes, position of planes, Construction of Sectional views; Principles of orthographic Projections- Conventions, Conversion of Pictorial View into Orthographic Views

Module 5: Isometric Projections



Principles of Isometric projection – Isometric Scale, Isometric Views, Conventions; Isometric Views of lines, Planes, Simple Solids; Conversion of Isometric Views to Orthographic Views and Vice-versa, Conventions

Module 6: CAD fundamental

Introduction, limits, toolbars, starting new drawing, saving new drawing etc

Module 7: CAD 2D construction

Simple commands like line, circle, polygon, etc and formatting commands, Projections of points and lines, Identification and drawing of missing line(s) and view in orthographic, Construction of Sectional views.

Module 8: CAD 3D view

Drawing annotation, Computer-aided design (CAD) software modelling of parts and assemblies, Creation of engineering models and their presentation in standard 2D blueprint form and as 3D wire-frame and shaded solids, Drawing of 3D figure with 3D modelling, Drawing of various machine components both 2D and 3D, Complex geometry drawing in 3D drawing

Module 9: Mini project on 3D modelling of various machine components such as, Plummer Block, Nut and Bolt etc.

Text book(s):

T1: Engineering Drawing with an introduction to AutoCAD: D. A. Jolhe: TMH, 1stEdition, 2008.

T2: Fundamentals of Engineering Drawing: Warren J. Luzzader & J. M. Duff: PHI, 11thEdition, 2010.

T3: Engineering Drawing, N.D. Bhatt, Charotar Publishing, 2011

Reference book(s):

R1: Engineering Drawing: K. Venugopal: New Age International (P) Limited, 2003.

R2: Engineering Drawing: N.D.Bhatt, V.M.Panchal: Charotar Publishing, 49th Edition, 2006.

R3: Engineering Graphics with Auto CAD 2006: James D. Bethune: PHI, 2002.



Lecture(s):

SL No.	Learning objectives	Content	Reference to Text book	Lecture (L)
1	Introduction to engineering drawing	Principles of Engineering Graphics and their significance, usage of Drawing instruments, lettering, Different types of lines and their use; Drawing standards and codes.	T1, Ch1-2	1
2-3	Lettering, dimensioning, scales	Various type of lettering, Plain scale, Diagonal scale and Vernier Scale.	T1, Ch5	2
4-5	Geometrical construction and curves	Construction of polygons, Conic sections including the Rectangular Hyperbola (General method only); Cycloid, Epicycloid, Hypocycloid, Involute.	T1, Ch6	2
6-7	Projection of points, lines, surfaces	Principles of Orthographic Projections- Conventions - 1st and 3rd angle projection, Projections of Points and lines inclined to both planes; Projections of planes (Rectangle, pentagon, Hexagon etc.) inclined Planes - Auxiliary Planes.	T1, Ch8,10,11,13	2
8-9	Isometric projections	Principles of Isometric projection – Isometric Scale, Isometric Views, Conventions; Isometric Views of lines, Planes, Simple Solids; Conversion of Isometric Views to Orthographic Views and Vice-versa	T1, Ch18	2



10-12	Overview of computer graphics & Cad drawing	Computer technologies that impact on graphical communication, Demonstrating knowledge of the theory of CAD software [such as: The Menu System, Toolbars (Standard, Object Properties, Draw, Modify and Dimension), Drawing Area (Background, Coordinate System), Dialog boxes and windows, Shortcut menus (Button Bars), The Command Line (where applicable), The Status Bar, Different methods of zoom as used in CAD, Select and erase objects.; Isometric Views of lines, Planes, Solids]; Set up of the drawing page and the printer, including scale settings, Setting up of units and drawing limits; ISO and ANSI standards for coordinate dimensioning and tolerancing; Orthographic constraints, Snap to objects manually and automatically; Producing drawings by using various coordinate input entry methods to draw straight lines, Applying various ways of drawing circles	T1, Ch22	3
13-15	Annotations, layering & other functions	Applying dimensions to objects, applying annotations to drawings; Setting up and use of Layers, layers to create drawings, Create, edit and use customized layers; Changing line lengths through modifying existing lines (extend/lengthen); Printing documents to paper using the print command; orthographic projection techniques; Drawing sectional views of composite right regular geometric solids and project the true shape of the sectioned surface; Drawing annotation, Computer aided design (CAD) software modeling of parts and assemblies. Parametric and non-parametric solid, surface, and wireframe models. Part editing and two-dimensional documentation of models. Planar projection theory, including sketching of perspective, isometric, auxiliary, and section views. Spatial visualization exercises. Dimensioning guidelines, tolerancing techniques	T1, Ch22	3



BOARD DRAWING PRACTICAL SESSIONS:

SL No.	List of Practical Sessions	Week
1	Introduction, Drawing conventions & Practices, etc. Dimensioning, Geometrical terms, bisecting a line, angle, arc etc. Regular polygons.	1
2	Scales – Plain scale, Diagonal scale and Vernier Scale	2
3	Conic sections including ellipse, parabola and Hyperbola, Involute and cycloid profile	3
4	Theory, techniques, first and third angle projections, Multi view drawing from pictorial views	4
5	Principles of Orthographic Projections-Conventions	5
6	Identification and drawing of missing line(s) and view in orthographic projections, Construction of isometric and oblique from orthographic projections.	6
7	Projections of points and lines	7
8	Primary and Secondary auxiliary views, true shapes, true length, true inclinations and traces of a line, shortest distance between graphical points.	8
9	Projection of planes, position of planes	9
10	Terms used in projections of planes	10
11	Construction of right regular, oblique solids.	11



