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:

SI.	Particulars Particulars
No.	
	Agenda 1: Approval of the Minutes of the previous BOS Meeting.
1	Consideration of Action Taken Report for approval of the previously held meeting on 22.03.2023.
	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
	Resolutions:
	The Action Taken Report of the previously held meeting on 22.03.2023 was approved
	by all the members.
2.	Agenda 2: Approval for the newly developed BA English (Major) Program structure (4-Year Degree) with credit distribution as per NEP 2020.
	Resolution:
	Dr. Gitanjali Roy, Member Secretary, claborately presented the program structure and syllabus of 1 st year (1 st semester & 2 nd semester) courses of the 4-year structure.

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

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

Resolution

Members suggested few changes in the course title as follows:

- be more appropriate and contemporary. 'Linguistic Proficiency in English' to 'Proficiency in English' as this title would
- Value Education & Ethics' to 'Introduction to Ethics' and to launch it as Value
- offer the course under Interdisciplinary subjects instead of Value-Added 'Indian Polity and Economy' to 'Indian Polity'. Recommendation was made to
- 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
- Recent Trends in Research & studies in English' to 'Recent Trends in English
- '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:

- provide proper guidelines (in written) regarding Credit transfer and evaluation process • Leanchade SWAYAM courses in the NEP structure, only if the University
- the course curriculum and provide exposure to the students. Specialized invited lecture for Discipline specific electives as it would enrich
- research paper in a journal, if possible recping components from Bibliography, journal writings, plagiarism cheek, Laperts suggested preparing template for dissertation students. He advised VII A Style sheet etc. which should culminate into publication of quality
- that the Project should produce a report of 4000-5000 words, followed by a viva 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

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

٢.

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

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.



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

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-

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

External Members-

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

Absentees:

- a. Dr. Anindita Chaudhuri, Associate Professor, Department of Psychology, Rajabazar Science College, University of Calcutta, Kolkata.
- b. Dr. Nandita Babu, Professor & Head, Department of Psychology, University of Delhi, Delhi.
- c. Dr. Urmi Nanda, Professor, School of Arts & Sciences, Ahmedabad University, Gujrat. **Invited Members:**
 - 1. Prof. Dr. Shubhasish Chatterjee (Dean, Academic Affairs, ICFAI University Tripura) Agenda of the meeting-
 - 1. Introducing the Psychology Courses of B.A./B.Sc. Psychology-Major and their placing in the 4 Years Degree Structure
 - 2. 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.
	Suggestions/recommendations for Semester-I
	Course 1 (FOUNDATIONS OF PSYCHOLOGY):
	 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





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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
- Professor P.K. Rath strongly recommended to include Health Psychology as a paper in
- 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
- Professor P.K. Rath advised to rename the 'Measures of Central Tendency' as 'Descriptive Statistics- Mean, Median, Mode, SD, AD'.





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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)

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

PMnble Jes Dr. Poonam Mukherjee 3227. 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)

A24 05 pa 2024 Dr. Amrita Banerjee Assistant Professor Dept. of Psychology Faculty of Liberal Arts ICFAI University, Tripura (Internal Member)



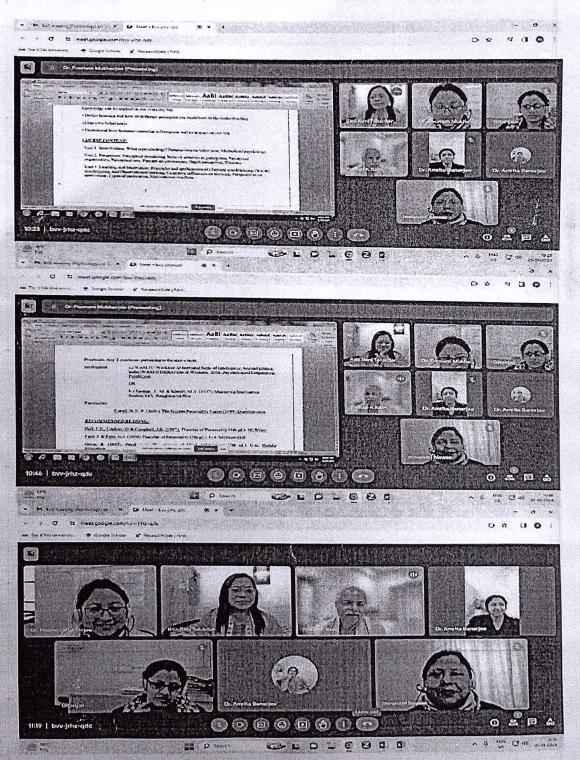


The ICFAI University, Tripura

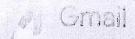
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Gitanjali <gitanjaliroy@iutripura.edu.in>

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-Pyschology 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

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]

Sat, Apr 6, 2024 at 1:15 PM

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

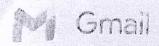
Prof Pratap K Rath [Quoted text hidden]

Mon, Apr 8, 2024 at 9:19 AM

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&simpl=msg-a:r412843475934729... 1/1





Gitanjali <gitanjaliroy@iutripura.edu.in>

Approval & Signature for Minutes of BoS (Psychology)

7 messages

Gitanjali <gitanjaliroy@iutripura.edu.in>

To: ritapsychology@gauhati.ac.in

Tue, Mar 12, 2024 at 4:01 PM

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

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

Tue, Mar 12, 2024 at 8:52 PM

Dear Gitaniali.

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] he sender of this mail is a manager extrese error and confirm of Caulian Amagera

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

https://mail.google.com/mail/u/0/?ik=a3c97954ad&vii

Tue, Apr 2, 2024 at 3:58 PM

Dear ma'am,

pt&search=all&permthid=thread-a:r3146534806447786952&simpl=msg-a:r-30331901359241... 1/2

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]

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

Tue, Apr 2, 2024 at 4:24 PM

Approved.

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

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]

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]

Tue, Apr 2, 2024 at 4:45 PM

Wed, Apr 3, 2024 at 1:48 PM



BA – PSYCHOLOGY (HONOURS) PROGRAM Batch 2020-2023

scribelcanage/			Pre	ogram Str	ructur	re		
	Sl.	Course	Semester-I	LPU	Sl.	Course	Semester-II	
	No.	No.			No.	No.	Semester-II	LPU
	1	PSY101	Foundations of Psychology	3 1 4	1	PSY103	Psychology: Issues and	3 1 4
7	2	PSY102	Psychology of Individual Differences	3 1 4	2	STAT101	Applications Statistical Methods for	3 1 4
YEAR-I	3	EG111	English Language Skills- I	3 1 4	3	EG112	Psychological Research English Language	3 1 4
X	4	PS121	Indian Government and Politics	3 1 4	4	PS122	Skills- II Indian Administration	3 1 4
	5	SC131	Introduction to Sociology	3 1 4	5	SC132	Foundation of Social	3 1 4
			TOTAL UNITS	20			Thought TOTAL UNITS	20
	62,744,564			Units				Units
	OI.		Project	The second secon	and the second second second	– 005)		
	Sl. No.	Course No.	Semester-III	LPU	Sl. No.	Course No.	Semester-IV	LPU
	1	PSY201	Development of Psychological Thought	3 1 4	1	PSY203	Understanding Psychological Disorders	3 1 4
	2	PSY202	Clinical Psychology	314	2	PSY204	SocialPsychology	314
YEAR-II	3	PS123	International Relations and Indian Foreign Policy	3 1 4	3	PS124	Political Thought and Theories	314
X	4	SC133	Indian Society	314	4	SC134	Methods in Social Research	3 1 4
	5	FR 234	Foreign Language	3 1 4	5	PKC233	Introduction to Computers	224
			TOTAL UNITS	20 Units			TOTAL UNITS	20 Units
			Project-2	2	(LPI	(J - 005)		
	Sl. No.	Course No.	Semester-V	LPU		Course No.	Semester-VI	LPU
	1	PSY301	Biopsychology	314	1	OBH321	Organizational Behavior	314
YEAR-III	2	PSY302	Developmental Psychology	3 1 4	2	PSY305	Educational Psychology	3 1 4
AF	2	DGX/202	Englishment of the second seco	314	3	PSY306	Psychological Research	3 1 4
YE	3 4	PSY303 PSY304	Positive Psychology Counselling Psychology	314	4	ENV222	Environmental Studies	404
. 69	5		Discipline Specific Elective (Specialization)	3 1 4	5		Choice Based Elective Course	3 0 4
			TOTAL UNITS	20 Units			TOTAL UNITS	20 Units

Total Units: 120 Units

Discipline Specific Elective (Specializations)

Sl. No.	Course No.	Course Title	LPU
1	HRM321	Human Resource Management	404
2	PSY307	Community Psychology	3 1 4



Faculty of Liberal Arts BA PSYCHOLOGY PROGRAM (As per NEP structure)

	CONTROL OF THE PROPERTY OF THE	OGRAN	IME	STRUCTURE	(4.4.1°V)	
	SEMESTER 1			SEMESTER II		
SI	Course Name	Credit Unit	SI	Course Name	Cred	
	Discipline Specific Core		10 mm	Discipline Specific Core		
1	Foundations of Psychology		1	Psychology – Issues and Applications	4	
2	Psychology of Individual Differences		2	Statistical Methods for Psychological Research	4	
	General Elective			General Elective		
3	Introduction to Sociology / Indian Government and Politics / Business Organisation and Management / Principles of Education	4	3	Foundation of Social Thought / Political Theory /Fundamentals of Marketing / Educational Psychology	4	
	Ability Enhancement Courses		Ability Enhancement Courses			
4	English Language Skills / Modern Office Management	4	4	Technical Writing / Linguistic Proficiency in English	3	
0.76	Skill Enhancement Courses	The state of		Interdisciplinary Courses		
5	Introduction to Computers / Fundamentals of Public Speaking / Introduction to Library & Information Sciences / Social & Business Etiquettes	2	5	Constitution of India /Chemistry in Daily life /Value Education & Ethics / Indian Society	3	
1	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	
Physical C	Total Credit	20		Total Credit		
	INTE	RNSHI	P.	- Vidi Citali	20	
	TOTAL CR	The state of the s			4 .	

Registrar, Tripura (West).

ICFAI University Tripura (West).

Kamalghat, Tripura



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Minutes of Meeting and Resolutions Board of Studies, Department of Civil Engineering, FST ICFAI University Tripura

Introduction

A meeting of board of members of Civil Engineering Department, faculty of science and technology was conducted on 04/09/2023 at 4:00 PM on virtual mode. Google Meet joining link: https://meet.google.com/bew-xihv-eay

Following members were present at the meeting:

- 1. Chaiman: Dr. Prashanta Kumar Sinha, Principal, ITS, Faculty of Science & Technology,
- 2. Member Secretary: Dr. Palash Dey, Assistant Professor & HOD, Civil Engineering Department, ITS, FST, ICFAI University Tripura
- 3. Member: Prof. Ashim Paul, Assistant Professor, Civil Engineering Department, ITS, FST,
- 4. Member: Dr. Ramu Debnath, Assistant Professor, Civil Engineering Department, ITS, FST,
- 5. Member: Prof. Bipul Sen, Assistant Professor, Civil Engineering Department, ITS, FST,
- 6. Member: Dr. Piya Biswas, Assistant Professor, Civil Engineering Department, ITS, FST,
- 7. External Member: Dr. Rajib Saha, Associate Professor, Civil Engineering Department, NIT 9436125024, Email rajib.iitbbsr@gmail.com rajib_2s123@rediffmail.com; ID:
- 8. External Member: Dr. Samir Bajpai, Professor, Civil Engineering Department, Head Training and Placement, NIT Raipur, Phone No: 9826167065, Email ID: sb@nitrr.ac.in
- 9. External Member: Mr. Bibek Ranjan Das, Director-Engineering, Synergy Industries Pvt Ltd, Phone No: 9830886619, Email ID: bibekrdas@gmail.com

HOD, CE initiated the meeting with an introductory note. Thereafter, Principal, ITS welcomed all External members in the said meeting.

> Registrat Tripura Kamalghat, Tripura (West).

Dr. Palash Dey, Assistant Professor & HOD Civil Engineering presented the agenda.

Agenda:

The agenda deliberated were discussed and following resolutions were passed:

- i. Review of existing B. Tech. program structure and syllabus
- ii. Addition of new courses in the existing B. Tech. program structure
- iii. Selection of list of value added courses
- iv. Miscellaneous

Iter No.	n Particulars
1	Agenda: Review of existing B. Tech. program structure and syllabus
	Resolutions:
	HoD, CE has thoroughly discussed the D. T.
2	HoD, CE has thoroughly discussed the B. Tech. existing as well as revised structures with course content. External members showed their consent for the given agenda.
2	Agenda: Addition of new courses in the existing B. Tech, program structure
	Resolutions:
	(a) Inclusion of Corporate Recruitment Training (CRT) courses in B. Tech CE
	The inclusion of Corporate Recruitment Training (CRT) courses in the curriculum of B. Tech Civil Engineering Second Third and Fourth was (Chi)
	credit courses with 02 unit and it was and Fourth year (Odd and Even Semesters) as
	(b) Inclusion of "Theme Projects" country in the external board members.
	The inclusion of "Theme Projects" courses in the curriculum. Engineering First, Second and Third year (both Odd and First Second
	Engineering First, Second and Third year (both Odd and Even Semesters) as credit courses was appreciated by the external board members. External members are proposed to the courses
	was appreciated by the external board members. External member also suggested to assign
3	students.
3	Agenda: Selection of list of value added courses
	Resolutions:
	Value added courses based on skill development entitled "Application of modern softwares in Civil Engineering" were proposed by external members to conduct in the conduction of modern softwares.
	in Civil Engineering" were proposed by external members to conduct in this academic year. The proposal for running value added courses was also highly are not in this academic year.
	members. Was also lightly appreciated by the external board
4	Agenda: Miscellaneous
	Resolutions:
	Course Code Approval of the
	Course Code Approval of the courses in the B. Tech CE new curriculum
1	THE COULDE COLLEGE IN THE COLLEGE IN THE THE
	2022-2026 program structure were assigned and approved by the competent authority of the University. The external board members also approved the same.
	also approved the same.

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

	1 5 4		1()
1	Dr. Prasanta Kumar Sinha		
2	Dr. Palash Dey		Tharland.
3	Prof. Ashim Paul	-	
4	Dr. Ramu Debnath		De M
5	Prof. Bipul Sen		Dan
6	Dr. Piya Biswas		Pe
7	Dr. Rajib Saha		Rayil Jale . DR. RAJIB SAHA Associate Professor Cívil Engineering Department
8	Dr. Samir Bajpai	,	Through e-mail
9	Mr. Bibek Ranjan Das	*	Por

Marhon

Dr. Palash Dey

Member Secretary (BOS)

HoD

Civil Engineering Department
Faculty of Science and Technology
ICFAI University, Tripura

VERSITY TOLOGO SCIENCE &

(Dr.) Prasanta Kumar Sinha

Chairman (BOS)

Principal

Faculty of Science and Technology

ICFAI University, Tripura

I truly express my gratitude to you for accepting our invitation.

This is a gentle reminder for today's BOS meeting scheduled at 4 p.m. The details of the meeting have been mentioned below:

Date: 04/09/2023 (Monday)

Time: 4 PM

Online platform: Google Meet

Link to join the meeting: https://meet.google.com/bew-xihv-eay

With Thanks & Regards

Dr. Palash Dey Assistant Professor HOD, Civil Engineering ICFAI University Tripura, Agartala

On Fri, Sep 1, 2023 at 5:08 PM Samir Bajpai <sb@nitrr.ac.in> wrote:
Dear Dr Palash,
Thank you for the invite. I confirm my participation.

Best regards

Samir Bajpai

(Dr Samir Bajpai)

Professor, Civil Engineering

NIT Raipur

G. E. Road, Raipur (Chhattisgarh) 492010

On Fri, Sep 1, 2023 at 4:34 PM Dr Palash Dey palashdey@iutripura.edu.in

Greetings from ICFAI University, Tripura

I hope and desire that you are in excellent health and spirit at this time.

In order to discuss the review of existing B. Tech. program structure a meeting has been scheduled for Monday, September 4, 2023, in Google Meet online meeting platform. We are very happy to invite you to this Board of Studies (BOS) meeting as an external member for your valuable suggestions and comments.

Kindly, find the following points for the agenda of the meeting.

Agenda of BOS meeting

- Review of existing B. Tech. program structure.
- Review of existing syllabus of the B. Tech. CE courses
- Addition of new courses in the existing B. Tech. program structure w.e.f., current Semester I, 2023-24.

IdFAI University Tripura Kamalghat, Tripura (West).

Selection of list of value added courses.

The details of the meeting have been mentioned below:

Date: 04/09/2023 (Monday)

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ICFAi University, Tripura Mail - Invitation letter to attend the Board of Studies (BOS) meeting of Civil Engineering Dept. ICFAI Unive...

Time: 4 PM

Online platform: Google Meet

Link to joint the meeting: https://meet.google.com/bew-xihv-eay

Thank you in advance.