12	Construction of Sectional views.	12
13	Drawing Parallel line method, Radial Line Method and Triangulation method.	13
14	Intersection between line-plane, plane-plane	14
15	Intersection between line-solid, plane-solid, solid-solid.	15

COMPUTER GRAPHICS AND CAD DRAWING PRACTICAL SESSIONS:

SL No.	List of Practical Sessions	Week
1	Introduction to lab, Codes & practices, Cadian Integrated Development Environment, Drawing, dimensioning and modifying commands.	1
2	Different methods of zoom as used in CAD, Select and erase objects.; Isometric Views of lines, Planes, Simple and compound solids	2
3	Setting up of units and drawing limits; ISO and ANSI standards for coordinate dimensioning and tolerancing; Orthographic constraints, Snap to objects manually and automatically	3
4	Producing drawings by using various coordinate input entry methods to draw straight lines, Applying various ways of drawing circles	4
5	applying dimensions to objects, applying annotations to drawings; Setting up and use of Layers, layers to create drawings, Create, edit and use customized layers	5
6	Drawing annotation, Computer-aided design (CAD) software modeling of parts and assemblies	6
7	Parametric and non-parametric solid, surface, and wireframe models. Part editing and two-dimensional documentation of models	7
8	Planar projection theory, including sketching of perspective, isometric, multiview, auxiliary, and section views	8



9	Creation of engineering models and their presentation in standard 2D blueprint form and as 3D wire-frame and shaded solids	9
10	Meshed topologies for engineering analysis and tool-path generation for component manufacture	10
11	Geometric dimensioning and tolerancing	11
12	Use of solid-modeling software for creating associative models at the component and assembly levels	12
13	Drawing of 3D figure with 3D modeling	13
14	Drawing of various machine components both 2D and 3D	14
15	Complex geometry drawing in 3D drawing	15

Evaluation Scheme:

Component	Duration	Weightage (%)	Remarks
Mid Term Exam	2 hrs.	40	Closed Book
Comprehensive Exam	3 hrs	60	Closed Book

- 1. Attendance Policy:** A Student must normally maintain a minimum of 75% attendance in the course without which he/she shall be disqualified from appearing in the respective examination.
- 2. Make-up Policy:** A student, who misses any component of evaluation for genuine reasons, must immediately approach the instructor with a request for make-up examination stating reasons. The decision of the instructor in all matters of make-up shall be final.
- 3. Chamber Consultation Hours:** During the Chamber Consultation Hours, the students can consult the respective faculty in his/her chamber without prior appointment.





The ICFAI University, Tripura

(Established under Section 4(2) of The Institute of Chartered Financial Analysts of India University, Tripura Act 2004)
Kamalghat (PO), Mohanpur, Tripura West - 799210, Tel: 0381- 2865752/62, Fax: 0381- 2865754
Website: www.iutripura.edu.in E-mail: registrar@iutripura.edu.in

**ICFAI Tech School
(Faculty of Science & Technology)**

Date: 08-09-23

**Minutes of Meeting and Resolutions
Board of Studies, Faculty/Department of Mechanical Engineering,
The ICFAI University Tripura**

Introduction:

A meeting of Board of Studies, Mechanical Engineering, ICFAI University, Tripura was held on 08-09-2023, at 4 P.M. Dr. Prasanta Kumar Sinha, Principal, ITS, The ICFAI University Tripura chaired the meeting. The meeting was held in online mode. Google Meet joining info: <https://meet.google.com/bjc-qefb-ypp>

Following members were present at the meeting:

1. Dr. Prasanta Kumar Sinha, Principal, ITS, IUT, Chairman
2. Dr. Subodh Debbarma, Associate Professor & HoD, ITS, IUT, Member Secretary
3. Dr. Amit Kumar Rana, Assistant Professor, ITS, IUT, Internal Member
4. Dr. Mrinmoy Dhar, Assistant Professor, ITS, IUT, Internal Member
5. Prof. Pritam Majumder, Assistant Professor, ITS, IUT, Internal Member
6. Dr. Bireswar Majumder, Professor, Jadavpur University, External Member
7. Dr. Raja Chakraborty, Professor, TIT, External Member
8. Mr. S.G Khune, Senior Vice President, Graphite India Limited, West Bengal, External Member

Agenda:

The agenda deliberated were discussed and following resolutions were passed:

Item No.	Particulars
1	Consideration of Action Taken Report for approval of the previously held meeting on 11/01/23 The action taken report of last BOS meeting held on 11/01/23 was discussed

(Handwritten signatures of the members present at the meeting)



after the approval from Academic council held on 24/01/23.

Resolutions: The Action Taken Report of the previously held meeting on 11/01/23 was approved by all the members.

Agenda: Inclusion of CRT (Corporate Recruitment Training) for B.Tech (2nd year to 4th Year) in Program Structure 2022-26, 2023-27, and (3rd Year sem II to 4th year Sem II) in Program Structure 2021-25.

Resolutions: In order to improve the performance of the B.Tech Students in the placement interviews, the following corporate training courses (CRT) has been introduced.

Batch wise course details are as:

2 1. Corporate Recruitment Training I, Corporate Recruitment Training II, Corporate Recruitment Training III, Corporate Recruitment Training IV, Corporate Recruitment Training V, and Corporate Recruitment Training VI: (For 2022-23 regular batch and 2023 -2024 lateral batch and For 2023-24 regular batch and 2024 -2025 lateral batch)

2. Corporate Recruitment Training I, Corporate Recruitment Training II, and Corporate Recruitment Training III: (For 2021-22 regular batches and, 2022-2023 lateral batches)

Lecture (L), Tutorial (T), Practical (P) and Unit (U) of each the course will be same as given in the table.