With Thanks & Regards

Dr. Palash Dey Assistant Professor HOD, Civil Engineering ICFAI University Tripura, Agartala

5 attachments

MOM_BOS_Civil_2023.docx

Program Structure_CE_21-22.xlsx

Program Structure_CE_23-24.xlsx

Program Structure_CE_20-21.xlsx

Program Structure_CE_22-23.xlsx

Wed, Sep 27, 2023 at 5:39 PM

Samir Bajpai <sb@nitrr.ac.in>

To: Dr Palash Dey <palashdey@iutripura.edu.in>

Cc: "Dr. Prasanta Kumar Sinha" cc: "Dr. Prasanta Kumar Sinha" cprasantaksinha@iutripura.edu.in>, Ashim Paul <ashim.paul@iutripura.edu.in>, BIPUL SEN <bipul.sen@iutripura.edu.in>, "Dr. Piya Biswas" <piyabiswas@iutripura.edu.in>, Ramu Debnath

Dear Dr Dey,

I herewith approve the minutes of the meeting and program structures academic year-wise. Best regards

Samir Bajpai (Dr Samir Bajpai) Professor, Civil Engineering N I T Raipur

G. E. Road, Raipur (Chhattisgarh) 492010

On Wed, Sep 13, 2023 at 9:22 PM Dr Palash Dey <palashdey@iutripura.edu.in> wrote:

On behalf of the civil engineering department, I extend my sincere thanks to you for attending the BOS meeting scheduled on 04/09/2023 at 4:00 PM through online mode. We are extremely thankful to receive your valuable feedback and suggestions on the proposed agenda. We will definitely implement the suggestions for bringing improvements that will ultimately benefit the students and faculties of the department.

 $https://mail.google.com/mail/u/0/?ik=68c747e9b2\&view=pt\&search=all\&permthid=thread-a:r2965908413658505295\&dsqt=1\&simpl=msg-a:r-42742480... \end{array} \end{array} \begin{array}{ll} 7/9 & 1/9$



The ICFAI University Tripura Faculty of Science & Technology ICFAI Technical School Department of Civil Engineering

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Existing Total No. of Credits

Revised Total No. of Credits

Dr. Piya Biswas Member, IU

Dr. P. K. Sinha Chairman ITS, IUT

Prof. Ashim Paul Member, IUT

(Through e-mail)

Dr. Samir Bajpai

External Member

Prof. Ramu Debnath Member, IUT

Mr. Bibek Ranjan Das External Member

Prof. Bipul Sen Member, IUT

Dr. Palash Dey Member Secretary HoD, CE

Rayil Sulc

Dr. Rajib Saha External Member

The ICFAI University Tripura Faculty of Science & Technology ICFAI Technical School Department of Civil Engineering

Program Elective Course List

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1	Design and Drawing of Hydraulic Structures		
2	Design of Bridge Structures	1 1	4th
3	Finite Element Methods in Civil Engineering	1	4th
4	Ground Improvement Techniques	1	4th
5	Pavement Analysis and Design	I	4th
6	Advanced Structural Analysis	I	4th
	Analysis	I	4th
7	Pre-stressed concrete	II	4.9
8	Soil Dynamics and Machine Foundations		4th
9	Structural Dynamics	II	4th
10	Design of Industrial Structures	II	4th
11	Foundation Design	n	4th
		II	4th
	Urban Transport Planning	II	4th
13	Stability of Structures	II	4th

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Ground Improvement Techniques	1 1	4th
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Soil Dynamics and Machine Foundations	-	4th
Pavement Analysis and Design	II	4th
Design of Industrial Structures	II	4th
Foundation Design	11	4th
Urban Transport Planning	11	4th
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Open Elective Course List

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1	Disaster Preparedness & Planning	Seniester	Year
2	Infrastructure Financing	1	4th
3	Emerging trends on Civil Engineering	1	4th
4	Remote sensing and GIS	I	4th
;	Gao Informati I T	II	4th
-	Geo Informatics In Transportation engineering	II	4th
0	Energy and Global Environment	TT	Ath

Revised Program Structure for 2020-24 batch Course Name Year /Ath-Semester Disaster Preparedness & Planning Infrastructure Financing
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Emerging trends in Civil Engineering
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ot. Ashim Paul Member, IUT

Member, IUT (Through email)
Dr. Samir Bajpai
External Member Prof. Bipul Scn Member, IUT

Bor Mr. Bibek Ranjan Da External Member

Dr. Piya Biswas Member, IUT

Dr. Palash Dey Member Secretary HoD. CE

Dr. P. K. Sinha Chairman ITS, IUT

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

Rayil Sale.

Dr. Rajib Saha

The ICFAI University Tripura Faculty of Science & Technology ICFAI Technical School Department of Civil Engineering

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CE C	Course Code	HSS E Analys Geotec Design Design Transp Design Analysi	Course Name lective is of Structures II mical Engineering II of Concrete Structure II of Steel Structures II of Steel Structure II of Octoorete Structure II of Concrete Structure II of Concrete Structure Practical	33 33 33 33 30 0	33 33 33 33 33 33 34 34 34 34 34 34 34 3	222	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 6 3 6 3 6 6 5 6 6 6 6 6 6 6 6 6 6 6	CE3: CE3: CE3: CE3: CE3: CE4: CE3: CE4: CE3: CE3:	28 / 24 (27T [123] 19 T7P [17] 17 No. of C	Analysis Geotech Design o Design o Franspor Design o Analysis Corpora Tieme P Credits	Sective	0 0 0 0 0 0 0	0 0 0 0 0 0 3 3 2	1
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CE C	Course Code 3328 3324 3327T 323 419 327P 41 327P 6 3301 S Ourse	HSS E Analysi Credits HSS E Cotec Design Design Transp Design Analysi	Semester-II Course Name lective is of Structures II minical Engineering II of Concrete Structure II of Steel Structures II matation Engineering II of Concrete Structure Practical s of Structures Practical reference of Structure Practical s of Structures Practical Course Name Course Name	3 3 3 3 3 3 3 3 0 0 0 0 0 L	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	222	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	CE3: CE3: CE3: CE3: CE4: CE4: CE4: CE4: CE4: CE4: CE4: CE4	200 200	Analysis Geotech Design o Design o Franspor Design o Analysis Corpora Tieme P Credits	Semester-I	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 3 3 2 0	
CE C	Course Code 328 324 327 323 327 327 327 307 301 S S S S S S S S S S S S S	HSS E Analysi Geotec Design Design Transp Design Analysi Credits Hummer	Semester-II Course Name lective is of Structures II minical Engineering II of Concrete Structure II of Steel Structures II rotation Engineering II of Concrete Structure Practical s of Structures Practical * Internship Program-III Semester-I Course Name mental Engineering I	33 33 33 33 30 00 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 6 3 6 3 6 2 C C C C C C	CE33 CE33 CE33 CE33 CE33 CE41 CE32 CRT Cotal IP30 Cou Cou	28	Analysis Geotech Design of Design of Franspor Design of Analysis Corpora Tieme P Credits ummer	Semester-I	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 3 3 2	
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CE491 Special Project I 0 0 0 5 CE491 Special Project |
CRT302 Corporate Recruitment Training II
Total No. of Credits Total No. of Credits Semester-II L T P U Course Course Name Program Elective-II
Irrigation and Water Resource Engineering
Open Elective-II
Special Project II
Grand Viva
Environmental Engineering II
Environmental Engineering II Practical L T P U
3 0 0 3
3 0 0 3
3 0 0 3
3 0 0 5
0 0 6 5
0 0 0 6 2
3 0 0 3 7
1 0 2 7
2 2 2 Course Name 3 0 0 3 3 0 0 3 CE433 3 0 0 3 Program Elective-II
Irrigation and Water Resource Engineering
Open Elective-II CE492 GV401 0 0 0 5 CE492 0 0 0 2 GV401 3 0 0 3 CE452T 0 0 3 2 CE452P Special Project II Grand Viva CE452T CE452P CE452T Environmental Engineering II
CE452P Environmental Engineering II Practical
CRT303 Corporate Recruitment Training III
Total No. of Credits Total No. of Credits Existing Total No. of Credits Revised Total No. of Credits

fote: Yellow mark represents new course

Prof. Ashim Paul Member, IUT

Prof. Ramu Debnath Member, fUT

Dr. Piya Bişwa

Rajil Sale Dr. Rajib Saha External Member

(Through e-mail)

Dr. Samir Bajpai External Member

Por Mr. Bibek Ranjan Das External Member

Dr. Palash Dey Member Secretary HoD, CE

Dr. P. K. Sinha Chairman ITS, IUT

The ICFAI University Tripura Faculty of Science & Technology ICFAI Technical School Department of Civil Engineering

Program Elective Course List

	Existing Program Structure for 20	21-25 batch	
SI. No	Course Name	Semester	Year
1	Design and Drawing of Hydraulic Structures	T T	dali
2	Design of Bridge Structures	T	4th
3	Finite Element Methods in Civil Engineering	1	4th
4	Ground Improvement Techniques	1	4th
5	Pavement Analysis and Design	+ +	4th
6	Advanced Structural Analysis	1 7	4th
		1 - 1	4th
7	Pre-stressed concrete	II ·	4.1
8	Soil Dynamics and Machine Foundations	II	4th
9	Structural Dynamics		4th
10	Design of Industrial Structures	II	4th
11	Foundation Design	II	4th
	Urban Transport Planning	II	4th
13	Stability of Structures	II	4th
- 1	orderary of Structures	II	4th

Revised Program Structure for 20	21-25 batch	
Course Name	Samartan	Year
List of Courses for Program Ele	ctive - I	1 Cal
Design and Drawing of Hydraulic Structures		4th
Design of Bridge Structures	1 1	4th
Foundation Design	1	_
Ground Improvement Techniques	1	4th
Structural Dynamics	+ + +	4th
Advanced Structural Analysis	+++	4th
List of Courses for Program Elec	tive II	4th
Pre-stressed concrete	II I	
Soil Dynamics and Machine Foundations		4th
Pavement Analysis and Design	II	4th
Design of Industrial Structures	II	4th
Finite Element Methods in Civil Engineering	II	4th
Urban Transport Planning	II	4th
Stability of Ca-	11	4th
Stability of Structures	II	4th
Credont and		

*Student can choose only one course from elective bucket for Elective I and Elective II

Open Elective Course List

	Existing Program Structure for 202	0-24 batch	
Sl. No	Course Name	Semester	Year
1	Disaster Preparedness & Planning	I	4th
2	Infrastructure Financing	i i	
3	Emerging trends in Civil Engineering	+ +	4th
4	Remote sensing and GIS	1 1	4th
5	Geo Informatics In Transportation engineering	II	4th
6	Energy and Global Environment	II	4th
	Energy and Global Environment	II	4th

Revised Program Structure for 202	0-24 batch	
Course Name	Semester	Year
Disaster Preparedness & Planning	Ī	4th
Infrastructure Financing	Ť	4th
Emerging trends in Civil Engineering	1	
Remote sensing and GIS	1	4th
Geo Informatics In Transportation engineering	II	4th
Energy and Class III Transportation engineering	II	4th
Energy and Global Environment	II	4th

*Student can choose only one course from elective bucket for Elective I and Elective II

Prof. Ashim Paul Member, IUT

Ryil Sale. Dr. Rajib Saha External Member

Prof. Ramu Debnath Member, IUT

Through email

Dr. Samir Bajpai

External Member

Prof. Bipul Sen Member, IUT

Por

Mr. Bibek Ranjan External Memb

Dr. Palash Dey Member Secretary HoD, CE

Dr. P. K. Sinha ITS, IUT

The ICFAI University Tripura Faculty of Science & Technology ICFAI Technical School Department of Civil Engineering
Revised Program Structure

	Cou		B.Tech, CE 2022-20 Semester-I	26	& B	.Te	ch	CE ((Lateral Entr	ry) 2023-2026 Batch			
	MA		Mathematics I		1	- 1	P	U	Course Code				_
	ENG	103	English		3	3 0	0	3	MA121	Semester-II		L	1
	ESI	01	Basics of Electrical and Electronics		12		2	-	CHEM121	Mathematics II	-	-	┸
I	PHY	101	Physics Physics		3		1		ENV121	Chemistry	_	3	1
	CSEI	03	Introduction to DS and AI		3	2		4	ES122	Envrinonment Sciences		3	1
	CSEI	02	C- Programming		3		13		ENG120	Digital Signal Processing	-	2	9
		_	Audit Course I		3				TA122	Professional Communication	-	2	2
			Total No of Credits			1	+	+	ES124	Workshop	\dashv	3	0
					17	8	2	1	L3124	Engineering Graphics	-	2	2
	ES21	3 1	Semester-III ntroduction to IoT		-		1	+		Total No of Credits	-	16	4
	ES20	6 (Object Oriented P		3	0	3	-	CSE223	Semester-IV		16	10
	MA21		Object Oriented Programming Concepts Mathematics III		2	4				Web enabled Technologies	-	21	_
H	ECN20		Principles of Monay 117		3	0				Industry coding practice (Python and R)			2
**	ES207		rinciples of Managerial Economics			_	3	-		Water Resources Engineering			2
	CE201	S	urveying				3	-	CULLI	Soil Mechanics			0
	ES208	F	hid Mashari			-	3	-		Construction Materials and Practices	_		2
	CRT30	ı İc	luid Mechanics and Hydraulic Machine		_	-	4			MCCHanics of solide	_		2
		_	orporate Recruitment Training I		1			distant.		Corporate Recruitment Training II			2
		13.50	Total No of Credits	508	0	01	1	-	- 3	Theme Project	-		2
mer		_	Total No of Credits		20 1			-		And the second s	-	0 0)
rm			Summer	7775	-	_	_	_	I (SIP 101)	Total No of Credits	1:	5 1:	2
		-		-	11511	ip P	rog	gram	1 (SIP 101)			1-	7
1	CERRO	Or	en Elective-I	1			1			Semester-VI	0	0	1
H	CE303	Sti	uctural Analysis			1			D	Digital Humanities (Elective)			_
H	CE304	Ma	achine Learning Applications in Civil Engineering	1	-	4		C	-L330 D	esign of Steel State	3	0	T
1	CE305			12		2		C	E331 B	uilding Drawing, Estimation	3		t
- 1	CE306	POL	Indation Engineering	2		4	_	_ C	E332 D	uilding Drawing, Estimation, Costing and Valuation esign of Concrete Structures	3	2	t
-	CE307	Wa	ter Supply and Waste Water Engineering	3	_			C	E333 Ai	irports Railways and II	3	0	t
L	0.0900-0000	IMUC	II Course II	3	0	3		C	E*** Pr	irports, Railways and Harbour Engineering ogram Elective-I	3	0	t
13	CRT303	Cor	porate Recruitment Training III	1			200	CF	RT304 Co	reporate Recruitment Training IV	3	0	t
		The	inc i toject		2					reme Project	1	2	
_			Total No of Credits		0				1	AMIC I TOJECT	0		20.00
ier n				-	8		_			Total No of Credits	7.0		85
+		0	Summer Inte	ems	nip I	Prog	gran	m II	(SIP 201)	- Credits	19	4	2
		Drog									0	0	
F	NV401	FIOE	ram Elective-II		0		_		Ope	en Elective-III		U	
		Envi	ronmental Engineering		2		_	_	Pro	gram Elective-III		0	3
		Spec	ial Project-I				_		421 CA	D Practical		0	3
	COCTA	corpo	orate Recruitment Training V	_		3			456 Spe	cial Project-11	0	0	2
					2.1	2 1		CDT	E206	Section and the section of the secti	. 1	0	_
			Total No of Credits	1000			S. No.	CKI	F306 Corp	porate Recruitment Training VI	0	0 1	3
			Total No of Credits Total N	10	4 1	15		CKI	1306 Con	Training VI	_	2	2

Prof. Ashim Paul Member, IUT

Rajil Sale.

Dr. Rajib Saha External Member

Prof. Ramu Debnath Member, IUT

(Through e-mail)

Dr. Samir Bajpai External Member

Prof. Bipul Sen Member, IUT

USD Mr. Bibek Ranjan pas External Memb

Dr. P. K. Sinha Chairman ITS, IUT

Dr. Piya Biswas Member, IUT

Dr. Palash Dey Member Secretary HoD, CE

The ICFAI University Tripura Faculty of Science & Technology ICFAI Technical School

Department of Civil Engineering Revised Program Structure

B.Tech, CE 2022-2026 & B.Tech CE (Lateral Entry) 2023-2026 Batch

E0200	DIGITAL HUMANITIES (E	LE	C	TŃ	VE)	1	PROGRAMA	
ES302	Social Innovation	$\overline{}$	_	0 0	3	CE412	PROGRAM ELECTIVE-I	
ES303		_	-	Ó	3	CE224	Construction Planning and Management	300
ES304	Al and Humanities	_	-	_	_	CE334	Analysis and Design of Shallow and Door Family	300
	OPEN ELECTIVE	T 2	10	0	3	CE335	Finite Element Analysis	3 1 2
CE308	Intelligent Transport Systems	-	Ta	Ta	-	-	PROGRAM ELECTIVE-II	12/1/2/4
CE309	Infrastructure Financing			0		CE403	Ground Improvement Techniques	
	Third detaile I manering	<u> 1</u> 3	0	0	3	CE405	Urban Transport Planning	3003
	OPEN ELECTIVE-	П				CE410	Advanced Structural Analysis	3003
CE401	DISASTER MANAGEMENT AND MITIGATION	3	0	0	3		PROGRAM ELECTIVE-III	3 0 0 3
CE402	Numerical Methods	3	1	0	3	CE424	Design of Hydraulic Structures	
	OPEN ELECTIVE-I	II				CE425	Environmental Impact Assessment	3003
CE422	GIS AND REMOTE SENSING	_	0	Δ	2	CEASE	Environmental impact Assessment	3003
CE423	Optimization Techniques	3	-	0	3	CE426	Prestessed Concrete and Bridge Engineering	3003

Prof. Ashim Paul Member, IUT

Prof. Ramu Debnath Member, IUT

Member, IUT

Dr. Piya Biswas Member, IUT

Rayil Sale. Dr. Rajib Saha

External Member

(Through e-mais) Dr. Samir Bajpai External Member

Mr. Bibek Ranjan Das External Member

Dr. Palash Dey Member Secretary HoD, CE

Dr. P. K. Sinha Chairman ITS, IUT

The ICFAI University Tripura Faculty of Science & Technology ICFAI Technical School

Department of Civil Engineering Revised Program Structure
B.Tech, CE 2023-2027 & P. Took CE W.