Lecture	Tutorial	Practical	Unit
1	0	2	2

3 **Agenda:** Inclusion of Theme Project for B.Tech (2nd year to 3rd Year) in Program Structure 2022-26, (1st Year to 3rd Year) in program structure 2023-27 and (3rd Year) in Program Structure 2021-25.

Resolutions: In order to improve the performance of B.Tech Students in project work, a theme project is included in the program structure so that the students get experience into an almost unlimited variety of amazing real-life topics, which makes learning much more fun and challenging.

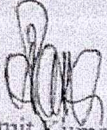
4 **Agenda:** Course code Approval of the previous B.Tech Program Structure 2022-26.

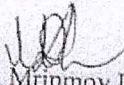
Resolutions: It is taken into consideration that the course name have been approved in the last academic council held on 24/01/2023 but course code was



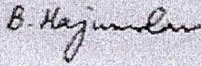
	not approved so all the members agreed to place in academic council for approval of the same.
5	<p>Agenda: Value added course approval.</p> <p>Resolutions: Department of Mechanical Engineering is going to offer three value added course namely- 1. Renewable energy resources and waste energy reduction, 2. Computer Aided Design, 3. E-Vehicles etc. The program will be offered from the Academics session-2023. All the members agreed to it.</p>

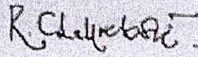
The Meeting was concluded with vote of thanks by the chairman.

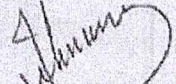

Dr. Amit Kumar Rana
(Internal Member)

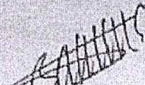

Dr. Minmoy Dhar
(Internal Member)

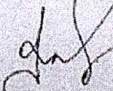

Prof. Pritam Majumder
(Internal Member)

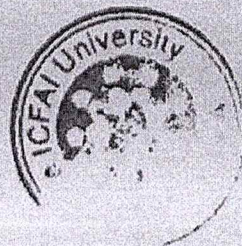

Dr. Bireswar Majumder
(External Member)


Dr. Raja Chakraborti
(External Member)


Mr. S. G. Khane
(External Member)


Dr. Subodh Debbarma
(Member Secretary)


Dr. Prasanta Kr. Sinha
(Principal, ITS & Chairman)





The ICFAI University, Tripura

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www.iutripura.edu.in E-mail: registrar@iutripura.edu.in Website:

ICFAI Tech School (Faculty of Science & Technology)

Date: 11-01-23

Minutes of Meeting and Resolutions Board of Studies, Faculty /Department of Mechanical Engineering, The ICFAI University Tripura

Introduction:

A meeting of Board of Studies, Mechanical Engineering, ICFAI University, Tripura was held on 11-01-2023, at 3 P.M. Dr. Prasanta Kumar Sinha, Principal, ITS, The ICFAI University Tripura chaired the meeting. The meeting was held in online mode. Google Meet joining info: meet.google.com/vzi-gjnw-qvd

Following members were present at the meeting:

1. Dr. Prasanta Kumar Sinha, Principal, ITS, IUT, Chairman
2. Dr. Subodh Debbarma, Associate Professor & HoD, ITS, IUT, Member Secretary
3. Dr. Amit Kumar Rana, Assistant Professor, ITS, IUT, Internal Member
4. Dr. Payel Deb, Assistant Professor, ITS, IUT, Internal Member
5. Dr. Mrinmoy Dhar, Assistant Professor, ITS, IUT, Internal Member
6. Prof. Pritam Majumder, Assistant Professor, ITS, IUT, Internal Member
7. Dr. Bireswar Majumder, Professor, Jadavpur University, External Member
8. Prof. Raja Chakraborty, Associate Professor, TIT, External Member
9. Mr. Brajagopal Maiti, Deputy Manager Production Planning and control, Tractor India Limited (TIL), External Member

Agenda:

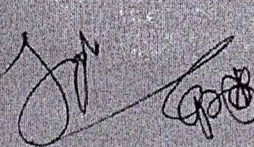
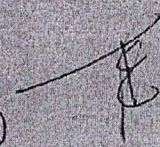
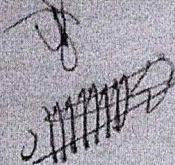
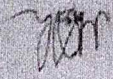
The agenda deliberated were discussed and following resolutions were passed:

Item No.	Particulars
1	New Course code approval. Resolutions: External member suggested following observations- i. The proposed subject codes can be shortened. For example, the subject

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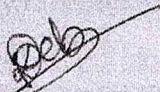






	<p>code of the course "Mathematics II" may be changed to M121 instead of MA121. ENG120 (course: Professional communication) may be E120. This will be convenient for students as well as faculty members. Based on the new course structure they also suggested to incorporate additional 20 credits along with current 163 credit which will help students to gain eligibility for NDA and Honour application. They also advised to incorporate Sociology and Behavioral Science as audit course which is an interdisciplinary subject and helps student to make strong relation with the society and develop their behavioral activity.</p> <p>iv. The course name "Fluid Mechanics and Hydraulic Machines" may be changed to "Fluid Mechanics and Fluid Machines", considering the course content.</p> <p>v. To bridge the gap in knowledge for the advanced level course - Computational Fluid Dynamics and basic level course - Fluid Mechanics, they suggested to include a subject, titled Advanced Fluid Mechanics.</p> <p>vi. Renewable Energy Source subject should be designed in such a way that it is highly demandable in the society with respect to Hydropower Generation, Wind Power generation etc.</p> <p>vii. Continuation of same for Special project-I in VII and Special project-II in VIII semester was another major concern. This will help students in more effective project work along with paper communication and other aspects.</p>
2	<p>Agenda: Modification of Engineering Graphics syllabus</p> <p>Resolutions: Following suggestion obtained from external members-</p> <p>i. External members advised to merge the module 4 and 5 in a single module in Engineering Graphics(BS124) course for the lecture portion. External member also suggested to change the last module as "mini project on 3D modeling of various machine components such as nut and bolt, plumber block, etc".</p> <p>ii. Most popular engineering drawing book by ND Bhatt should be added in the text book list.</p> <p>iii. Module should be designed maintaining question set up aspects and proper sequence.</p> <p>iv. The name of module 3 (Curves) may be changed to Geometrical Constructions.</p> <p>v. Industrial expert also advised to emphasize on practice of the drawing.</p> <p>vi. External members also suggested to add atleast one specialized subject in each Program Elective and Open Elective bucket. As per their suggestion, the following courses will be incorporated in the program elective and Open Elective bucket:</p>