	1 6	B.Tech, CE 2023-2027	& B.	Tec	h C	E (L	ateral Entry	2024-2027 Retab			
Year	Course Code	Semester-I			P	U	Course Cod		1	. T	
	MA111		1	3	0	3		ocinester-II	1	L	P
		3 English	_	_	2	3	MA121 CHEM121	Mathematics II		3	0
	ES101	The state of Electrical and Electronics	1	_	2	4	ENV121			3	2
I	PHY101	Physics	+	-	2	4		Envrinonment Sciences	1	2	0
	CSE103		3	_	0	3	ES122	Digital Signal Processing	1	2	2
	CSE102	C- Programming	3	_	2	4	ENG120	Professional Communication	3	_	0
		Audit Course I	13	+	-	4	TA122	Workshop	1 2	2	2
		Theme Project	C	10	0	10	ES124	Engineering Graphics	1	_	4
		Total No of Credits	1	150 Block	Address Print	22		Theme Project	C		0
		Semester-III	11	1	8	22		Total No of Credits	10	6 1	
	ES213	Introduction to IoT	1 2	Т.	~	_		Semester-IV		٠, ١	0
	ES206	Object Oriented Programming Concepts.	. 3	-	_	3	CSE223	Web enabled Technologies	1 2	1	2
	MA211	Mathematics III	2	_	_	4	ES225	Industry coding practice (Python and R)	2	_	_
п		Principles of Managerial Economics	3	-	-	3	CE226	Water Resources Engineering	3	-	-
11	ES207	Engineering Mechanics	3	C		3	CE227	Soil Mechanics	3		0
	CE201	Surveying Surveying	3	0		3	CE228	Construction Materials and Practices	-	-	-
	ES208		2	2		3	ME222	Mechanics of solids	3	-	_
	CRT301	Fluid Mechanics and Hydraulic Machine	3	2		4	CRT302	Corporate Recruitment Training II	2	-	
	CRISOT	Corporate Recruitment Training I Theme Project	1	2		2		Theme Project	1	2	4.0
		Treat No. 200	0	0		1.		1.0]501	0	0)
mmer	T	Total No of Credits	20	10) 2	6		Total No of Credits		_	
erm		Summer Ind			_			Total No of Credits	16	12	2 2
erm			ernsi	nıp .	Prog	gram	I (SIP 101)		0	0	1
		Semester-V Open Elective-I						Semester-VI			_
- 1	CE303	Structural Analysis	3	0	3	3		Digital Humanities (Elective)		_	_
1		Machine Learning Analisis	3	2	4	1	CE330	Design of Steel Structures	3	0	+-
	CE305	Machine Learning Applications in Civil	2	0	2		CE331	Building Drawing, Estimation, Costing and	3	0	_
ш	CE306	Highways and Tunnel Engineeing	3	2	4		CE332	Design of Concrete Structures	-	2	_
ŀ	CE306	Foundation Engineering	3	2	4		CE333	Airports, Railways and Harbour	3	0	_
-	CE307	Water Supply and Waste Water Engineering	3	0	3		CE***	Program Elective-I	3	0	3
-		Audit Course II				500 500	CRT304	Company December 1	3	0	3
P	CRT303	Corporate Recruitment Training III	10	2	2	10	CICIOG	Corporate Recruitment Training IV Theme Project	1	2	2
		Theme Project	0	0	2	7.65		Frience Project	0	0	2
		Total No of Credits	18	8	36417.034	130					
nmer		2		-		_		Total No of Credits	19	4	23
erm		Summer Inter	nship	p Pr	ogra	am [l (SIP 201)		0	0	5
		Open Elective-II	3	0	3	T	1/	Ones El vi vi		١	3
v	- I	Program Elective-II	3	0	3	+	1	Open Elective-III	3	0	3
-	ENV401 I	Environmental Engineering	-	2	4	+	CE421 (Program Elective-III	3	0	3
100	CE455 S	Special Project-I	-	0	3	+		CAD Practical	0	0	2
125	CRT305	Corporate Recruitment Training V	_	-	2	766		Special Project-II	0	0	3
		Total No of Credita	_	4	15	1860	CRT306	Corporate Recruitment Training VI	_	2	2
										8-1603	05.00
		Total No						Total No of Credits	7	2	13

Note: Yellow mark represents new course

Prof. Ashim Paul Member, IUT

Dr. Rajib Saha

External Member

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(Through email)

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ITS, IUT

The ICFAI University Tripura Faculty of Science & Technology ICFAI Technical School Department of Civil Engineering Revised Program Structure

B.Tech, CE 2022-2026 & B.Tech CE (Lateral Entry) 2023-2026 Batch

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	DIGITAL HUMANITIES (F	CLI	EC	TIX	/F)			
ES302	Social Innovation	T	3		1 2	CEALS	PROGRAM ELECTIVE-I	
ES303	The ration & Littlepreneurshin	+	2 /	00	3	CE413	Construction Planning and Management	121010
ES304	Al and Humanities	_	_	00	3	CE334	Analysis and Design of Shallow and Day 5	300
	OPEN ELECTIVE	_T	210	010	3	CE335	Finite Element Analysis	3 0 0
CE308	Intelligent Transport Systems		10) I o	-	CELOS	PROGRAM ELECTIVE-II	13/1/2
CE309	Infrastructure Financing	_	_	0	3	CE403	Ground Improvement Techniques	121010
	OPEN ELECTIVE-	TY	10	0	3	CE405	Urban Transport Planning	300
	DISASTER MANAGEMENT AND		Т	1		CE410	Advanced Structural Analysis	3 0 0
CE401	MITIGATION	3	0	0	3		PROGRAM ELECTIVE-III	12/0/0/
CE402	Numerical Methods	12	1	0	2	OFICE	TROGRAM ELECTIVE-III	
	OPEN ELECTIVE-I	뀨	11	In	3	CE424	Design of Hydraulic Structures	[2]0[0]
CE422	GIS AND REMOTE SENSING	_	10	IAT	_	CE425	Environmental Impact Assessment	300
CE423	Optimization Techniques	3	0	0	3	CE426	Prestessed Concrete and Bridge Engineering	3 0 0
200	1 1 1 1 1 1	13		U	3	1	, , , , , , , , , , , , , , , , , , , ,	13/0/0/

Prof. Ashim Paul Member, IUT

Rayil Sale

Dr. Rajib Saha External Member Prof. Ramu Debnath Member, IUT

Through e-mail

Dr. Samir Bajpai External Member

> Dr. P. K. Sinha Chairman ITS, IUT

Prof. Bipul Sen

Member, IUT

Mr. Bibek Ranjan Das External Member

Dr. Piya Biswas Member, IUT

Dr. Palash Dey Member Secretary HoD, CE



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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, Tol: 0381-2865752/62, Fax: 0381-2865754 Website: www.iutripura.edu.in, Email: registrar@iutripura.edu.in

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)
- 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. PrasenjitSaha, Assistant Professor, Civil Engineering Department, ITS, FST, ICFAI University Tripura.(Internal Member)
- 6. Prof. SupradipSaha, 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:

Shirle

Mr

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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.

Halle-

Day

Joseph Markson



1	Dr. Prasanta Kumar Sinha	
2	Dr. Palash Dey	gm.
3	Dr. Manish sakhlecha	Kalanhan -
4	Prof. Ashim Paul	Paule
5	Dr. Prasenjit Saha	Doc
6	Prof. Supradíp Saha	Voulu
7	Dr. Purnendu Ray	J. J.
		Joined Online
8	Dr. Partha Ghosh	Joined online
9	Mr. Santanu Goswami	Joined online.

Mah 23

Dr. Palash Dey

Member Secretary (BOS)

HoD

Civil Engineering Department
Faculty of Science and Technology
ICFAI University, Tripura

(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	1-			
2	CEXXX	· · · · · · · · · · · · · · · · · · ·	3	0	0	3
3	CEXXX	Theory of Elasticity & Plasticity	3	0	0	3
4		Advanced Structural Analysis	3	0	0	3
	CEXXX	Elective-I	3	0	0	3
5	CEXXX	Elective-II	3			
6	CEXXX	Concrete and Structural E.	3	0	0	3
		Concrete and Structural Engineering Lab	0	0	3	2
7	CEXXX	Seminar		1.1		
		Total control 1		-	•	3
		Total contact hours/Credits	15	0	3	20

Semester-II

SI. No	Course Code	Course Name	L	Т	P	Credit
1	CEXXX	Advanced Structural Design	-			
2	CEXXX		3	0	0	3
3	CEXXX	-5 -1 Blastie Stability	3	0	0	3
			3	0	0	3
4	CEXXX	Elective-III	3	0	0	
5	CEXXX	Elective-IV	3			3
6	CEXXX	Computer Aided Design Lab		0	0	3
7	CEXXX		0	0	3	2
		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

		Course Name	L	Т	P	Credit
<u>l</u>	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

SI. 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	Т	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	Course Name	141			
	Code	- Surse Name	L	T	P	Credit
1	CEXXX	Construction				
		Construction Management and Quality	3	0	0	3
2	CEXXX	Theory of Plates and Shells				
3	CEXXX	Wil a lates and Shells	3	0	0	3
	1	Vibration Control Techniques	3	0	0	3

Prof. Ashim Paul Internal Member

Dr. Manish Sakhlecha Internal Member

(Through e-mail) Ordine mode

Mr. Santanu Goswami External Member Dr. Prasenjit Saha Internal Member

(Through e-mail) Online mode

Dr. Purnendu Ray External Member

Dr. Palash Dey

Member Secretary, BOS

Prof. Supradip Sana Internal Member

(Through email) Online mode

Dr. Partha Ghosh External Member

Dr. Prasanta Kumar Sinha Chairman, BOS



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Date: <u>04.08.2023</u>

Minutes of Meeting and Resolutions

Board of Studies, Department of Chemistry

Introduction:

A meeting of the Board of Studies, Department of Chemistry, ICFAI University, Tripura was held on 04.08.2023 at 3:30 P.M. on the zoom platform. Dr. Priyangshu Rana Borthakur, Dean, FST chaired the meeting.

Following members were present at the meeting:

- 1. Prof. Dr. Priyangshu Rana Borthakur, Member Chairman
- 2. Prof. Dr. Swarnali Nath Choudhury, Member Secretary
- 3. Dr. Ganesh Chandra Paul, Member
- 4. Dr. Soumendra Nath Bandyopadhyay, Member
- 5. Dr. Tufan Singha Mahapatra, Member
- 6. Dr. Subhadip Roy, Member
- 7. Prof. Dr. Asoke Prasun Chattopadhyay, External Member
- 8. Dr. Sudip Choudhury, External Member
- 9. Dr. Anindya Chatterjee, External Member

Grant of leave of absence (if any):

Nil.

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 05.01.2023. The action taken report of the last BOS meeting held on 05.01.2023 was discussed after the approval from the Academic council. Resolutions: The Action Taken Report of the previously held meeting on 05.01.2023 was approved by all the members.
2	Agenda: NEP Course Structure for AY 2023-24. Resolutions: i. The different entry and exit options were discussed with the BOS members for the four-year UG programme (Annexure attached). All the members agreed to the currently presented MEME options for implementation. The students are to be encouraged for completion of three and four-year B.Sc. programme. ii. The NEP structure (Annexure attached) was presented before the BOS members which was agreed upon and approved by all the BOS members. iii. Dr. Sudip Choudhury suggested that as per the UGC guideline in March 2023, students are to be encouraged to take (at least) 5% of the total credit on the courses on Indian Knowledge System (IKS). Two of the relevant courses to chemistry students can be: A) Indian Metallurgy: Syllabus can contain ancient metallurgy originating in India. B) Indian Health Science: Syllabus can contain Natural Products originating from ancient Indian culture including Ayurveda. iv. Dr. Sudip Choudhury suggested that students should be encouraged to take online courses from the online courses available in the Swayam portal. v. Dr. Soumendra Nath Bandyopadhyay suggested that more
,	Departmental Elective Courses (DSE) can be offered based on availability of

					o, students can take courses front of the total credit in a semester).		way	yam	of
3	Agend Offeri Stude	ing Bio	ochemistry	as Gener	al Elective subject to the Che	mistr	у Н	lond	ours
	Resolutions: i. All the members of the BOS agreed and approved on offering Biochemistry as an elective subject that can be chosen by any student from the Department of Chemistry as well as students from other programmes.								
4		ssion o			ubjects offered by the Department	of Cl	nem	istr	y in
	i. earlie	utions: Th r for th nali Na	e syllabi (A norough ve	Annexure erification. nury in the	attached) were shared with the The same was presented by H.G e BOS meeting on behalf of the	O.D. 1	Pro	f. (I	Or.)
	įs.	A	(DSC1		ented as Department Specific were appreciated and approve ions.				
	SL	SEM	CATEGORY	CODE	NAME	L	T	P	U
	1	I	DSC 1	CHE103	INTRODUCTION TO ORGANIC CHEMISTRY I	3	0	2	4
	2	I	DSC 2	CHE104	INTRODUCTION TO PHYSICAL CHEMISTRY I	3	0	2	4
	3	II	DSC 3		INTRODUCTION TO INORGANIC CHEMISTRY I	3	0	2	4
5	4	11 .	DSC 4		INTRODUCTION TO PHYSICAL CHEMISTRY II	3	0	2	4

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B) The syllabi presented as General Electives (GE1 to GE2) in

Chemistry offered by the Department of Chemistry were appreciated and approved by the BOS members.

SL	SEM	CATEGORY	CODE	NAME	L	T	P	U
1	I	GE 1		INTRODUCTION TO GENERAL CHEMISTRY I	4	0	0	4
2	II	GE 2		INTRODUCTION TO GENERAL CHEMISTRY II	3	0	2	4

C) The syllabus of the General Biochemistry courses for the first two semesters were presented and approved with suggestions for modification in the practical component of the GENERAL BIOCHEMISTRY II.

SL	SEM	CATEGORY	CODE	NAME	L	T	P	U
1	I	GE 1	CHE105	GENERAL BIOCHEMISTRY I	3	0	2	4
2	II	GE 2		GENERAL BIOCHEMISTRY II	3	0	2	4

- Prof. Dr. Asoke Prasun Chattopadhyay suggested the book by Anil J. Elias on practicals related to biochemistry can be consulted for inclusion. One such practical experiment can be: Extraction of Chromosomes of Peas.
- Prof. Dr. Asoke Prasun Chattopadhyay, Dr. Sudip Choudhury, and Dr. Anindya Chatterjee Suggested that some practicals related to gel electrophoresis can be included in the syllabus of GENERAL BIOCHEMISTRY II.
- D) The syllabus presented for Value Added Course (VAC1) offered by the Department of Chemistry: Environmental Studies (ENV223) was approved without any modification.

SL	SEM	CATEGORY	CODE	NAME	L	T	P	U
1	I	VAC	ENV223	ENVIRONMENTAL STUDIES	3	0	2	4

E) Syllabus for Interdisciplinary courses (IDC1): CHEMISTRY IN

DAILY LIFE offered by the Department of Chemistry (for nonscience background students) were discussed and approved without any change.

SL	SEM	CATEGORY	CODE	NAME	L	T	P	U
1	I	IDC 1		CHEMISTRY IN DAILY LIFE	3	0	0	3

F) The syllabus for the Skill Enhancement Course (SEC) offered by the Department of Chemistry in SEM II was appreciated and approved by the BOS members.

SL	SEM	CATEGORY	CODE	NAME	L	T	P	U
1	II	SEC 2		FOOD AND NUTRITION	2	0	2	3

5 Agenda

Evaluation Scheme.

Resolutions:

- i. The evaluation schemes were discussed for courses with:
 - a. only theory component
 - b. only practical component
 - c. both theory and practical components.

The evaluation scheme was appreciated and approved without any change (Annexure attached).

7

Any other with permission of chair

It was suggested that laboratory and library facilities are to be enriched to support the General Biochemistry elective courses (GE).

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

(Name and e-Signature of all Members) Prof. (Dr.) Priyangshu Rana Borthakur Dr. Swarnali Nath Choudhury (Chainnan) Professor, Dean (FST), ICFAI University (Member Secretary) Professor, H.O.D. Chemistry, ICFAI Tripura University Tripura Ganes Churchen Paul Dr. Ganesh Chundra Paul Dr. Soumendra Nath Bandyopadhyay Assistant Professor, Department of Assistant Professor, Department of Chemistry, Chemistry, ICFAI University Tripura ICFA1 University Tripura Tu fan Singhe Mchapatra Dr. Tufan Singha Mehapatra Lashadip Rof Dr. Subhadip Roy Assistant Professor, Department of Assistant Professor, Department of Chemistry, Chemistry, ICFAI University Tripura ICFAI University Tripura Aude brown Chattopalmons Prof. (Dr.) Asoke Prasun Chattopadhyay Professor, Dept. of Chemistry, University of Dr. Sudip Choudhury Associate Professor, Dept. of Chemistry, Kalyani, West Bengal Assam University, Shilehor, Assam Anendya Chattagee Dr. Anindya Chatterjee Scientist, TCG Lifesciences Private Limited, Salt Lake Electronics Complex, Kolkata, West Bengal Registrar, ICFAI University Tripura Kamalghat, Tripura (West).



DEPARTMENT OF CHEMISTRY

FACULTY OF SCIENCE AND **TECHNOLOGY**

ICFAI UNIVERSITY TRIPURA

SCHEME SYLLABUS B. Sc CHEMISTRY (HONS.)