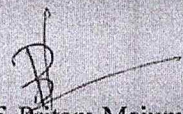
	<p>Program Elective I (VI)</p> <ul style="list-style-type: none"> • Analysis and performance of fluid machines, L-T-P-U:3-0-0-3 <p>Program Elective II (VII)</p> <ul style="list-style-type: none"> • Fracture mechanics, L-T-P-U:3-0-0-3 • Heat Engine and Refrigeration System. L-T-P-U:3-0-2-4 <p>Program Elective (VIII)</p> <ul style="list-style-type: none"> • Micro and Nano manufacturing, L-T-P-U:3-0-0-3 <p>Open Elective II</p> <ul style="list-style-type: none"> • Introduction to Tribology, L-T-P-U:3-0-0-3
3	<p>Agenda: Value added course approval.</p> <p>Resolutions: Major suggestions in the addition of Value Added Courses were-</p> <ol style="list-style-type: none"> To incorporate an evaluation process regarding the software learning. Industrial expert advised to purchase updated version of the software relevant to the industrial application and to continue regular maintenance of it.
4	<p>Agenda: Inclusion of Innovative learning and innovative teaching course</p> <p>Resolutions: External BOS members advised to organize some industry expert talk as well as training program before of commencement of Innovative learning and Innovative Teaching course. Students should be encouraged to participate in group discussion on current topics and seminar which will improve their presentation skills.</p>

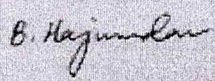
The Meeting was concluded with vote of thanks by the chairman.

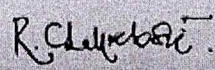

Dr. Amit Kumar Rana
(Internal Member)

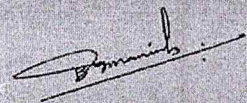

Dr. Payel Deb
(Internal Member)

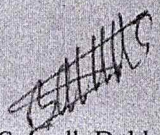

Dr. Mrinmoy Dhar
(Internal Member)

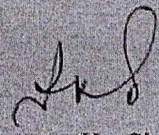

Prof. Pritam Majumder
(Internal Member)


Dr. Bireswar Majumder
(External Member)


Prof. Raja Chakraborti
(External Member)


Mr. Brajagopal Maiti
(External Member)


Dr. Subodh Debbarma
(Member Secretary)


Dr. Prasanta Kr. Sinha
(Principal, ITS & Chairman)



List Elective Subject AY 2023-24 (ME Dept.)

Program Elective

Sl No.	Program Elective I	L	T	P	U	SEMESTER
1	Analysis and Performance of Fluid Machines	3	0	0	3	SIXTH
2	Power Plant Engineering	3	0	0	3	SIXTH
3	Advanced Mechanics of Solids	3	0	0	3	SIXTH
Program Elective II						
4	Heat Engine and Refrigeration System	3	0	2	4	SEVENTH
5	Computational Fluid Dynamics	3	0	0	3	SEVENTH
6	Mechatronics	3	0	0	3	SEVENTH
7	Fracture Mechanics	3	0	0	3	SEVENTH
Program Elective III						
8	Automotive Engineering	3	0	0	3	EIGHTH
9	Finite Element Methods	3	0	0	3	EIGHTH
10	Production planning and control	3	0	0	3	EIGHTH
11	Micro and Nano Manufacturing	3	0	0	3	EIGHTH

Open Elective

Sl. No.	Open Elective I	L	T	P	U	SEMESTER
1	Control Systems	3	0	0	3	FIFTH
2	Automation and Robotics	3	0	0	3	FIFTH
3	Operations Research	3	0	0	3	FIFTH
Open Elective II						
4	Quality assurance & Reliability	3	0	0	3	SEVENTH
5	Introduction to Nanotechnology	3	0	0	3	SEVENTH
6	Renewable Energy Sources	3	0	0	3	SEVENTH
7	Introduction to Tribology	3	0	0	3	SEVENTH
Open Elective III						
8	Advances in Material Science	3	0	0	3	EIGHTH
9	Biomaterials	3	0	0	3	EIGHTH
10	3D Printing and Design	3	0	0	3	EIGHTH

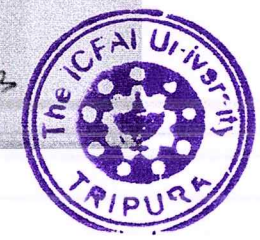
Humanities Elective

1	Social Innovation	3	0	0	3	SIXTH
2	Innovation & Entrepreneurship	3	0	0	3	SIXTH
3	AI and Humanities	3	0	0	3	SIXTH



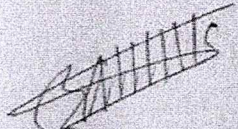
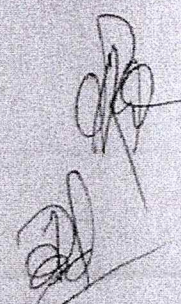
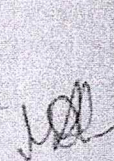
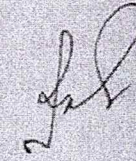