COURSE STRUCTURE

1st Year Semester I

Sl. No.	Course Code	Course Name	T	P	TI
1	CHEIIIT	INORGANIC CHEMISTRY I (ATOMIC STRUCTURE AND CHEMICAL BONDING)	4	0	4
2	CHE112T	PHYSICAL CHEMISTRY I (STATES OF MATTER AND IONIC EQUILIBRIUM)	4	0	4
3	CHE113T	ORGANIC CHEMISTRY I (BASICS AND HYDROCARBON)	4	0	4
4	CHE114P	CHEMISTRY LAB I (INORGANIC, PHYSICAL, ORGANIC)	0	6	4
5	EGL111	ENGLISH LANGUAGE SKILLS	Ů		7
6	PHY115T	GENERAL PHYSICS I	_ 4	0	3
7		GENERAL MATHEMATICS I	3	0	3
		- STATION WATHERNATICS I	3	0	3
		TOTAL			25

1ST Year Semester II

SI. No.	Course Code	Company			
1	CHE121T	ORGANIC CHEMISTRY II (OVINCE)	L	P	U
2	CHE122T	CONTAINING FUNCTIONAL GROUPS) INORGANIC CHEMISTRY II (s- AND p-	4	0	4
		BLOCK ELEMENTS) PHYSICAL CHEMISTRY II (CHEMICAL THERMODYNAMICS AND p-	4	0	4
3		THERMODYNAMICS ANDS ITS APPLICATIONS)	4	0	4
4	CHE124P	CHEMISTRY LAB II (DIODG 1)			1
5	ENV222	TIT DICAL, URGANICI	0	6	4
6	2415	ENVIRONMENTAL STUDIES GENERAL PHYSICS II	4	0	4
	MAT125T	GENERAL MATHEMATICS II	3	0	3
			3	0	3
	8	TOTAL			26

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Course Cade	Course Name	L	P	U
Course Code		0	Λ	5
DCCID101	CLIMMED INTERNSHIP PROGRAM I	0	U	1
	Course Code BSCIP101	Course Code Course Name RSCIP101 SLIMMER INTERNSHIP PROGRAM I	Course Code Process AM I	

2nd Year Semester III

Sl. No.	Course Code	Course Name	L	P	U
1	CHE211T	INORGANIC CHEMISTRY III (COORDINATION CHEMISTRY)	4	0	4
2	CHE212T	ORGANIC CHEMISTRY III (HETEROCYCLIC CHEMISTRY)	4	0	4
3	CHE213T	PHYSICAL CHEMISTRY III (PHASE EQUILIBRIA AND ELECTROCHEMICAL CELLS)	4	0	4
4	CHE214P	CHEMISTRY LAB III (INORGANIC, PHYSICAL, ORGANIC)	0	0	6
5	PHY216T	GENERAL PHYSICS III	0	6	4
6	PHY217P	GENERAL PHYSICS LAB	0	3	2
7	MAT214T	GENERAL MATHEMATICS III			
		TOTAL			24

2nd Year Semester IV

Sl. No.	Course Code	Course Name	T,	P	I	
1	CHE221T	INORGANIC CHEMISTRY IV	T -	<u> </u>		
-	CHEZZII	(ORGANOMETALLIC CHEMISTRY)	4	0	4	
2	CHE222T	ORGANIC CHEMISTRY IV			<u> </u>	
		(SPECTROSCOPY)	4	0	4	
		PHYSICAL CHEMISTRY IV				
3	3 CHE223T	(CONDUCTANCE AND CHEMICAL	4	0	4	
	E	KINETICS)	7	0	4	
4	CHE224P	CHEMISTRY LAB IV (INORGANIC,				
		PHYSICAL, ORGANIC)	0	6	4	
5	PHY226T	GENERAL PHYSICS IV	2			
6	MAT224T	GENERAL MATHEMATICS IV	3	0	3	
7	SSU354	SOFT SKILLS	3	0	3	
			2	1	3	
		TOTAL			25	

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Summer

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Sl. No.	Course Code	Course Name	10	0	5	
1	BSCIP201	SUMMER INTERNSHIP PROGRAM II				Į.

3rd Year Semester V

Sl. No.	Course Code	Course Name	L	P	U
1	CHE311T	ORGANIC CHEMISTRY V (BIOMOLECULES)	4	0	4
2	CHE312T	PHYSICAL CHEMISTRY V (QUANTUM CHEMISTRY AND SPETROSCOPY)	4	0	4
3	СНЕЗ13Р	CHEMISTRY LAB V (ORGANIC AND PHYSICAL)	0	6	4
4		ELECTIVE I (CORE)	X	X	4
5		ELECTIVE II (OPEN)	4	0	4
		TOTAL			20

3rd Year Semester VI

Sl. No.	Course Code	Course Name	T =	T =	
1	CHE321T	APPLICATIONS OF COMPUTER IN	L	P	U
	CHESZII	CHEMISTRY	3	3	4
2	CHE322T	ANALYTICAL METHODS IN	-	-	<u> </u>
		CHEMISTRY	4	0	4
3	CHE323P	CHEMISTRY LAB VI (ANALYTICAL			<u> </u>
1		METHODS IN CHEMISTRY	0	6	1
4		ELECTIVE III (CORE)			7
5		ELECTIVE IV (OPEN)	X	X	4
			4	0	4
		TOTAL			20

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SEMESTERWISE CREDIT DISTRIBUTION

		Unit
Sl. No.	Semester	25
1	SEMESTER I	26
2	SEMESTER II	5
3	SUMMER	3
4	SEMESTER III	24
5	SEMESTER IV	25
6	SUMMER	5
7	SEMESTER V	20
0	SEMESTER VI	20
0	GRAND TOTAL	150

OFFERED COURSE TYPE

Sl. No.	Course Type	Total No.	U
1	COUMPULSORY CORE COURSE	21	84
2	ELECTIVE CORE COURSE	2	8
3	OPEN ELECTIVE COURSE	2	8
4	COMPUTER CORE COURSE	1	4
5	ABILITY ENHANCING COURSE	2	6
6	BASIC SCIENCE COURSE	10	30
7	SUMMER INTERNSHIP PROGRAM	2	10
	GRAND TOTAL	40	150



DEPARTMENT OF CHEMISTRY

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COURSE STRUCTURE

1st Year Semester I

Sl. No.	COUC	Course Name	_		
1	CHE511T	INORGANIC CHEMISTRY I	L	P	U
2	CHE512T	OPCANIC CHEWISTRY I	4	0	4
3		ORGANIC CHEMISTRY I	4	0	4
1	CHE513T	PHYSICAL CHEMISTRY I	1	0	1
	CHE514T	GENERAL CHEMISTRY	7	0	4
5	CHE515P	IORGANIC CHEMISTRY PRACTICAL	4	0	4
6		C. PROCE AND CONTROL PRACTICAL	0	6	4
7		C – PROGRAMMING	3	0	3
	MA521P	C – PROGRAMMING PRACTICAL	0	2	
				3	2
		TOTAL			25

1ST Year Semester II

Sl. No.	Course Code	Course N		•	
1	CHE521T	Course Name ORGANIC CHEMISTRY II	L	P	U
2	CHE522T	INORGANIC CHEMISTRY II	4	0	4
3	CHE523T	PHYSICAL CHEMISTRY II	4	0	4
4		QUANTUM CHEMISTRY AND	4	0	4
4	CHE524T	MOLECULAR SPECTROSCOPY	1	^	
5	CHE525P	IORGANIC CHEN GERRAL	4	U	4
		IORGANIC CHEMISTRY PRACTICAL	0	6	4
		TOTAL			20

Summer

Sl. No.	Course Code	Convey N.			
1	MSCIP101	Course Name SUMMER INTERNSHIP PROGRAM	L	P	U
		PROGRAM	0	0	10

2nd Year Semester III

CI DT		The state of the s			
SI. No.	Course Code	Course			
2	CHE611T	APPLICATION OF SPECTROSCOPY	L	P	U
3	CITY	TONUANIC CHEMISTRY III	4	_ 0	4
4	CITTO	ORGANIC CHEMISTRY III	4	0	4
5	CT-20141	PHYSICAL CHEMISTRY III	4	0	4
6	JILO13P	PHYSICAL CHEMISTRY DD A CONGLE	4	0	4
		ELECTIVE I (CORE)	0	6	4
		TOTAL	4	0	4
		IUIAL			24

2nd Year Semester IV

CI				
SI. No. Course Code Course Name				
2 CHEMISTRY OF ADVANCED	L	P	U	1
The state of the s	4	0	4	
A ELECTIVE II (COPE)	0	0	10	ĺ
ELECTIVE III (OPEN)	4	0	4	
	4	0	4	
TOTAL			22	

SEMESTERWISE CREDIT DISTRIBUTION

SI. No.	210110	DOLLON
1	Semester	
2	SEMESTER I	Unit
2	SEMESTER II	25
3	SUMMER	20
5	SEMESTER III	10
3	SEMESTER IV	24
	GRAND TOTAL	22
	ORAND TOTAL	101

OFFERED COURSE TYPE

		Total No.	U
Sl. No.	Course Type	17	74
1	COUMPULSORY CORE COURSE	2	8
2	ELECTIVE CORE COURSE	1	4
3	OPEN ELECTIVE COURSE	$\frac{1}{2}$	- 5
4	COMPUTER CORE COURSE	2	10
5	SUMMER INTERNSHIP PROGRAM	1	101
	GRAND TOTAL	23	101

LIST OF ELECTIVES

		SEMESTER III							
SI. No.	Course Code	Course Name	L	P	U				
1	CHE651T	ORGANOMETALLIC CHEMISTRY	4	0	4				
2	CHE652T	ART IN ORGANIC SYNTHESIS	4	0	4				
3 CHE653T		ADVANCED SPECTROSCOPY	4	0	4				
4 CHE654T		QUANTUM MECHANICS	4	0	4				
5 CHE655T		ANALYTICAL AND COMPUTATIONAL		0	4				
		CHEMISTRY							
er er i er er er er er er er er er er er er er	SEMESTER IV								
l. No.	Course Code	Course Name	L	P	U				
6	CHE661T	CHEMISTRY IN MEDICINE	4	0	4				
7	CHE662T	CHIRAL SYNTHESIS, DRUGS AND DYES	4	0	4				
8		COORDINATION CHEMISTRY:	4	0	4				
		STRUCTURE, BONDING, SPECTRA,		0	7				
	1.	MAGNETIC PROPERTIES AND REACTION							
		MECHANISM							
9	CHE664T	STATISTICAL MECHANICS							

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Soft

CATEGORY OF COURSES

COMPULSORY CORE COURSE

Sl. No.	C C1-	Course Name	L	P	U
31. 140.	Course Code	INORGANIC CHEMISTRY I	4	0	4
1	CHE511T		4	0	4
2	CHE512T	ORGANIC CHEMISTRY I	4	0	4
3	CHE513T	PHYSICAL CHEMISTRY I	4	0	4
4	CHE414T	GENERAL CHEMISTRY	<u> </u>		
5	CHE515P	INORGANIC CHEMISTRY PRACTICAL	4	0	4
6	CHE521T	ORGANIC CHEMISTRY II	4	0	4
7	CHE522T	INORGANIC CHEMISTRY II	4	0	4
8	CHE523T	PHYSICAL CHEMISTRY II	4	0	4
9	CHE524T	QUANTUM CHEMISTRY AND	4	0	4
		MOLECULAR SPECTROSCOPY			
10	CHE525P	ORGANIC CHEMISTRY PRACTICAL	4	0	4
11	CHE611T	APPLICATION OF SPECTROSCOPY	4	0	4
12	CHE612T	INORGANIC CHEMISTRY III	4	0	4
13	CHE613T	ORGANIC CHEMISTRY III	4	0	4
14	CHE614T	PHYSICAL CHEMISTRY III	4	0	4
15	CHE615P	PHYSICAL CHEMISTRY PRACTICAL	4	0	4
16	CHE621T	CHEMISTRY OF ADVANCED MATERIAL	4	0	4
17	CHE629	MASTER'S DISSERTATION	0	0	10

ELECTIVE CORE COURSES

Sl. No.	Course Code	Course Name	T -	1 -	1 ==
1	CHE651T	ORGANOMETALLIC CHEMISTRY	L	P	U
2	CHE652T	ART IN ORGANIC SYNTHESIS	4	0	4
3	CHE653T	ADVANCED CRECTED OF COLOR	4	0	4
4	CHE654T	ADVANCED SPECTROSCOPY	4	0	4
5	CHE655T	QUANTUM MECHANICS	4	0	4
	CILLOSSI	ANALYTICAL AND COMPUTATIONAL CHEMISTRY	4	0	4
6	CHE662T				ĺ
7	CHE663T	CHIRAL SYNTHESIS, DRUGS AND DYES COORDINATION CHEMISTRY:	4	0	4
		STRUCTURE, BONDING, SPECTRA, MAGNETIC PROPERTIES AND REACTION MECHANISM	4	0	4
7	CHE516	Advance curt die G			
8		Advance synthetic Organic Chemistry STATISTICAL MECHANICS	4	0	4
			4	0	1

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OEPN ELECTIVE COURSE

Sl. No.	Course Code	Course Name	L	P	U
1	CHE661T	CHEMISTRY IN MEDICINE	4	0	4

COMPUTER CORE COURSE

Sl. No.	Course Code	Course Name	L	P	U
1	MA521T	C-PROGRAMMING	0	3	2
2	MA521P	C-PROGRAMMING PRACTICAL	3	0	3

SUMMER INTERNSHIP PROGRAM

Course Code	C 37		,	
3.50		L	P	U
WISCIPIUI	SUMMER INTERNSHIP PROGRAM	0	0	10
	MSCIP101	Course Ivame	Course Ivame	Course value



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/FST/Approval Note/2022-23/D-889

Date: 13/07/2023

APPROVAL NOTE

The Department of Chemistry, ICFAI Science School, has prepared the 4-year B. Sc. Programme structure under the National Education Policy-2020 (NEP2020) which will be offered in the upcoming academic year 2023-24 with Multiple-Entry-Multiple-Exit scheme (MEME). This will enable the students to enter and exit at multiple levels of their choice. The Department of Chemistry hereby presents the Proposed Programme Structure along with MEME Scheme, offered course list, and available course handouts (Annexure attached).

We recommend and request you to give approval for the above.

Soummetro Wate Boodygodhay

Prepared By: Dr. Soumendra Nath Bandyopadhyay Assistant Professor, Department of Chemistry, ISS, FST The ICFAI University Tripura

> Prof. Dr. Priyangshu Rana Borthakur Dean, FST

> > The ICFAI University Tripura

Prof. Dr. Swarnali Nath Choudhury HOD, Department of Chemistry, ISS, FST The ICFAI University Tripura

Prof. Dr. Subhasiah Chatterjee Dean, Academics affairs The ICFAI University Tripura

Prof. Dr. A. Ranganath Registrar,

The ICFAI University Tripura

Prof. Dr. Biplab Halder

Vice Chancellor, The ICFAI University Tripura

FAI University Tripura Kamalghat, Tripura (West).

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DEPARTMENT OF CHEMISTRY

ICFAI SCIENCE SCHOOL
FACULTY OF SCIENCE AND TECHNOLOGY

ICFAI UNIVERSITY TRIPURA

(2023-24)

SCHEME

de

SYLLABI

under

NATIONAL EDUCATION POLICY (NEP 2020)

B. Sc. Chemistry

(UG 4-YEAR SCHEME & SYLLABI)

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Kamalghat, Tripura (West).