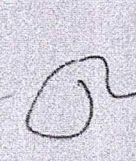
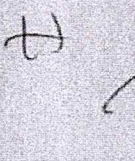
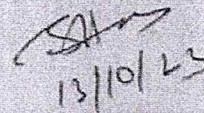
The ICFAI University Tripura														
Faculty of Science & Technology														
New Program Structure w.e.f Academic Session: 2023- 2027														
B.Tech, ME 2023-27 & B.Tech ME (Lateral Entry) 2024-27 onwards batch														
Year	Course Code	Semester-I	L	T	P	U	Course Code	Semester-II	L	T	P	U		
I	MA111	Mathematics I	3	0	0	3	MA121	Mathematics II	3	0	0	3		
	ENG103	English	2	0	2	3	CHEM121	Chemistry	2	0	2	3		
	ES101	Basic Electrical and Electronics	3	0	2	4	ENV121	Environment Sciences	3	0	2	4		
	PHY101	Physics	3	0	2	4	ES122	Digital Signal Processing	3	0	2	4		
	CSE103	Introduction to DS and AI	3	0	0	3	ENG120	Professional Communication	3	0	0	3		
	CSE102	C Programming	3	0	2	4	TA122	Workshop	2	0	2	3		
	HSXXX	Audit Course-I. Constitution of India					ES124	Engineering Graphics	1	0	4	3		
		Theme Project	0	0	0	1		Theme Project	0	0	0	1		
Total No of Credits			17	0	8	22	Total No of Credits			17	0	12	24	
II	Semester-III						Semester-IV							
	ES213	Introduction to IoT	3	0	0	3	ME222	Mechanics of Solid	2	0	2	3		
	ES206	Object Oriented Programming Concepts	3	0	2	4	ES224	Thermodynamics	3	0	0	3		
	MA211	Mathematics III	3	0	0	3	ME220P	Machine Drawing	0	0	4	2		
	ME206	Materials science	3	0	2	4	ES225	Industry Coding Practice (Python and R)	2	0	2	3		
	ES207	Engineering Mechanics	3	0	0	3	CSE121	Data Structures	3	0	2	4		
	ECN202	Principles of Managerial Economics	3	0	0	3	ME321	Kinematics of Machinery	3	0	0	3		
	ES208	Fluid Mechanics & Hydraulic Machine	3	0	2	4	CRT302	Corporate Recruitment Training II	1	0	2	2		
	CRT301	Corporate Recruitment Training I	1	0	2	2	ECN202	Principles of Managerial Economics	3	0	0	3		
		Theme Project	0	0	0	1		Theme Project	0	0	0	1		
Total No of Credits			14	0	8	27	Total No of Credits			14	0	12	24	
SIP201 Summer Internship Program-I														
III	Semester-V						Semester-VI							
	ME305	CAD/CAM	3	0	0	3	ME328	Additive manufacturing	3	0	0	3		
	ME307	Machine Learning in ME	3	0	0	3		Digital Humanities (Elective)	3	0	0	3		
	ME308	Design of Machine Elements	3	0	2	4	ME330	Heat And Mass Transfer	3	0	2	4		
	ME309	Manufacturing Processes	3	0	2	4	ME331	Dynamics of Machinery and Vibrations	3	0	2	4		
	ME221	Applied Thermodynamics	3	0	0	3		Program Elective I	3	0	0	3		
		Open Elective I	3	0	0	3	ME325T	Machine Tools	3	0	0	3		
		Audit Course-II					CRT304	Corporate Recruitment Training IV	1	0	2	2		
	CRT303	Corporate Recruitment Training III	1	0	2	2		Theme Project	0	0	0	2		
		Theme Project	0	0	0	2		Theme Project	0	0	0	2		
Total No of Credits			19	0	6	24	Total No of Credits			19	0	6	24	
SIP301 Summer Internship Program-II														
IV	Semester-VII						Semester-VIII							
	ME451	Special Project-I	0	0	0	3	ME425	Special Project-II	0	0	0	3		
	ME422	Unconventional Machining	3	0	0	3	ME430	Mechanical Measurement and Metrology	3	0	2	4		
		Program Elective II	3	0	0	3		Program Elective III	3	0	0	3		
		Open Elective II	3	0	0	3		Open Elective III	3	0	0	3		
	CRT305	Corporate Recruitment Training V	1	0	2	2	CRT306	Corporate Recruitment Training VI	1	0	2	2		
Total No of Credits			10	0	0	14	Total No of Credits			10	0	4	15	
Total No of Credits												181		

13/10/23



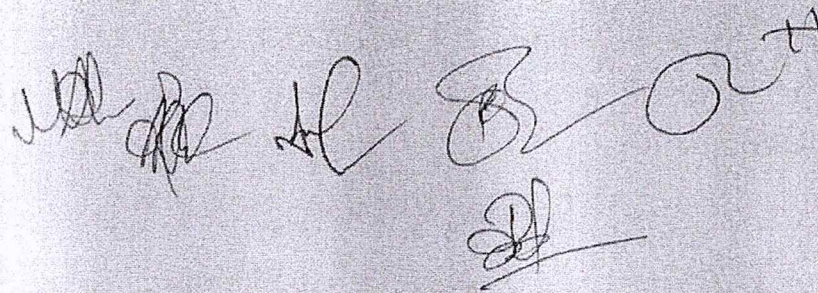
Sl No.		Program Elective I	L	T	P	U	SEM
1	ME332	Analysis and performance of fluid machines	3	0	0	3	SIXTH
2	ME425	Power Plant Engineering	3	0	0	3	SIXTH
3	ES301	Advanced Mechanics of Solids	3	0	0	3	SIXTH
		Program Elective II					
4	ME405	Heat Engine and Refrigeration System	3	0	2	4	SEVENTH
5	ME406	Fracture Mechanics	3	0	0	3	SEVENTH
6	ME411	Computational Fluid Dynamics	3	0	0	3	SEVENTH
7	ME304	Mechatronics	3	0	0	3	SEVENTH
		Program Elective III					
8	ME426	Automotive Engineering	3	0	0	3	EIGHTH
9	ME429T	Finite Element Methods	3	0	0	3	EIGHTH
10	ME401	Production planning and control	3	0	0	3	EIGHTH
11	ME431	Micro and Nano Manufacturing	3	0	0	3	EIGHTH

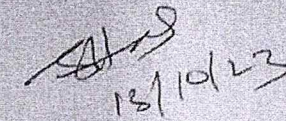
Sl. No.		Open Elective I	L	T	P	U	SEM
1	EC315	Control Systems	3	0	0	3	FIFTH
2	ME306	Automation and Robotics	3	0	0	3	FIFTH
3	ME310	Operations Research	3	0	0	3	FIFTH
		Open Elective II					
4	ME419	Quality assurance & Reliability	3	0	0	3	SEVENTH
5	ME407	Introduction to Nanotechnology	3	0	0	3	SEVENTH
6	ME408	Renewable Energy Sources	3	0	0	3	SEVENTH
7	ME409	Introduction to Tribology	3	0	0	3	SEVENTH
		Open Elective III					
8	ME423	Advances in Material Science	3	0	0	3	EIGHTH
9	ES402	Biomaterials	3	0	0	3	EIGHTH
10	ME432	3D Printing and Design	3	0	0	3	EIGHTH
		Digital Humanities (Eective)					
11	ES302	Social Innovation	3	0	0	3	SIXTH
12	ES303	Innovation & Entrepreneurship	3	0	0	3	SIXTH
13	ES304	AI and Humanities	3	0	0	3	SIXTH



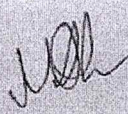
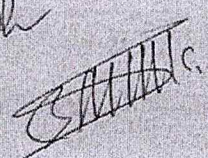

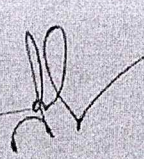
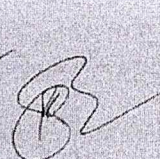
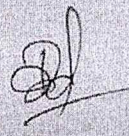
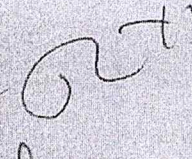
Sl No.	Course Name	Course Code	Pre-Requisite Course Name	Pre-Requisite Course Code
1	Mathematics II	MA121	Mathematics -I	MA111
2	Applied Thermodynamics	ME221	Thermodynamics	ES224
3	Mechanics of Solids	ME222	Engineering Mechanics	ES207
4	Computational Fluid Dynamics	ME411	Fluid Mechanics & Hydraulic Machines	ES208
5	Design of Machine Elements	ME308	Mechanics of Solids	ME222
6	Additive Manufacturing	ME328	CAD/CAM	ME305
7	Heat Engine and Refrigeration System	ME405	Applied Thermodynamics	ME221

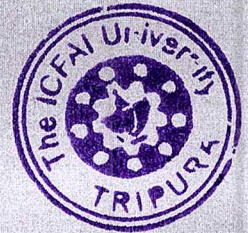


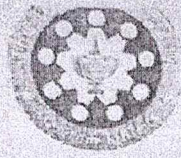




Total Credits for B.Tech, Mechanical Engineering = 181			
Sl. No	Course Category	Total Credit	No. of Courses
1	Basic Science Courses (Theory)	17	6
2	Engineering Science Courses (Theory)	29	9
3	Humanities Courses	12	3
4	Program Core courses (Theory)	69	20
5	Program Elective Courses (Theory)	9	3
6	Open Elective Courses (Theory)	9	3
7	Summer Internship Program	10	2
8	Special Project (I and II)	6	2
9	Corporate Recruitment Training	12	6
10	Theme Project	8	6
Total		181	60





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

Ref. No. : IUT/Reg/2023-24/D-241 (I)

Date: 22th Nov, 2023

Office Order

Sub.: Resolution of Academic Council meeting held on for Department of Mechanical Engineering

The extract from the aforesaid Notification is as under:

in the meeting of academic council, the proposed agenda of Board of Studies of Department of Mechanical Engineering are considered, confirmed and finally unanimously resolved and accepted, and put forth for execution.

Detail of Resolutions:

Resolutions: The Action Taken Report of the previously held meeting on 11/01/23 was approved by all the members.

Resolutions: In order to improve the performance of the B.Tech Students in the placement interviews, the following corporate training courses (CRT) has been introduced.

Batch wise course details are as:

1. Corporate Recruitment Training I, Corporate Recruitment Training II, Corporate Recruitment Training III, Corporate Recruitment Training IV, Corporate Recruitment Training V, and Corporate Recruitment Training VI: (For 2022-23 regular batch and 2023 -2024 lateral batch and For 2023-24 regular batch and 2024 -2025 lateral batch)

2. Corporate Recruitment Training I, Corporate Recruitment Training II, and Corporate Recruitment Training III: (For 2021-22 regular batches and, 2022-2023 lateral batches)

Lecture (L), Tutorial (T), Practical (P) and Unit (U) of each the course will be same as given in the table.