18/7/23

Sport 23

Minimum credit requirement to award degree under each category

		3 Yea	rs UG		4 Years UG	
Sl no.	Broad Category of Course	Minimum Credit Requiremen t	Credit Offered	Minimum Credit Requirement	B. Sc. (Honours) (OPTION 6)	B. Sc. (Honours with Research) (OPTION 7)
1.	Discipline Specific Core/Discipli ne Specific Elective Courses	60	40+28 = 68	80	48+52=100	48+48=96
2.	Minor / GE	24	28	32	36	28
3.	Interdisciplin ary Courses	09	09	09	09	09
4.	Ability Enhancement Courses (Language)	- 08	08	08	08	08
5.	Skill Enhancement Courses	09	09	09	09	09
6.	Common Value added courses	06-08	08	06-08	08	08
7.	Internship	2-4	4	2-4	4	04
8.	Research Project and Dissertation	-	-,	12	-	12
9.	Research Methodology	-	-	-	4	4
10.	Total Credits	120	134	160	178	178

DEPARTMENT OF CHEMISTRY

4-YEAR PROGRAMME STRUCTURE

B. Sc. CHEMISTRY

DSC: DEPARTMENT SPECIFIC CORE DSE: DEPARTMENT SPECIFIC ELECTIVE GE: GENERAL ELECTIVE IDC: INTERDISCIPLINARY COURSE

AEC: ABILITY ENHANCEMENT COURSE SEC: SKILL ENHANCEMENT COURSE

VAC: VALUE ADDED COURSE

			SEMESTER 1							SEMESTER II				
	SL	COUR SE CODE	COURSE NAME	L	Т	P	υ	SL	COUR SE CODE	COURSE NAME	L	Т	P	U
**	1		INTRODUCTION TO ORGANIC CHEMISTRY I	3	0	2	4	1		INTRODUCTION TO INORGANIC CHEMISTRY I	3	0	2	4
YEAR 1	2		INTRODUCTION TO PHYSICAL CHEMISTRY I	3	0	2	4	2	,	INTRODUCTION TO PHYSICAL CHEMISTRY II	3	0	2	4
1	3		GE 1				4	3		GE 2				4
	4		IDC 1				3	4		AEC 1				3
	5		SEC 1				3	5		SEC 2				3
	6		VAC 1				4	6		VAC 2				4
			TOTAL CREDIT		2	22			1	TOTAL CREDIT		2	22	
UMMER	SUMMER INTERNSHIP PROGRAMME I						2 or 4							
	T	SEMESTER III								SEMESTER IV			·	
	SL	COUR SE CODE	COURSE NAME	L	Т	P	U	SL	COUR SE CODE	COURSE NAME	L	Т	P	
	1		INTRODUCTION TO INORGANIC CHEMISTRY II	3	0	2	4	1		PHASE EQUILIBRIA AND CHEMICAL CELLS	3	0	2	
YEAR 2	2		DSE 1				4	2		DSE 2				1
	3		GE 3				4	3		DSE 3	T			1
	4		IDC 2				3	4		GE 4	T			1
	5		AEC 2	_			3	5		IDC 3	T	T	T	†
	6		SEC 3	_			3	6		AEC 3	T	T	T	†
	Γ		TOTAL	\perp		21				TOTAL	T		21	
	R 1		CID (***			PROGRA		2/4			

Kamalghai, Inp

			SEMESTER V			-				SEMESTER VI		- November 1		
	sι	COUR SE CODE	COURSE NAME	t,	T	r	U	SL	COUR SE CODE	COURSE NAME	L	Т	Р	U
	1		INTRODUCTION TO COORDINATION CHEMISTRY	d	0	0	4	1		INTRODUCTION TO ORGANOMETALLIC CHEMISTRY	4	0	0	4
TEAR 3	2		ORGANIC SPECTROSCOPY	4	0	0	4	2		CHEMISTRY OF BIOMOLECULES	4	0	O	4
	3		DSE 4				4	3	,	DSE 6				4
	4		DSE 5				4	4		DSE 7				4
	5		GE 5				4	5		GE 6				4
	6					Γ		6		GE 7				4
			TOTAL	Γ	2	20				TOTAL		2	4	
		SEMESTER VII						Г		SEMESTER VIII				
	SL	COUR SE CODE	COURSE NAME	L	Т	P	U	SL	COUR SE CODE	COURSE NAME	L	Т	P	U
	i		ADVANCED INORGANIC CHEMISTRY	3	0	2	4	1		ADVANCED MOLECULAR SPECTROSCOPY	3	0	2	1
YEAR	2		RESEARCH METHODOLOGY	4	0	0	4	2		DSE 12				1
4	3		DSE 8				4	3		GE 9 OR DSE 13	T			4
	4		DSE 9				4	4		PROJECT II OR (DSE 14 AND DSE 15)				8
	5		GE 8 OR DSE II				4	5						
	6		PROJECT I OR DSE 10				4	6					1	1
			TOTAL			24	•			TOTAL	T		20	-

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18/7/23

8/18/07/23

SEMESTER-WISE CREDIT DISTRIBUTION

PART	CREDIT
SEMESTER I	22
SEMESTER II	22
SUMMER INTERNSHIP PROGRAMME I	2 OR 4
SEMESTER III	21
SEMESTER IV	21
SUMMER INTERNSHIP PROGRAMME II (OPTIONAL WITH SIP I)	2
SEMESTER V	20
SEMESTER VI	24
SEMESTER VII	24
SEMESTER VIII	20
TOTAL	178

MULTIPLE ENTRY MULTIPLE EXIT SCHEME MEME SCHEME

,	ENTRY	,		EXIT			
YEAR	DEGREE	CRITERIA	YEAR	(OPTION) DEGREE	CRITEI	RIA	
INTO 1 ST	12 TH PASS	SUBJECT: CHEMISTRY	AFTER	(OPTION 1)	48 CRED		
YEAR		IN 12TH	I ST YEAR	UG CERTIFICATE	4 DSC = 16 2 GE = 8 1 SIP = 4	1 IDC = 3 1 AEC = 3 2 SEC = 6 2 VAC = 8	
ОТИI ^{ди} 2	1-YEAR UG	SUBJECT: CHEMISTRY	AFTER	(OPTION 2)	90 CRED	orts	
YEAR	CERTIFIC ATE	IN CERTIFICAT E	2 ND YEAR	UG DIPLOMA	6 DSC = 24 3 DSE = 12	3 IDC = 9 3 AEC = 8 3 SEC = 9	
			,	4 GE = 16 2 SIP = 4	2 VAC = 8		
INTO 3 RD	DIPLOMA CHEMISTRY		(OPTION 3)	134 CREI	DITS		
YEAR		IN DIPLOMA		B. Sc. WITH MAJOR IN CHEMISTRY	10 DSC = 40 7 DSE = 28	3 IDC = 9 3 AEC = 8 3 SEC = 9	
	AFTER 3 RD YEAF	AFTER 3 RD YEAR	*50% Chemistry Different GE subjects	7 GE = 28 1 SIP = 4	2 VAC = 8		
				(OPTION 4)	134 CREI	DITS	
		ş		B. Sc. WITH MAJOR IN CHEMISTRY AND MINOR IN ANOTHER SUBJECT	10 DSC = 40 7 DSE = 28	3 IDC = 9 3 AEC = 8 3 SEC = 9	
				*50% Chemistry Same subject minor GE	7 GE = 28 1 SIP = 4	2 VAC = 8	
INTO	B. Sc.	SUBJECT: CHEMISTRY		(OPTION 5)	178 CREI	DITS	
YEAR		AS MAJOR		B. Sc. WITH CHEMISTRY HONOURS	12 DSC = 48 15 DSE ≈ 60	3 IDC = 9 3 AEC = 8	
		,		*108 Credit Chemistry Different/ Same subject minor GE	Research Methodology = 4	3 SEC = 9 2 VAC = 8	
	4			. up to 3 rd year	7 GE = 28 1 SIP = 4		
				(OPTION 6)	178 CRE	DITS	
			AFTER 4 ^{TII} YEAR	B. Sc. WITH CHEMISTRY HONOURS AND MINOR (IN ANOTHER SUBJECT)	12 DSC = 48 13 DSE = 52	3 IDC = 9 3 AEC = 8	
				*100 Credit Chemistry Same subject minor GE up to 4 th	Research Methodology = 4	3 SEC = 9 2 VAC = 8	
				year	9 GE = 36 1 SIP = 4		
				(OPTION 7) B. Sc. CHEMISTRY HONOURS	178 CRE	DITS	

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	*108 Credit Chemistry **75% CGPA required up to 3rd year to take Research Projects (4+8 = 12 Credits) in 4th year ***Different/ Same subject minor GE up to 3rd year	12 DSC = 48 12 DSE = 48 Research = 12 Research Methodology = 4 7 GE = 28 1 SIP = 4	3 IDC = 9 3 AEC = 8 3 SEC = 9 2 VAC = 8
	(OPTION 8)	178 CREI	DITS
	B. Sc. CHEMISTRY HONOURS WITH RESEARCH AND MINOR (IN ANOTHER SUBJECT)	12 DSC = 48 10 DSE = 40 Research = 12	3 IDC = 9 3 AEC = 8 3 SEC = 9 2 VAC = 8
	* 100 Credit Chemistry *75% CGPA required up to 3rd year to take Research Projects (4+8 = 12 Credits) in 4th year	Research Methodology = 4 9 GE = 36	
	***Same subject minor GE up to	1 SIP = 4	

COURSES OFFERED BY THE DEPARTMENT OF CHEMISTRY

			AND CONTRACTOR OF THE PROPERTY OF THE PARTY	IPLINE SPECIFIC CORE COURSES (DSC)				
St.	SEM	CATEGORY	CODE	NAME	L	T	i,	IJ
1	1	DSC 1		INTRODUCTION TO ORGANIC CHEMISTRY I	3	0	2	4
2	1	DSC 2		INTRODUCTION TO PHYSICAL CHEMISTRY I	3	0	2	4
3	n	D8C 3		INTRODUCTION TO INORGANIC CHEMISTRY I	3	0	2	4
4	11	DSC 4		INTRODUCTION TO PHYSICAL CHEMISTRY II	3	0	2	4
5	m	DSC 5		INTRODUCTION TO INORGANIC CHEMISTRY II	3	0	2	4
6	IV.	DSC 6		PHASE EQUILIBRIA AND CHEMICAL CELLS	3	0	2	4
7	V	DSC 7		INTRODUCTION TO COORDINATION CHEMISTRY	4	0	0	4
8	V	DSC 8		ORGANIC SPECTROSCOPY	4	0	0	4
ò	VI	DSC 9		INTRODUCTION TO ORGANOMETALLIC CHEMISTRY	4	0	0	4
10	vı	DSC 10		CHEMISTRY OF BIOMOLECULES	4	0	0	4
11	VII	DSC 11		ADVANCED INORGANIC CHEMISTRY	3	0	2	4
12	viii	DSC 12		ADVANCED MOLECULAR SPECTROSCOPY	3	0	2	4
13		SIP I		SUMMER INTERNSHIP PROJECT I				4/2
14		SIP 2		SUMMER INTERNSHIP PROJECT II				2
15	VII	Project		RESEARCH PROJECT I				4
16	VIII	Project		RESEARCH PROJECT II				8

			R	ESEARCH METHODOLOGY COURSE				
SL	SEM	CATEGORY	CODE	NAME	L	Т	P	U
I	VII			RESEARCH METHODOLOGY	4	0	0	4

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nemeral.	TOTAL MARKET	DNR3		ANALYTICAL CHEMISTRY	3	1)	2	6
1	V	DSI/4		INTRODUCTION TO CHEMICAL KINETICS AND CONDUCTANCE	3	4	2	٤
5	V	DSI(5	A STATE OF THE PARTY OF THE PAR	QUANTUM CHEMISTRY	6	d ₂	7	<u></u>
6	VI	DSB 6	And the second s	COMPUTATIONAL CHEMISTRY	3	1	2	4
7	VI	DSE 7		ADVANCED PHYSICAL CHEMISTRY	1 2	1	2	1
8	VII	DSE 8	The second secon	ADVANCED ORGANIC CHEMISTRY	1	83	1	-
9	VII	DSE 9		POLYMER CHEMISTRY	1	1 10	-	-
10	VII	DSE 10		FUEL CHEMISTRY AND BATTERIES	1-	4	5	
11	VII	DSE 11		GREEN CHEMISTRY	1 4	10	-	<u> </u>
12	VIII	DSE 12		ANALYTICAL CLINICAL BIOCHEMISTRY	1 4	6	5	<u> </u>
13	VIII	DSE 13		INSTRUMENTAL METHODS OF CHEMICAL ANALYSIS	1_	dis.	i Ta	
14	VIII	DSE 14		ADVANCED BIOINORGANIC CHEMISTRY		6	6	· .
15	VIII	DSE 15		INDUSTRIAL CHEMICALS AND ENVIRONMENT	1 4	1 5		13
16		DSE		SUPRAMOLECULAR CHEMISTRY	- L			-
17		DSE		CHEMICAL TECHNOLOGY AND SOCIETY	-	6	5	* *
18		DSE		LASER FUNDAMENTALS AND APPLICATIONS		5	6	-
19		DSE		CHARACTERISATION TECHNIQUES IN CHEMICAL RESEARCH	1	10/3	5	-

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COURSES OFFERED BY THE DEPARTMENT OF CHEMISTRY

	* ()		CH	EMISTRY: GENERAL ELECTIVES (GE)				
SL	SEM	CATEGORY	CODE	NAME	L	Т	P	U
1	I	GE 1		INTRODUCTION TO GENERAL CHEMISTRY I	4	0	0	4
2	II	GE 2		INTRODUCTION TO GENERAL CHEMISTRY II	4	0	0	4
3	111	GE 3		INTRODUCTION TO GENERAL CHEMISTRY III	4	0	0	4
4	IV	GE 4		INTRODUCTION TO GENERAL CHEMISTRY IV	4	0	Û	4
5	V	GE 5		GENERAL CHEMISTRY PRACTICAL	0	0	6	4
6	VI	GE 6		INDUSTRIAL CHEMISTRY	4	0	0	4
7	VI	GE 7		COSMETIC CHEMISTRY	4	0	0	4
8	VII	GE 8		PESTICIDE CHEMISTRY	4	0	0	4
9	VIII	GE 9		PHARMACEUTICAL CHEMISTRY	4	0	0	4

COURSES OFFERED BY THE DEPARTMENT OF CHEMISTRY

				HEMISTRY: GENERAL ELECTIVES (GE)				
SL	SEM		CODE	NAME	L	Т	P	U
ļ	I	GE 1		GENERAL BIOCHEMISTRY I	4	0	0	4
2	11	GE 2		GENERAL BIOCHEMISTRY II	4	0	0	4
3	Ш	GE 3		GENERAL BIOCHEMISTRY III	4	0	0	4
4	ΙV	GE 4		GENERAL BIOCHEMISTRY IV	4	0	0	4
5	V	GE 5		GENERAL BIOCHEMISTRY V	4	0	0	4
6	VI	GE 6		GENERAL BIOCHEMISTRY VI	4	0	0	4
7	VI	GE 7		GENERAL BIOCHEMISTRY VII	0	0	6	4

COURSES OFFERED BY

SL SEM CATEGORY CORN	ELECTIVE COURSES (GE)				
1 I-VI GIB NCC	NAME	L	r	P	U

SL Herman	O EM	CATEGORY	CODE	ICS; GENERAL ELECTIVE (GE) COURSES			,	
erminosatoin	1	OE I	The second second second second second	NAME	ı.	T	ľ	L
2	11	(1)(')	AND THE PROPERTY OF THE PROPER	MECHANICS	3	0	2	1
, I	111	GILA	アニアのおけるというという おかれ ちゃま ころうに ままかなく	INTRODUCTION TO HEAT AND THERMODYNAMICS	3	0	2	1
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A A	V	INDESTRUCTION AND ADMINISTRATION OF THE PARTY OF THE PART	and a small of and in the same of the same	INTRODUCTION TO MODERN PHYSICS	-	0	()	-
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ricianis N	VII	(1)1.7		BASICS OF THEORETICAL PHYSICS	m przemenia J	- ALEXENSOP	()	1
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1	VI	11117	al de la companya da de la companya da persona da de la companya da de la companya da de la companya da de la c	INTRODUCTION TO UNIX & SHIRL SCRIPTING	1	1)	in the same of the	atmat A
Ħ	VII	()): 11	2.00	HANDS ON DATA SCHENCE I	7333334 <u>4</u>	11	in in the second	
ij	VIII	(4): 0	and the second s	HANDS ON DATA SCHNOTCH		4		20,000

			Ma'	DIEMATICSI GONERAL BLOCTIVES (GE)			
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h	VI	(il) ii		MONTHHEE THEST THERE		(1)	1
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11	VIII	fileu		THIMBHU AL ABATYAJA		<i>(i)</i>	1

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			COURSES	OFFERED BY THE DEPARTMENT OF CHEMISTRY				
			I	NTERDISCIPLINARY COURSES (IDC)				
SL	SEM	CATEGORY	CODE				Γ	
1	1	IDC 1		NAME	L	T	P	D
2	III	IDC 1		CHEMISTRY IN DAILY LIFE	3	0	0	3
				FUNDAMENTALS OF NANOSCIENCE	3	0	0	3
3	III	IDC 2		CHEMISTRY FOR ENTREPRENEURS	3	0	0	3
4	IV	IDC 3			-	-	_	7
5	IV	IDC 3		PETROCHEMICAL SCIENCE	3	0	U	3
	.,	1003		BASIC CHEMISTRY	3	0	0	3

COURSES OFFERED BY OTHER DEPARTMENT	NIS	
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			II	NTERDISCIPLINARY COURSES (IDC)				
SL	SEM	CATEGORY	CODE	NAME	L	T	P	U
1	I	IDC I		HISTORY OF PHYSICS	3	0	0	3
2	I	IDC 1		MATHEMATICS IN DAILY LIFE	3	0	0	3
3	1	IDC 1		POSITIVE PSYCHOLOGY	3	0	0	3
4	III	IDC 2		PHYSICS AROUND US	3	0	0	3
5	III	IDC 2		VEDIC MATHEMATICS	3	0	0	3
6	III	IDC 2		EDUCATIONAL PSYCHOLOGY	3	0	0	3
7	IV	IDC 3		PRINCIPLES OF MANAGEMENT	3	0	0	3
8	IV	IDC 3		ELEMENTARY ASTROPHYSICS	3	0	0	3
9	IV	IDC 3		APPLICATION OF MATHEMATICS	3	0	0	3

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COURSES OFFERED BY OTHER DEPARTMENTS

	CHURCHEARIMENTA	and remaining the Nation			races and
ALTHRE	ENHANCEMENT COURSES (AEC)				
The second secon	NAME	77	T	P	IJ
	WISH LANGUAGE SEILLS I	a e - Comercionale	17	1)	3
	BUSHI ANGE AGE SKRISH	3	()	1)	1
William to the second s	DERN INDIAN LANGUAGE L(SWAYAM/MOOC)	2	n	0	2

COURSES OFFERED BY CHEMISTRY DEPARTMENT

	81	KILL ENHANCEMENT COURSES (SEC)				
S SM Creen	CODE	NAME	[I.	T	Р	U
N SRC		FOOD AND NUTRITION	2	0	2	3

COURSES OFFERED BY OTHER DEPARTMENTS

	SKILL ENHANCEMENT COURSES (SEC)											
S.	SW	CATELLINA	CODE	NAME	L	Т	P	U				
		SEC :		SOFT SKILLS	3	0	0	3				
*	.	SECI		REASONING AND APTITUDE	3	0	0	3				

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COURSES OFFERED BY THE DEPARTMENT OF CHEMISTRY

				VALUE	004500000	A100.74.7		1000
SL	SEM	CATEGORY	CODE	VALUE ADDED COURSES (VAC)				
1	1/11	VAC		NAME	L	T	P	U
				ENVIRONMENTAL STUDIES	4	0	0	4

COURSES OFFERED BY OTHER DEPAR

				VALUE ADDED COURSES (VAC)			
SL	SEM	CATEGORY	THE RESERVE OF THE PROPERTY OF THE PARTY OF	NAME	Тт	P	U
1	1/11	VAC		YOGA	 +	-	-