Lecture	Tutorial	Practical	Unit
1	0	2	2

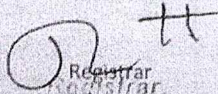
Resolutions: In order to improve the performance of B.Tech Students in project work, a theme project is included in the program structure so that the students get experience into an almost unlimited variety of amazing real-life topics, which makes learning much more fun and challenging.



Resolutions: It is taken into consideration that the course name have been approved in the last academic council held on 24/01/2023 but course name was not approved so all the members agreed to place in academic council for approval of the same.

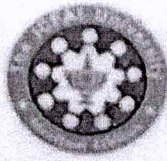
Resolutions: Department of Mechanical Engineering is going to offer three value added course namely-
1. Renewable energy resources and waste energy reduction, 2. Computer Aided Design, 3. E-Vehicles etc.
The program will be offered from the Academics session-2023. All the members agreed to it.

Dispatched and advised to Faculty/Department for action and compliance


Registrar,
ICFAI University Tripura
Kamalghat, Tripura (West)


Registrar,
ICFAI University Tripura
Kamalghat, Tripura (West)





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Faculty of Science and Technology

Civil Engineering Department

Minutes of meeting of Board of Studies (BOS), Civil Engineering Department, FST, IUT

Introduction

A meeting of the Board of Studies (BOS) of Civil Engineering Department, Faculty of Science and Technology was conducted on 13th April, 2023 (Thursday) at 4:00 PM on online platform regarding the newly introduction of M. Tech., in Structural Engineering specialization in the field of Civil Engineering.

Members present in the meeting were:

1. Dr. Prasanta Kumar Sinha, Principal, ITS, Faculty of Science & Technology, ICFAI University Tripura. (**Chairman, BOS**)
2. Dr. PalashDey, Assistant Professor & HoD, Civil Engineering Department, ITS, FST, ICFAI University Tripura. (**Member Secretary, BOS**)
3. Dr. Manish Sakhlecha, Professor, Civil Engineering Department, ITS, FST, ICFAI University Tripura. (**Internal Member**)
4. Prof. Ashim Paul, Assistant Professor, Civil Engineering Department, ITS, FST, ICFAI University Tripura. (**Internal Member**)
5. Dr. Prasenjit Saha, Assistant Professor, Civil Engineering Department, ITS, FST, ICFAI University Tripura. (**Internal Member**)
6. Prof. Supradip Saha, Assistant Professor, Civil Engineering Department, ITS, FST, ICFAI University Tripura. (**Internal Member**)
7. Dr. Purnendu Ray, Professor, Civil Engineering Dept., NIT Durgapur, Phone Number: 9434788037, Email ID: purnendu.ray@ce.nitdgp.ac.in, **External Member**
8. Dr. Partha Ghosh, Professor, Construction Engineering Dept., Jadavpur University, Phone Number: 9433112189 Email ID: parthaghosh.const@jadavpuruniversity.in/pghosh190678@gmail.com, **External Member**
9. Mr. Santanu Goswami, Chief Executive Officer, Electrosteel Castings Limited, Phone Number: 9771406841, Email ID: sngoswami@electrosteel.com, **External Member**:

Agenda for BOS meeting

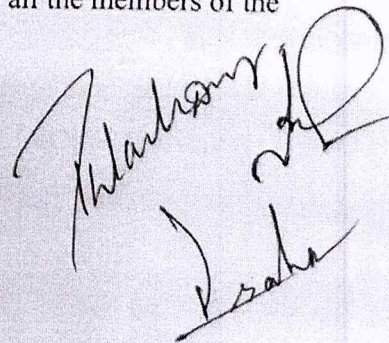
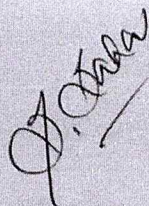
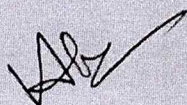
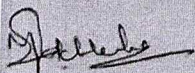
1. Finalization of program structure of newly proposed M. Tech. in Structural Engineering Specialization, Civil Engineering Department.
2. Credit distribution for M. Tech., Structural Engineering Program.

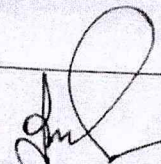
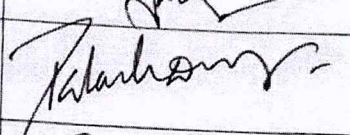
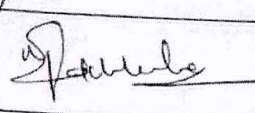
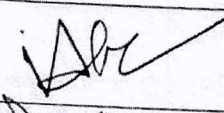
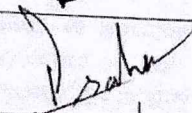
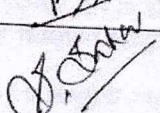
- Dr. Palash Dey, Member Secretary BOS and HoD, Civil engineering department, ITS, ICFAI University Tripura, initiated the meeting with an introductory note.
- Thereafter, Dr. Prasanta Kumar Sinha, Chairman BOS and Principal, ITS, ICFAI University Tripura, welcomed all External members in the said meeting.
- HoD presented the semester wise courses, electives offered and breaks up of entire course structure. He mentioned that the course structure proposed by University has been adopted based on academic and industrial requirements as well as the latest technology.