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Minimum credit requirement to award degree under each category

		3 Year	s UG		4 Years UG	
	Broad Category of	Minimum Credit		Minimum Credit	Credi	t Offered
SI no.	Course	Requirement	Credit Offered	Requirement	B. Sc. (Honours) (OPTION 6)	B. Sc. (Honours with Research) (OPTION 7)
1.	Discipline Specific Core/Discipline Specific Elective Courses	60	40+28 = 68	80	48+52=100	48+48=96
2.	Minor / GE	24	28	32	36	28
3.	Interdisciplinary Courses	09	09	09	09	09
4.	Ability Enhancement Courses (Language)	08	08	08	08	08
5.	Skill Enhancement Courses	09	09	09	09	09
6.	Common Value added courses	06-08	08	06-08	08	08
7.	Internship	2-4	4	2-4	4	04
8.	Research Project and Dissertation	•	-	12	-	12
9.	Research Methodology	_	-	-	4	4
10.	Total Credits	120	134	160	178	178

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Tentative program structure for 4 Year B. Sc. Chemistry

					1	SKILL		
YEAR	SEMEST ER	DISCIPLINE SPECIFIC COURSES DSC, DSE	GENERAL ELECTIVE (MINOR) GE	INTERDISCIPLINARY COURSES IDC	ABILITY ENHANCEMEN T COURSES (LANGUAGE) AEC		VALUE ADDED	TOTA CREDIT
1 st Year	I	INTRODUCTION TO ORGANIC CHEMISTRY I (4) INTRODUCTION TO PHYSICAL CHEMISTRY I (4)	ALGEBRA (4) or MECHANICS (4) or INTRODUCTION TO COMPUTER (4) or GENERAL BIOCHEMISTRY I (4) INTRODUCTION TO HEAT AND	for ISS: POSITIVE PSYCHOLOGY (3) for non-science background students: CHEMISTRY IN DAILY LIFE (3) or HISTORY OF PHYSICS (3) or MATHEMATICS IN DAILY LIFE (3)	-	SOFT SKILLS (3)	YOGA (4) or ENVIRONME NTAL STUDIES (4)	22
	п	INTRODUCTION TO INORGANIC CHEMISTRY I (4) INTRODUCTION TO PHYSICAL CHEMISTRY II (4)	THERMODYNAMICS (4) or DIFFERENTIAL CALCULUS (4) or INTRODUCTION TO C PROGRAMMING (4) or GENERAL BIOCHEMISTRY II (4)	- -	ENGLISH LANGUAGE SKILLS I (3)	FOOD AND NUTRITION (3)	ENVIRONME NTAL STUDIES 4) or YOGA (4)	22
1st Ye	ar	16	08	03	03	06	08	44
			SUMMER INTI	ERNSHIP I (2/4)				,

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		salles =		YEAR 2				
YEAR	SEMEST ER	DISCIPLINE SPECIFIC COURSES DSC, DSE	GENERAL ELECTIVE (MINOR) GE	INTERDISCIPLINARY COURSES IDC	ABILITY ENHANCEME NT COURSES (LANGUAGE) AEC	SKILL ENHANCEMEN T COURSES/ INTERNSHIP/ DISSERTATION SEC	COMMON VALUE ADDED COURSES VAC	TOTAL CREDITS
				for ISS:				
		n imp obvigation	BASICS OF	EDUCATIONAL PSYCHOLOGY (3)				
		INTRODUCTION TO INORGANIC	ELECTROMAGNETISM (4) or	for non-science background students:		REASONING AND APTITUDE (3)	-	1
2 nd Year	ш	CHEMISTRY II (4)	VECTOR CALCULUS (4) or	CHEMISTRY FOR ENTREPRENEURS (3) or FUNDAMENTALS OF NANOSCIENCE (3) or VEDIC MATHEMATICS	ENGLISH LANGUAGE SKILLS II (3)			21
Z Year				or PHYSICS AROUND US (3)			1	
	IV	PHASE EQUILIBRIA AND CHEMICAL CELLS (4) HETEROCYCLIC CHEMISTRY (DSE2) (4) ANALYTICAL CHEMISTRY (DSE3) (4)	INTRODUCTION TO MODERN PHYSICS (4) or INTEGRAL CALCULUS (4) or DATA SCIENCE FOUNDATION (4) or GENERAL BIOCHEMISTRY IV (4)	for ISS: PRINCIPLES OF MANAGEMENT (3) for non-science background students: PETROCHEMICAL SCIENCE (3) or BASIC CHEMISTRY (3) or ELEMENTARY ASTROPHYSICS (3) or APPLICATION OF MATHEMATICS (3)	MODERN INDIAN LANGUAGE I (SWAYAM/O NLINE) (2)	-	-	21
2 nd Ye	ar	20	08	06	05	03	00	42
Up to 2		36	16	09	08	09	08	86+4=90

SUMMER INTERNSHIP II (2)
EXIT OPTION 2: UG Diploma after securing 86 credits in addition to 4 credit in SIP offered during 1st year or 2nd year summer terms: TOTAL 90 CREDITS

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		700	YEAR 3					
YEAR	SEMEST ER	DISCIPLINE SPECIFIC COURSES DSC, DSE	GENERAL ELECTIVE (MINOR) GE	INTERDISCIP LINARY COURSES IDC	ABILITY ENHANCE MENT COURSES (LANGUAG E) AEC	SKILI. ENHANCE MENT COURSES/ INTERNSH IP/ DISSERTAT ION SEC	COMMON VALU ADDED COURSE S VAC	E TOTAL CREDITS
	v	INTRODUCTION TO COORDINATION CHEMISTRY (4) ORGANIC SPECTROSCOPY (4) INTRODUCTION TO CHEMICAL KINETICS AND CONDUCTANCE (DSE4) (4) QUANTUM CHEMISTRY (DSE5) (4)	LINEAR PROGRAMMING PROBLEM (4) or ELECTRONICS & SEMICONDUCTOR PHYSICS (4) or APPLICATION OF COMPUTER IN SCIENCE (4) [Lab Based] or GENERAL BIOCHEMISTRY V (4)	-	-	-	-	20
3 rd Year	VI	INTRODUCTION TO ORGANOMETALLIC CHEMISTRY (4) CHEMISTRY OF BIOMOLECULES (4) COMPUTATIONAL CHEMISTRY (DSE6) (4) ADVANCED PHYSICAL CHEMISTRY (DSE7) (4)	PROBABILITY AND STATISTICS (4) DIFFERENTIAL CALCULUS (4) or CONDENSED MATTER PHYSICS (4) BASICS OF THEORETICAL PHYSICS (4) or INTRODUCTION TO ML AND DL (4) INTRODUCTION TO UNIX & SHELL SCRIPTING (4) or GENERAL BIOCHEMISTRY VI (4) GENERAL BIOCHEMISTRY VII (4)	-	-	-	-	24
3rd	Year	32	12	00	00	00	00	44
Up to 3 ^r	d Year	68	28	09	08	09	08	130+4=134

EXIT OPTION 3: B. Sc. in Chemistry Major upon securing 130+4 credits SIP = 134 credits

EXIT OPTION 4: B. Sc. in Chemistry Major & Minor in another discipline upon securing 130+4 credits SIP = 134 credits

			B.Sc. Chemis	try Hons.				
YEAR SEM		DISCIPLINE SPECIFIC COURSES DSC, DSE	GENERAL ELECTIVE (MINOR) GE	INTERDISCIPLINARY COURSES IDC	ABILITY ENHANCEMENT COURSES (LANGUAGE) AEC	SKILL ENHANCEMEN T COURSES/ INTERNSHIP/ DISSERTATION SEC	COMMON VALUE ADDED COURSES VAC	TOTAL CREDIT
v	ZII.	ADVANCED INORGANIC CHEMISTRY (4) RESEARCH METHODOLOGY (4) ADVANCED ORGANIC CHEMISTRY (DSE8) (4) POLYMER CHEMISTRY (DSE9) (4) FUEL CHEMISTRY AND BATTERIES (DSE10) (4) GREEN CHEMISTRY (DSE11) (4)	-	-	-	-	-	24
4 th Year	m	ADVANCED MOLECULAR SPECTROSCOPY (4) ANALYTICAL CLINICAL BIOCHEMISTRY (DSE12) (4) INSTRUMENTAL METHODS OF CHEMICAL ANALYSIS (DSE13) (4) ADVANCED BIOINORGANIC CHEMISTRY (DSE14) (4) INDUSTRIAL CHEMICALS AND ENVIRONMENT (DSE15) (4)	-	-	-	-	-	20
4 th Year		44	00	00	00	00	00	44
Up to 4th Year		68+44 = 112	28	09	08	09	08 1	74+4=178

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YEAR 4

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B.Sc. Chemistry Hons (with A	linna!
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			with Min	nor in a specific same su	bject)			
YEAR	SEMEST ER	DISCIPLINE SPECIFIC COURSES DSC, DSE	GENERAL ELECTIVE (MINOR) GE	INTERDISCIPLINARY COURSES IDC	ABILITY ENHANCEMENT COURSES (LANGUAGE)	SKILL ENHANCEMEN T COURSES/ INTERNSHIP/	COMMON VALUE ADDI COURSES	TO CREI
4 th Year	VII	ADVANCED INORGANIC CHEMISTRY (4) RESEARCH METHODOLOGY (4) ADVANCED ORGANIC CHEMISTRY (DSE8) (4) POLYMER CHEMISTRY (DSE9) (4) FUEL CHEMISTRY AND BATTERIES (DSE10) (4) ADVANCED MOLECULAR	BASICS OF EXPERIMENTAL PHYSICS (4) or ANALYSIS (4) or ADVANCED COMPUTATION I (4)	-	-	DISSERTATION SEC	VAC	24
	VIII	ANALYTICAL CLINICAL BIOCHEMISTRY (DSE12) (4) ADVANCED BIOINORGANIC CHEMISTRY (DSE14) (4) INDUSTRIAL CHEMICALS AND ENVIRONMENT (DSE15) (4)	BASICS OF COMPUTATIONAL PHYSICS (4) or NUMERICAL ANALYSIS (4) or ADVANCED COMPUTATION II (4)	-	-	-	-	20
	Year	36	08	-				
Up to 4	^h Year	68+36 = 104	28+8=36	09	08	•	•	44
		EXIT OPTION 6: B. Sc. Honours	in Chemistry (with Minor in a specifi	ic same subject) up	154.4	09	08 1	74+4=178

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		B.S	YEAF c. Chemistry Hor	R 4 ns. with Research				
YEAR	SEMEST ER	DISCIPLINE SPECIFIC COURSES DSC, DSE	GENERAL ELECTIVE (MINOR) GE	INTERDISCIPLINARY COURSES IDC	ABILITY ENHANCEMENT COURSES (LANGUAGE) AEC	SKILL ENHANCEMEN T COURSES/ INTERNSHIP/ DISSERTATION SEC	COMMON VALUE ADDED COURSES VAC	TOTAI CREDIT
4 th Year	VII	ADVANCED INORGANIC CHEMISTRY (4) RESEARCH METHODOLOGY (4) ADVANCED ORGANIC CHEMISTRY (DSE8) (4) POLYMER CHEMISTRY (DSE9) (4) CHEMISTRY RESEARCH PROJECT I (4) GREEN CHEMISTRY (DSE11) (4)	-	-	-	-	-	24
	VIII	ADVANCED MOLECULAR SPECTROSCOPY (4) ANALYTICAL CLINICAL BIOCHEMISTRY (DSE12) (4) INSTRUMENTAL METHODS OF CHEMICAL ANALYSIS (DSE13) (4) CHEMISTRY RESEARCH PROJECT II (8)	-	-	-	-	-	20
4th 1	'ear	44	00	00	00	00	00	44
Up to 4"	h Year	68+44 = 112 EXIT OPTION 7: B. Sc. Honours in Ch	28	09	08	09	08 1	74+4≈178

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			Sc. Chemistry Hons, with Research	Willor in a specific sam	ie subject)			
YEAR	SEMEST ER	DISCIPLINE SPECIFIC COURSES DSC, DSE	GENERAL ELECTIVE (MINOR) GE	INTERDISCIPLINARY COURSES IDC	ABILITY ENHANCEMENT COURSES (LANGUAGE)	SKILL ENHANCEMEN T COURSES/ INTERNSHIP/ DISSERTATION	COMMON VALUE ADDED COURSES	TOT, CRED
		ADVANCED INORGANIC CHEMISTRY (4)			AEC	SEC	VAC	
4 th Year	VII	RESEARCH METHODOLOGY (4) ADVANCED ORGANIC CHEMISTRY (DSE8) (4) POLYMER CHEMISTRY (DSE9) (4)	BASICS OF EXPERIMENTAL PHYSICS (4) or ANALYSIS (4) or ADVANCED COMPUTATION I (4)	-	-	-	-	24
		CHEMISTRY RESEARCH PROJECT I (4) ADVANCED MOLECULAR						
	VIII	SPECTROSCOPY (4) ANALYTICAL CLINICAL BIOCHEMISTRY (DSE12) (4) CHEMISTRY RESEARCH PROJECT II (8)	BASICS OF COMPUTATIONAL PHYSICS (4) or NUMERICAL ANALYSIS (4) or ADVANCED COMPUTATION II (4)	-	-	-	-	20
4th 3	Year	36	08	-				
Up to 4"	h Year	68+36 = 104	28+8=36	-		-	-	44
	EX	IT OPTION 8: B. Sc. Honours with		09	08	09	08 1	74+4=178

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MULTIPLE ENTRY MULTIPLE EXIT SCHEME MEME SCHEME

				TEME SCHEME		
Vin	ENTRY	7		EXIT		
YEAR	DEGREE	CRITERIA	YEAR	(OPTION) DEGREE	CRITER	IA
INTO IST	12TH PASS	SUBJECT:	AFTER	(OPTION I)	48 CREDI	ITS
YEAR	17.33	CHEMISTRY IN 12TH	IST YEAR	UG CERTIFICATE	4 DSC = 16 2 GE = 8 1 SIP = 4	1 IDC = 3 1 AEC = 3 2 SEC = 6 2 VAC = 8
INTO 2ND	1-YEAR	SUBJECT:	AFTER	(OPTION 2)	90 CRED	ITS
YEAR	UG CERTIFIC ATE	CHEMISTRY IN CERTIFICAT E	2ND YEAR	UG DIPLOMA	6 DSC = 24 3 DSE = 12 4 GE = 16 2 SIP = 4	3 IDC = 9 3 AEC = 8 3 SEC = 9 2 VAC = 8
INTO	UG	SUBJECT:		(OPTION 3)	134 CRED	OITS
3RD YEAR	DIPLOMA	CHEMISTRY IN DIPLOMA		B. Sc. WITH MAJOR IN CHEMISTRY	10 DSC = 40 7 DSE = 28	3 IDC = 9 3 AEC = 8 3 SEC = 9
			AFTER 3RD YEAR	*50% Chemistry Different GE subjects	7 GE = 28 1 SIP = 4	2 VAC = 8
			YEAR	(OPTION 4)	134 CREI	DITS
				B. Sc. WITH MAJOR IN CHEMISTRY AND MINOR IN ANOTHER SUBJECT	10 DSC = 40 7 DSE = 28	3 IDC = 9 3 AEC = 8 3 SEC = 9
				*50% Chemistry Same subject minor GE	7 GE = 28 1 SIP = 4	2 VAC = 8
INTO	B. Sc.	SUBJECT: CHEMISTRY		(OPTION 5)	178 CRE	DITS
4TH YEAR		AS MAJOR		B. Sc. WITH CHEMISTRY HONOURS	12 DSC = 48 15 DSE = 60	3 IDC = 9 3 AEC = 8 3 SEC = 9
		5		*108 Credit Chemistry Different/ Same subject minor GE	Research Methodology = 4	2 VAC = 8
				up to 3 rd year	7 GE = 28 1 SIP = 4	
				(OPTION 6)	178 CRE	DITS
			AFTER 4TH YEAR	B. Sc. WITH CHEMISTRY HONOURS AND MINOR (IN ANOTHER SUBJECT) *100 Credit Chemistry Same subject minor GE up to 4th year	12 DSC ≈ 48 13 DSE = 52 Research Methodology = 4	3 IDC = 9 3 AEC = 8 3 SEC = 9 2 VAC = 8
					9 GE = 36 1 SIP = 4	
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44	(OPTION 7)	178 CRE	DITS
	B. Sc. CHEMISTRY HEWITH RESEAR *108 Credit Chemi **75% CGPA required up to take Research Projects Credits) in 4th ye ***Different/ Same subj GE up to 3rd year	CH	3 IDC = 9 3 AEC = 8 3 SEC = 9 2 VAC = 8
	(OPTION 8)	178 CRE	DITS
	B. Sc. CHEMISTRY HO WITH RESEARCH AN (IN ANOTHER SUB	$\begin{array}{c c} \mathbf{D} \mathbf{MINOR} & 12 \mathbf{DSC} = 48 \\ 10 \mathbf{DSE} = 40 \end{array}$	3 IDC = 9 3 AEC = 8 3 SEC = 9
	* 100 Credit Chem *75% CGPA required up to take Research Projects Credits) in 4th ye ***Same subject minor 4th year	to 3rd year $(4+8=12)$ Methodology = 4	2 VAC = 8

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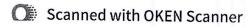
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	N	injor	NKP	2020 STRUCT	TURK	y		
Semester	Discipline Specific Care (4)	Discipling Specific Elective (4)	Minor (4)	Inter- disciplinary Courses (3)	Ability Enhanceme nt Courses (AEC)	Skill Enhanceme of Courses (SEC) (3)	Value Added Courses (VAC) (4)	Total Credi
	DSC 1	A CONTRACTOR OF THE PROPERTY O	GB I	IDC I		SEC 1	VACI	22
1	DSC 2		The state of the s	11007				
and descriptions of the second second second	DSC 3		- CHO			anci 2	VAC 2	22
н	DSC 4		GR 2		AEC 1 (3)	SEC 2	V/10 2	
		Summe	er Internship I (4		exiting with Cer	rtificate		
	DSC 5	DSE I	I	(2) for Others		anga		21
m	127,3	Dae i	GE 3	IDC 2	AEC 2 (3)	SEC 3		Z1
	DSC 6	DSE 2	GE 4	IDC 3	AEC 3 (2)			21
IV		DSE 3	Ol3 1	1003	7.130 3 (2)			
7, - 7								
1.00	T	T		ner Internship I	1 (2)			
	DSC 7	DSE 4	GE 5					20
V	DSC 8	DSE 5						
				,				
	DSC 9	DSE 6	GE 6					24
177	DSC 10	DSE 7	GE7					
VI								
CREDIT CHECK (OPT 3/4)	Major (68), more than 50% of (134)	(134), required	than 20% of I to offer minor gree	9 (meeting requirement)	8 (meeting requirement)	9 (meeting requirement)	8 (meeting requirement)	130+4
	DSC 11	DSE 8	GE 8 OR DSE					24
100		DSE 9						
ΛII	Research Methodology							
	Project O	R DSE 10						
159	DSC 12	DSE 12	GE 9 OR DSE 13					20
AIII		ct OR + DSE 15)						
CREDIT CHECK (OPT 6/8)	Honours (100), more than 50% of (178)	GE (36), more 178, required (o offer minor	9 (meeting requirement)	8 (meeting requirement)	9 (meeting requirement)	8 (meeting requirement)	174+4

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The ICFAI University, Tripura

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This is to inform you that Nine Elective courses are there for the Academic year 2023-24 which has been opted by the students as elective course for theircourse curriculum. All the courses are offered by other departments of our university. So the BOS minutes for this new elective courses will not cover by our Chemistry department.