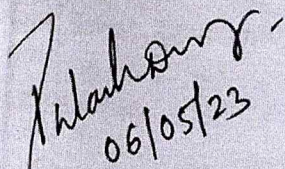
Resolution

- External members suggested the balancing of credits as per lecture hours for two subjects and for the remaining all subjects, the distribution of credit points was found satisfactory.
- External members also suggested to keep the seminar in both first and second semesters.
- It was recommended to include an introductory lecture on softwares before starting the Computer Aided Design Lab by keeping the credit point unchanged.
- Overall, the proposed design course structure found satisfactory by all the BOS members.

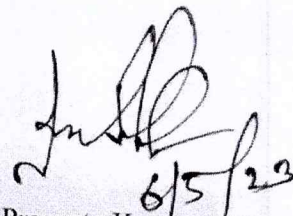
The meeting ended with vote of thanks by Dr. Prasanta Kumar Sinha to all the members of the BOS.



1	Dr. Prasanta Kumar Sinha	
2	Dr. Palash Dey	
3	Dr. Manish sakhlecha	
4	Prof. Ashim Paul	
5	Dr. Prasenjit Saha	
6	Prof. Supradip Saha	
7	Dr. Purnendu Ray	Joined online
8	Dr. Partha Ghosh	Joined online
9	Mr. Santanu Goswami	Joined online.


06/05/23

Dr. Palash Dey
Member Secretary (BOS)
HoD
Civil Engineering Department
Faculty of Science and Technology
ICFAI University, Tripura


6/5/23

(Dr.) Prasanta Kumar Sinha
Chairman (BOS)
Principal
Faculty of Science and Technology
ICFAI University, Tripura

The ICFAI University Tripura
Faculty of Science & Technology
Program Structure w.e.f 2023 (AY-2023-24) entry batch
M.Tech., Structural Engineering (SE), CE 2023-25 onwards batch

Total Credits of the Course: 80

Core Subjects: 6

Elective Subjects: 4

Seminar: 2

Project & Thesis: 2

Lab: 2

Semester-I

Sl. No	Course Code	Course Name	L	T	P	Credit
1	CEXXX	Dynamics of Structures	3	0	0	3
2	CEXXX	Theory of Elasticity & Plasticity	3	0	0	3
3	CEXXX	Advanced Structural Analysis	3	0	0	3
4	CEXXX	Elective-I	3	0	0	3
5	CEXXX	Elective-II	3	0	0	3
6	CEXXX	Concrete and Structural Engineering Lab	0	0	3	2
7	CEXXX	Seminar	-	-	-	3
Total contact hours/Credits			15	0	3	20

Semester-II

Sl. No	Course Code	Course Name	L	T	P	Credit
1	CEXXX	Advanced Structural Design	3	0	0	3
2	CEXXX	Theory of Elastic Stability	3	0	0	3
3	CEXXX	Finite Element Method	3	0	0	3
4	CEXXX	Elective-III	3	0	0	3
5	CEXXX	Elective-IV	3	0	0	3
6	CEXXX	Computer Aided Design Lab	0	0	3	2
7	CEXXX	Project Preliminary Seminar	-	-	-	3
Total contact hours/Credits			15	0	3	20

Semester-III

Sl. No	Course Code	Course Name	L	T	P	Credit
1	CEXXX	Project & Thesis-I	-	-	-	20
Total contact hours/Credits						20

Semester-IV

Sl. No	Course Code	Course Name	L	T	P	Credit
1	CEXXX	Project & Thesis-II	-	-	-	20
Total contact hours/Credits						20

Elective Bucket

Elective-I

Sl. No	Course Code	Course Name	L	T	P	Credit
1	CEXXX	Advanced Design of Pre-stressed Concrete	3	0	0	3
2	CEXXX	Soil Structure Interaction	3	0	0	3
3	CEXXX	Design of Bridge Structure	3	0	0	3

Elective-II

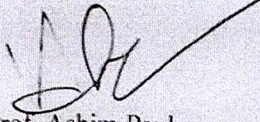
Sl. No	Course Code	Course Name	L	T	P	Credit
1	CEXXX	Seismic Analysis and Design of Structures	3	0	0	3
2	CEXXX	Optimization Techniques	3	0	0	3
3	CEXXX	Advanced Concrete Technology	3	0	0	3

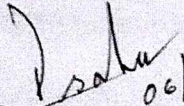
Elective-III


Sl. No	Course Code	Course Name	L	T	P	Credit
1	CEXXX	Machine Learning in Structural Engineering	3	0	0	3
2	CEXXX	Structural Health Monitoring	3	0	0	3
3	CEXXX	Repair and Rehabilitation of Structures	3	0	0	3

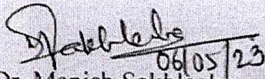
Elective-IV

Sl. No	Course Code	Course Name	L	T	P	Credit
1	CEXXX	Construction Management and Quality Control	3	0	0	3
2	CEXXX	Theory of Plates and Shells	3	0	0	3
3	CEXXX	Vibration Control Techniques	3	0	0	3


Prof. Ashim Paul
Internal Member


06/05/23
Dr. Prasenjit Saha
Internal Member

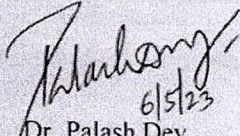

06/05/23
Prof. Supradip Saha
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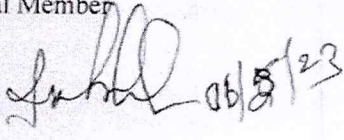

06/05/23
Dr. Manish Sakhlecha
Internal Member

(Through e-mail)
online mode
Dr. Purnendu Ray
External Member

(Through e-mail)
online mode
Dr. Partha Ghosh
External Member

(Through e-mail)
online mode
Mr. Santanu Goswami
External Member


6/5/23
Dr. Palash Dey
Member Secretary, BOS


06/05/23
Dr. Prasanta Kumar Sinha
Chairman, BOS