List of the New Elective Courses for B.Sc. Chemistry 1st year SEM I are:

Course Name	Course Code	Year of introduction
INTRODUCTION TO COMPUTER	CA104	2023
MECHANICS	PHY103	2023
ALGEBRA	MAT101	2023
POSITIVE PSYCHOLOGY	PSY105	2023
SOFT SKILLS	SSU354	2023

List of the New ElectiveCourses for B.Sc. Chemistry 1st year SEM II are:

Course Name	Course Code	Year of introduction
INTRODUCTION TO C PROGRAMMING	CS109	2023
DIFFERENTIAL EQUATIONS	MAT120	2023
ENGLISH LANGUAGE SKILLS I	ENG101	2023
INTRODUCTION TO PERSONAL TAX MANAGEMENT	MGT124	2023

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

Change Chandra, Paul Dr. Ganesh Chandra Paul Assistant Professor & HOD Department of Chemistry ICFAI University Tripura

HEAD
Department of Chemistry
ICFAI Science School
The ICFAI University, Tripura



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

Ref: IUT/FST/PHY/AY23-24

Dated: 21/12/2023

Agenda of the 11th Meeting of Board of Studies, Department of Physics, Faculty of Science and Technology, The ICFAI University Tripura

Introduction:

11th meeting of Board of Studies of Department of Physics, Faculty of Science and Technology, ICFAI University, Tripura was held on 21st December 2023 at 10 A.M. Dr. Priyangshu Rana Borthakur, Dean, Faculty of Science and Technology, ICFAI University Tripura was the chairperson of the meeting.

Following members were present at the meeting:

- 1. Dr. Priyangshu Rana Borthakur, Chairperson
- 2. Dr. Sovan Ghosh, Member Secretary
- 3. Dr. Camelia Das, Member
- 4. Dr. Ganesh Adhikary, Member
- 5. Dr. Tuhin Subhra Mukherjee, Member
- 6. Dr. Asit Kar, External Member

Absentee:

Dr. Jayanta Kumar Sarma

Agenda:

enda:	
Item No.	Particulars
I	Consideration of Action Taken Report for approval of the previously held meeting on 4th August, 2023
	# The action taken report of last BOS meeting held on 4th August, 2023 was discussed after the approval from Academic council on 15th September, 2023.
2	Agenda: Following 10th Board of Studies and 32nd ACM, NEP 2020 is implemented and presently department is NEP structure is introduced since 2023-24 academic year. Requirement of some changes to the previous approval are noticed. They are now placed in front of board.

NO THINDS

Changed titles of courses, split or unification of courses are presented in the Annexure II.

Agenda: Introduction of New Courses for B.Sc Physics and B.Sc Physics (Hons.). #Following courses are introduced as new courses.

THERMAL PHYSICS (Sem-II)

#Thermal Physics I (approved in 10th BoS) course is renamed to reduce the probability of repeating the title. This course provides knowledge of Heat & radiation. Members of the board accepted the proposal.

THERMODYNAMICS (Sem-III)

Thermal Physics II (approved in 10th BoS) is renamed to reflect the content of the course specifically. This course is dedicated to Thermodynamic system, surroundings, corresponding laws and applications. Members accepted the same.

OSCILLATIONS AND WAVE MOTIONS (Sem-III)

Following the suggestion by Prof. Asit Kar, the course is split into theory and laboratory sections. Then for this course there will be in L-T-P-U: 3-1-2-4. Previously approved course was 'Waves and Oscillations'. Due to changes in syllabus and insertion of laboratory component, the course title is changed to 'Oscillations and Wave Motions'.

OPTICS (Sem-IV)

Optics I (approved in 10th BoS) is renamed as Optics. Keeping an eye on JAM, Physical Optics and Geometrical Optics are blended in this course. Members accepted the same.

QUANTUM MECHANICS I (Sem-IV)

#Introducing the basics of quantum mechanics. Members of the board accepted the proposal.

QUANTUM MECHANICS II (Sem-V)

Mainly intermediate portion like three dimensional approach, potential well and identical particles are kept as contents of this course. Members of the board.

SOLID STATE PHYSICS I (Sem- VI)

Crystal defects to be incorporated as per Prof. Asit Kar's sugestion.

SOLID STATE PHYSICS II (Sem-VII)

Semi conductor, Dielectric, Magnetism, Super conductivity and Nanoscale Physics are the contents of this course. Members accepted the same.

Agenda: Introduction to specialization of M.Sc program

Department is going to introduce the specialization in the M.Sc Phi

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Program. Following suggestions of Prof. Asit Kar and considering the possible elective courses could be offered depending on the faculty members' area of expertise it is decided that following specializations canbe offered:

- a) Condensed Matter Physics
- b) Particle Physics
- c) Astrophysics & Cosmology
- d) Particle Physics and Astrophysics

Corresponding distribution of the courses for each specialization are displayed in Amexure-III.

The meeting was concluded with vote of thanks by Member Secretary.

Signature of the members present in the meeting:

Prof. (Dr.) Priyangshu Rana Borthakur

Dr. Sovan Ghosh

Dr. Camelia Das

Dr. Tuhin Subhra Mukherjee

Dr. Ganesh Adhikary Geanish

Dr. Asit Kar

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Courses Approved in 10th BoS	Changes in 11th BoS
MATHEMATICAL PHYSICS I	No Change is there
MECHANICS AND GENERAL PROPERTIES OF MATTER	No Change is there
MATHEMATICAL PHYSICS II	No Change is there
THERMAL PHYSICS I	Title is changed: Thermal Physics I to Thermal Physics
ELECTRICITY AND MAGNETISM	Moved from Semester III to Semester IV, Change in unit structure: 3-1-0-4 to 3-0-2-4
WAVES AND OSCILLATION	Title is changed: Waves and Oscillation to Oscillations and Wave Motions
OPTICS I	Title is changed: Optics I to Optics Unit structure: 3-0-2-4
ELECTRONICS	Title is changed: Electronics to Fundamentals of Electronics, Moved from Semester IV to Semester V Unit structure: 3-0-2-4
ELECTRICAL CIRCUIT ANALYSIS	This course is removed
THERMAL PHYSICS II	Title is changed: Thermal Physics II to Thermodynamics, Moved from semester V to III
QUANTUM MECHANICS I	Moved from semester V to semester IV
MATHEMATICAL PHYSICS III	Instead of this course Mathematical Methods of Physics I is prescribed, Moved from semester V to semester VII
OPTICS II	Title is changed from Optics II to Laser Physics, Moved from semester V to semester VIII
ELECTRODYNAMICS	Title is changed from Electrodynamics to Electrodynamics & Relativity, Moved from semester VI to semester V
ATOMIC AND MOLECULAR PHYSICS	Title is changed from Atomic and Molecular Physics to Basics of Atomic and Nuclear Physic Moved from semester VI to semester V
STATISTICAL MECHANICS	Moved from semester VI to semester VII
COMPUTATIONAL PHYSICS	No Change is there
SOLID STATE PHYSICS I	Moved from semester VII to semester VI; Unit Structure: 3-0-2-4
RESEARCH METHODOLOGY	No Change is there
QUANTUM MECHANICS II	Moved from semester VII to semester VI
ADVANCED CLASSICAL MECHANICS	Instead of this course Classical Mechanics is prescribed
XPERIMENTAL TECHNIQUES OR PROJECT I	Experimental Techniques is moved from semester VII to semester VIII
PHOTONICS OR GE 8	Moved from semester VII to semester VIII
NUCLEAR PHYSICS	Instead of this course Nuclear and Particle Physics is prescribed
SOLID STATE PHYSICS II	Moved from semester VIII to semester VII; Unit structure: 3-0-2-4
QUANTUM MECHANICS III OR GE.9	Instead of this course Advanced Quantum Mechanics is prescribed

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PROJECT II OR (DSE 14 AND DSE 15)	No Change is there
ASTROPHYSICS	Title is changed from Astrophysics to Astrophysics for Beginners
PLASMA PHYSICS	This course is dropped from B.Sc

1910 Contraction Section 21.12.23

Annexure -III

List of Proposed Specializations to be offered by Department of Physics

Serial No.	Title of Specializations	
1	Condensed Matter Physics	
2	Particle Physics	
3	Astrophysics & Cosmology	
4	Particle Physics and Astrophysics	

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Annexure II

Course Structure presented in Board of Studies on 21.12.2023

Semester	Course	Course Code	Course Title	L	Т	Р	U
	Туре		MATHEMATICAL PHYSICS I	3	1 .	0	4
	DSC	PHY112T	MECHANICS AND GENERAL PROPERTIES OF MATTER	3	0	22	4
	DSC	PHY105	MATHEMATICAL PHYSICS II	3	1	0	4
	DSC	PHY123T		3	0	2	4
11	DSC	PHY131	THERMAL PHYSICS THERMODYNAMICS	3	0	2	4
	DSC	PHY211T		3	0	2	4
111	DSC		OSCILLATIONS AND WAVE MOTIONS ELECTRICITY AND MAGNETISM		1	0	4
	DSC	PHY212T	ELECTRICITY AND MAGNETISM	3	0	2	4
	DSC		OPTICS	3	0	0	4
IV	DSC		QUANTUM MECHANICS I	3	1		4
1 V	DSC		ELECTRODYNAMICS & RELATIVITY	3	0	2	4
	DSC		FUNDEMENTALS OF ELECTRONICS	3	0	2	1
	DSC		BASICS OF ATOMIC AND NUCLEAR PHYSICS	3	11	0	4
			QUANTUM MECHANICS II	3	11	0	4
V	DSC		SOLID STATE PHYSICS I (4)	3	11	0	44
	DSC		COMPUTATIONAL PHYSICS (4)	2	0	4	4
	DSE		ASTROPHYSICS FOR BEGINNERS (4)	3	1	0	4
	DSE			3	0	2	4
VI	DSC		ELECTRONICS AND APPLICATIONS (4) STATISTICAL MECHANICS (4)	3	1	0	4
	DSC	PHY612T	RESEARCH METHODOLOGY (4)	3	1	0	4
	DSC				1	0	4
	DSC	PHY405	MATHEMATICAL METHODS OF PHYSICS I (4)	3		0	4
	DSE		SOLID STATE PHYSICS II (4)	3	11		4
	DSC	PHY401	CLASSICAL MECHANICS (4)	4	0	0	4
VII	DSC	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ADVANCED QUANTUM MECHANICS (4)	3	11	0	4

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	DSC	PHY614T	NUCLEAR AND PARTICLE PHYSICS (4)	4	0	0	4
	DSC		EXPERIMENTAL TECHNIQUES (4)	4	0	0	4
	DSE	PHY514	PHOTONICS (4)	4	0	0	4
	DSE		LASER PHYSICS (4)	3	1	0	4
VIII	DSE		ADVANCED COMPUTATIONAL PHYSICS (4)	2	0	4	4

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The ICFAI University, Tripura

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

Date:07/08/2023

Minutes of Meeting and Resolutions

Board of Studies, Department of Mathematics

Introduction:

A meeting of Board of Studies, Department of Mathematics, The ICFAI University, Tripura was held on the 7th August, 2023 at 05:00 P.M. Dr.Priyangshu Rana Borthakur, Dean, Faculty of Science & Technology, The ICFAI University, Tripura chaired the meeting. Following members were present at the meeting:

- 1. Dr. Arnab Ghosh, Assistant Professor & HOD, Department of Mathematics, IUT, Member Secretary, BOS.
- 2. Dr. Prasenjit Bal, Assistant Professor, Department of Mathematics, IUT, Member, BOS.
- 3. Dr. Debjani Rakshit, Assistant Professor, Department of Mathematics, IUT, Member, BOS.
- 4. Prof. Binod Chandra Tripathy, Professor and Head of the Department, Department of Mathematics, Tripura University, External Member, BOS.
- 5. Prof. Shuvam Sen, Professor, Tezpur University, External Member, BOS.

Agenda:

The agenda deliberated were discussed and following resolutions were passed.

Item No.	Particulars
I	Agenda: Consideration of Action Taken Report for approval of the previously held meeting on 13 th January, 2023.
	The action taken report of last BOS meeting held on 13th January, 2023 was discussed after the approval from Academic council and Board of Governors.
	Resolutions:
	The Action Taken Report of the previously held meeting on 13th January, 2023 was approved by all the members. (Annexes to be enclosed).
2	Agenda: To discuss about the proposed B.Sc. (Mathematics) structure according to the NEP, 2020.
	Resolutions: A detailed discussion on the proposed B.Sc. (Mathematics) structure

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	according to the NEP, 2020, has been done in the meeting. Both the external members are overall satisfied with the structure and have suggested few possible modificiations. (Annexes to be enclosed).
3	Agenda: To replace Probability and Statistics as the core course in B.Sc. (Mathematics) structure.
	Resolutions: External member Prof. Binod Chandra Tripathy has suggested removing the Probability and Statistics course as the discipline specific core course and putting it as a discipline specific elective course. It has been decided that the department will discuss this issue further and will take necessary steps. (Annexes to be enclosed).
4	Agenda: To include a course on complex algebra as discipline specific core course.
	Resolutions: External member Prof. Binod Chandra Tripathy has suggested the inclusion of a course on complex algebra as the discipline specific core course. This will benefit the students before studying the course Metric Space and Complex Analysis. It has been decided that the department will take necessary steps according to the suggestion. (Annexes to be enclosed).
5	Agenda: To introduce Probability and Statistics as an Inter Disciplinary Course.
	Resolutions: As Probability and Statistics has significant importance on various other fields, so external member Prof. Binod Chandra Tripathy has suggested to include Probability and Statistics as the Inter Disciplinary Course. The department will take necessary steps according to the suggestion. (Annexes to be enclosed).
6	Agenda: To incorporate CO-PO mapping of each new courses with the syllabus.
	Resolutions: External member Prof. Shuvam Sen has emphasized on the importance of CO-PO mapping corresponding to each course. The detailed CO-PO structure has been prepared corresponding to each courses. (Annexes to be enclosed).
7	Agenda: To check the prerequisite of each courses.
	Resolutions: External member Prof. Shuvam Sen has suggested checking the prerequisite of each course. The department has already looked after the issue and has taken necessary steps. (Annexes to be enclosed).
8	Agenda: To include lattice in the Group Theory syllabus.
	Resolutions: Internal member Dr. Prasenjit Bal has suggested to include lattice in the Group Theory course. It has been decided that the department will discuss this issue further and will take necessary steps. (Annexes to be enclosed).

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

(Name and Signature of all Members)

1. Dr. Prasenjit Bal

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2. Dr. DebjaniRakshit

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3. Prof. Binod Chandra Tripathy

Bripathy

4. Prof. Shuvam Sen

Member Secretary

Chairman

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

DEPARTMENT OF MATHEMATICS

ICFAI SCIENCE SCHOOL
FACULTY OF SCIENCE AND TECHNOLOGY

ICFAI UNIVERSITY TRIPURA (2023-24)

SCHEME

de

SYLLABUS

under

NATIONAL EDUCATION POLICY (NEP 2020)

B. Sc. Mathematics



DEPARTMENT OF MATHEMATICS

4-YEAR PROGRAMME STRUCTURE

B. Sc. (MATHEMATICS)

DSC: DEPARTMENT SPECIFIC CORE DSE: DEPARTMENT SPECIFIC ELECTIVE

GE: GENERAL ELECTIVE IDC: INTERDISCIPLINARY COURSE AEC: ABILITY ENHANCEMENT COURSE SEC: SKILL ENHANCEMENT COURSE

VAC: VALUE ADDED COURSE

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SEMESTER III	21
SEMESTER IV	21
SUMMER INTERNSHIP PROGRAMME II (OPTIONAL WITH SIP I)	
SEMESTER V	2
SEMESTER VI	20
SEMESTER VII	24
SEMESTER VIII	24
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TOTAL	178

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(OPTION 7)	178 CR	EDITS
B. Sc. Mathematics HONOURS WITH RESEARCH *108 Credit Mathematics **75% CGPA required up to 3rd year to take Research Projects (4+8 = 12 Credits) in 4th year ***Different/ Same subject minor GE up to 3rd year	12 DSC = 48 12 DSE = 48 Research = 12 Research Methodology = 4 7 GE = 28 1 SIP = 4	3 IDC = 9 3 AEC = 8 3 SEC = 9 2 VAC = 8
(OPTION 8) B. Sc. Mathematics HONOURS WITH RESEARCH * 100 Credit Mathematics *75% CGPA required up to 3rd year to take Research Projects (4+8 = 12 Credits) in 4th year ***Same subject minor GE up to 4th year	178 CREI 12 DSC = 48 10 DSE = 40 Research = 12 Research Methodology = 4 9 GE = 36	3 IDC = 9 3 AEC = 8 3 SEC = 9 4 VAC = 8

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		C	OURSESC	CIPLINE SPECIFIC CORE COURSES (DSC)					
SL	SEM	CATEGORY	CODE	OFFERED BY THE DEPARTMENT OF MATHEMATICS					
-1	I	DSC 1		NAME	1	L	Т	P	1
2	1	DSC 2		Classical Algebra		3	1	0	4
3	111	DSC 3		Real Analysis	+	3	1	0	4
4	11	DSC 4		Analytic Geometry	+	3	1	0	-
5				Group Theory	+	-	1		4
	III	DSC 5		Ordinary Differential Equation		+		0	4
6	IV .	DSC 6		Linear Algebra	3		1	0	4
7	V	DSC 7		Analysis – II/	3	+	1	0	4
8	V	DSC 8		Mathematical Probability	3		t	0	4
9	VI	DSC 9			3	1		0	4
0	VI	DCC		Metric Space and Complex Analysis	3	0		2	4
		DSC 10		Ring Theory	4	0		1	
I	VII	DSC 11		Numerical Analysis			1	1	4
2 1	VIII	DSC 12		Vector Calculus	3	0	2	:	4
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+	-			SUMMER INTERNSHIP PROJECT I				4	17
-		SIP 2		SUMMER INTERNSHIP PROJECT II		-	-		2
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SL	SEM	CATEGORY	CODE	NAME	ICS				
1	111	Box		Integral Calculus		L	T	P	-
2	Ш	DSE		Algebra of Complex Numbers		3	1	0	4
3	IV	-		Statics and Dynamics of a Particle			-		
		DSE 2/DSE 3		Introduction to Multiset Theory		3	1	0	4
4	IV			Vector Algebra		3	1	0	4
5	V	DSE4/DS		Multivariable Calculus				<u> </u>	4
6	V	E5		Linear Programming Problem		+	1	0	4
7	V			Tensor Calculus	3	-	1	0	4
)	VI			Partial Differential Equations	3	-	1	0	4
0	VI	DSE CONTRACTOR		Programing Language I	3	+	1	0	4
1		6/DSE 7		Programing Language II	3	+	-	2	4
-	VI			Introduction to Number Theory	3	0	-	2	4
+	VII			Laplace Transformation	$\frac{3}{3}$	1	_	0	4
-	VII	DSE 8/DSE		uzzy Set Theory	$\frac{3}{3}$	1		2	4
	9,	DSE 11		ntroduction to Topology	$\frac{1}{3}$	1	-)	4
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+-				asic Operator Theory	3	1	0	-	4
VI	-			iscrete Mathematics	3	1	0		4
VI		DSE -		lathematical Modeling	3	1	0	1	4
VI	12/	DSE13/ E14/DS		tegral Transformation	3	1	0	-	-
VII	-	E15		assical Mechanics	$\frac{3}{3}$	1	0	4	_
VII	_			imerical Methods	3	1	0	4	4
			Int	roduction to Neutrosophic Set Theory	3	1	0	4	-

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

	,	COL	JRSES OF	GENERAL ELECTIVES (GE) FERED BY THE DEPARTMENT OF MATHEMA	The State of the			
SL	SEM	CATEGORY	CODE		TICS			
1	1	GE I		Algebra	L	T	P	
2	11	GE 2			3	-1	0	1
3	III	GE 3		Differential Equations Vector Calculus	3	1	0	\dagger
4	IV	GE 4		Integral Calculus	3	1	0	T
5	V	GE 5			3	1	0	1
5	VI	GE 6		Linear Programming Problem Probability and Statistics	3	1	0	1
7	VI	GE 7			3	1	0	1
	VII	GE 8		Differential Calculus Analysis	3	1	0	1
	VIII	GE 9		Numerical Analysis	3	1	0	4
			COUR	RSES OFFERED BY OTHER DEPARTMENTS	3	1	0	4

SL	SEM	CATEGORY	CODE	HEMISTRY: GENERAL ELECTIVES (GE)				
1	I	GE 1	The state of the s	NAME	L	T	P	T
2	11	GE 2		INTRODUCTION TO GENERAL CHEMISTRY I	4	0	10	Ť.
3	Ш	GE 3		INTRODUCTION TO GENERAL CHEMISTRY II	4	0	0	-
4	IV			INTRODUCTION TO GENERAL CHEMISTRY III		-		-
_		GE 4		INTRODUCTION TO GENERAL CHEMISTRY IV	4	0	0	1 4
5	V	GE 5		GENERAL CHEMISTRY PRACTICAL	4	0	0	4
1	VI	GE 6		INDUSTRIAL CHEMISTRY	0	0	6	4
	VI	GE 7		COSMETIC CHEMISTRY	4	0	0	4
	VII	GE 8			4	0	0	4
T.	VIII	GE 9		PESTICIDE CHEMISTRY	4	0	G	4
		GE 9		PHARMACEUTICAL CHEMISTRY	4	0	0	

SL .	SEM	CATEGORY	CODE	CHEMISTRY: GENERAL ELECTIVES (GI				
1	1	GEI	CODE	NAME		7	F.	Т.
+				GENERAL BIOCHEMISTRY I		1	P	
4	11	GE 2		GENERAL BIOCHEMISTRY II	4	0	()	-
3	111	GE 3		GENERAL BIOCHEMISTRY III	4	0	0	4
-	IV	GE 4			4	0	0	4
	V	GE 5		GENERAL BIOCHEMISTRY IV GENERAL BIOCHEMISTRY V	4	0		-



	T	7					
. 6	VI	GE 6	GENERAL BIOCHEMISTRY VI				
7	VI	GE 7		4	0	0	4
	L		GENERAL BIOCHEMISTRY VII	0	10		
					U	0	4

SL	SEM	CATEGORY	CODE	SICS: GENERAL ELECTIVE (GE) COURSES				
1	I	GE 1		NAME	L	T	P	
2	II	GE 2		MECHANICS	3	10	2	+
3	III	GE 3		INTRODUCTION TO HEAT AND THERMODYNAMICS	3	0	2	+
4	IV			BASICS OF ELECTROMAGNETISM	4	+-	-	-
-		GE 4		INTRODUCTION TO MODERN PHYSICS		0	0	
5	V	GE 5		ELECTRONICS & SEMICONDUCTOR PHYSICS	4	0	0	L.
5	VI	GE 6		CONDENSED MATTER PHYSICS	3	0	2	1
	VI	GE 7			4	0	0	4
	VII	GE 8		BASICS OF THEORETICAL PHYSICS	3	1	0	4
1	VIII	GE 9		BASICS OF EXPERIMENTAL PHYSICS	4	0	0	4
				BASICS OF COMPUTATIONAL PHYSICS	3	0	2	4

	1 11	GE 1	CODE	NAME				
	11	OL I			L	T	Р	T
	11	Om -		INTRODUCTION TO COMPUTER		+-	+-	+
3 1		GE 2		INTRODUCTION TO C PROGRAMMING	2	0	4	1
	111	GE 3		OBJECT ORIENTED PYTHON PROGRAMMING	2	0	4	1
1 1	IV	GE 4		DATA SCIENCE POR	2	0	4	T
1	V	GE 5		DATA SCIENCE FOUNDATION	2	0	4	+
V	71	GE 6		APPLICATION OF COMPUTER IN SCIENCE	1	0	-	+
-	-	OE 0		INTRODUCTION TO ML AND DL	+-	0	6	-
V	(1	GE 7		INTRODUCTION TO UNIX & SHELL SCRIPTING	2	0	4	
VI	11	GE 8		ADVANCED COMPUTATION I	2	0	4	
VII	II	GE 9		ADVANCED COMPUTATION II	2	0	4	-

Registrar,
Registrar,
Tripura (Nest).
Kamalghat, Tripura (Nest).

COURSES OFFERED BY THE DEPARTMENT OF MATHEMATICS

)	NTERDISCIPLINARY COURSES (IDC)				
SL	SEM	CATEGORY	CODE	NAME			·	
2	I	IDC 1		MATHEMATICS IN DAILY LIFE	L	T	P	L
5	III	IDC 2		VEDIC MATHEMATICS	3	0	0	3
9	IV	IDC 3		APPLICATION OF MATHEMATICS	3	0	0	3
				TO STORY OF MATHEMATICS	3	0	()	3

COURSES OFFERED BY OTHER DEPARTMENTS

				INTERDISCIPLINARY COURSES (IDC)				-
SL	SEM	CATEGORY	CODE					
1	I	IDC 1		NAME HISTORY OF PANALON	L	T	P	1
2	1	IDC 1		HISTORY OF PHYSICS	3	0	0	13
3	I	IDC 1		CHEMISTRY IN DAILY LIFE	3	0	0	+3
4	111	IDC 2		POSITIVE PSYCHOLOGY	3	0	0	3
5	111			PHYSICS AROUND US	$\frac{1}{3}$	0		+-
		IDC 1		FUNDAMENTALS OF NANOSCIENCE		-	0	3
6	III	IDC 2		CHEMISTRY FOR ENTREPRENEURS	3	0	0	3
7	III	IDC 2		EDUCATIONAL PSYCHOLOGY	3	0	0	3
3	IV	IDC 3		PRINCIPLES OF MANAGEMENT	3	0	0	3
)	IV	IDC 3		ELEMENTARY ASTROPHYSICS	3	0	0	3
0	IV	IDC 3			3	0	()	3
	IV	IDC 3		PETROCHEMICAL SCIENCE	3	0	0	3
				BASIC CHEMISTRY	3	0	0	3

COURSES OFFERED BY OTHER DEPARTMENTS

			AB	ILITY ENHANCEMENT COURSES (AEC)				
SL	SEM	CATEGORY	CODE					
1	11	AEC 1		NAME	L	Т	P	U
2	111	AEC 2		ENGLISH LANGUAGE SKILLS I	3	0	0	3
3	IV	AEC 3		ENGLISH LANGUAGE SKILLS II	3	0	6	-
		ALCS		MODERN INDIAN LANGUAGE I (SWAYAM/MOOC)		-	U	3

COURSES OFFERED BY DEPARTMENT of MATHEMATICS

			SI	KILL ENHANCEMENT COURSES (SEC)				-
SL_	SEM	CATEGORY	CODE	N. A.				
1	III	SEC 3		NAME REASONING AND APTITUDE	L	T	P	1
				T. T. D. AT TITODE	3	0	0	-

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Kamalghat, Tripura (West)

COURSES OFFERED BY OTHER DEPARTMENTS

			SI	KILL ENHANCEMENT COURSES (SEC)	*#7			
SL	SEM	CATEGORY	CODE	NAME		-1		
1	1	SEC I		SOFT SKILLS	L	T	P	U
2	11	SEC 2			3	0	0	3
				FOOD AND NUTRITION	2	0	2	1

COURSES OFFERED BY OTHER DEPARTMENTS

				VALUE ADDED COURSES (VAC)	. O. Andrews			-
SL	SEM	CATEGORY	CODE	NAME			Q. A.	
1	1/11	VAC		YOGA	L	T	P	U
2	I/II	VAC		ENVIRONMENTAL STUDIES				4
				THOMMENTAL STUDIES	1/4	0	0	

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The ICFAI University, Tripura

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

Ref No.- IUT/FST/Approval Note/2022-23/D- 891

Date: 10/07/2023

APPROVAL NOTE

The Department of Mathematics, ICFAI Science School, has prepared the 4-year B. Sc. Programme structure under the National Education Policy-2020 (NEP2020) which will be offered in the upcoming academic year 2023-24 with Multiple-Entry-Multiple-Exit scheme (MEME). This will enable the students to enter and exit at multiple levels of their choice. The Department of Mathematics hereby presents the proposed program structure along with MEME Scheme, offered course list.

We recommend and request you to give approval for the above.

Agnalo Ghosh

Dr. Arnab Ghosh

HOD, Department of Mathematics, ISS, FST The ICFAI University Tripura

Prof. Dr. Priyangshu Rana Borthakur

Dean, FST

The ICFAI University Tripura

Prof. Dr. Subhasish Chatterjee

Dean, Academics affairs The ICFAI University Tripura

of. Dr. A. Ranganath

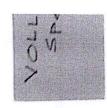
Registrar,

The ICFAI University Tripura

Vice Chancellor,

The ICFAI University Tripura

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



The ICFAI UNIVERSITY OF TRIPURA

Faculty of physical Education and yoga

Syllabus for Master of Physical Education and sports Volleyball Specialization

L-P-1

Semester -I

0-8-4

UNIT	PARTICULARS	REMARKS
CHAPTER THAT IS NOT	UNIT - I INTRODUCTION	
1	A. Historical development of Volleyball at international and	
	national level	
	B. Modern trends and developments in volleyball	
	C. Organization of FIVB and the confederation, constitution of	
	VFI and state bodies	
is all a proposed from the silverse facilities and	UNIT-II RULES AND THEIR INTERPRETATIONS	
	A. Latest rules, and their interpretations	
2	B. Duties and responsibilities of officials	
	C. Mechanism of officiating and scoring	
mi., walkus o lieu Yeuno (IRBN) radiominisari (UNIT-III PREPARATION AND TRAINING	
	A. Prerequisites of preparation and training	
	B. Theory of volleyball training process	
3	C. Principles of warming up and cooling down and their effec	ts,
	General and specific warming up and cooling down (specific	ñc
	exercises for volleyball)	
e mukuwania finai 19.4 asil 1986 asi'	UNIT- IV BASIC SKILLS AND TECHNIQUES (SERVICE,	
	RECIVEING AND PASSING)	
4	A. The serve – underhand, tennis, jump and serve, overhead f	loat
	B. Receiving - Basic techniques	
	C. Passing- Forearm passing, Overhead passing	





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Agenda for BOS Meeting of FoPE&Y on 28.12.2023 at 12 PM.

Item No.	Particulars		
1.	 As per the previous BOS Meeting as on 04.08.2023: a. Syllabus of Certificate Course in Yoga (CCY) has been modified. b. 'Volleyball' Specialization (Course Code: PHE518P) for M.P.Ed. has been implemented from current session. c. 'Martial Art' Specialization (Course Code: PHE519P) for M.P.Ed could not implemented due to some unavoidable circumstances. 		
2.	Agenda: Implementation of a New Course - Fitness and Weight Training (PHE320P) fo B.P.E.S. 3 rd Year, 2 nd Sem.		
3.	Agenda: Implementation of Internship Program for B.P.E.S, B.P.Ed, M.P.E.S. & P.G.D. program as value added course for 2 months in Summer Term.		
4.	Agenda: Miscellaneous		

r. Mithun Chandra Roy Coordinator, FQPE & Y FAI University, Tripura.

Dr. Surjya Kanta Paul Principal, FOPE&Y The ICFAI University, Tripura

Registrat,
ICFAI University Tripura
Kamaighat, Tripura (West).

Agenda:

The agenda deliberated were discussed and following resolutions were passed:

SI.	and following resolutions were passed:					
No.	Particulars					
1.	As per the previous BOS M					
	As per the previous BOS Meeting as on 04.08.2023: a. Syllabus of Certificate Court					
	 a. Syllabus of Certificate Course in Yoga (CCY) has been modified as per their proposal. b. 'Volleyball' Specialization (Course Code: PHF518P) for M.P.Ed. has been implemented. 					
	b. 'Volleyball' Specialization (Course Code: PHE518P) for M.P.Ed. has been implemented from current session.					
	c. Martial Am? Commission.					
	c. 'Martial Art' Specialization (Course Code: PHE519P) for M.P.Ed could not implemented due to some unavoidable simplemented.					
2.	implemented due to some unavoidable circumstances. Agenda: Implementation (Course Code: PHE319P) for M.P.Ed could not					
۷.	implementation of a New Course Pitter 1 to 1 to 1 to 1 to 1 to 1 to 1 to 1 t					
	B.P.E.S. 3rd Year, 2nd Sem.					
	L	P				
	0	8				
		0 .	4			
	Syllabus attached. Resolution: Members of BOS gave nod of approval in this regard.					
3.	Agenda: Implementation of Live His Bos gave nod of approval in this regard.					
٥.	Agenda: Implementation of Internship Program for final year B.P.E.S, B.P.Ed, M.P.E.S. &					
	P.G.D.Y program as value added course for 2 months in Summer Term.					
Resolution: Members of BOS gave nod of approval in this regard.						
	The state of Bob [save nou or approvar in uns re	gaiu.			

The meeting was concluded with the vote of thanks by the chair:

(Name and Signature of all members)

1. Prof. (Dr.) Surjya Kanta Paul, Chairman BOS

2. Dr. Mithun Chandra Roy, Member Secretary

3. Dr. Susanta Sarkar, External Member

Dr. Ashoke Biswas, External Member

5. Dr. Debdulal Baidya, External Member

on line

6. Dr. Laishram Shila Devi, Member

7. Dr. Amit Dahar, Member

8. Mr Laxmindar Debnath, Member

Chairman **Board of Studie** Faculty of Physical Educati The ICFAI University 7

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