त्रिपुरा विश्वविद्यालय
TRIPURA UNIVERSITY
(केन्द्रीय विश्वविद्यालय)
(A CENTRAL UNIVERSITY)
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NOTIFICATION

Date: 17/02/2017

The first meeting of Board of Postgraduate Studies (BPGS) for the Department of Chemical & Polymer Engineering, Tripura University, will be held on **7th March 2017 (Tuesday) at 1.00 PM** in the chamber of Head of the Department. The following agenda will be discussed in the meeting.

1. To prepare academic calendar for the Department of Chemical & Polymer Engineering.
2. To finalize syllabus for M.Tech course in Chemical & Polymer Engineering.
3. To finalize syllabus for PhD course work.
4. To approve list of question paper setters and moderators.
5. To report departmental purchase related issues (Major & Minor instruments)
6. Miscellaneous.

All members are requested to make it convenient to attend the meeting.

17/2/2017

(Prof. M.K. Singh)
Dean, Faculty of Science
Tripura University

1. Prof. Ramgopal Uppaluri (External Member, IIT Guwahati)
2. Prof. D. Khastagir (External Member, IIT Kharagpur)
3. Prof. Dipankar Chattopadhyay (External Member, University of Calcutta)
4. Prof. M.K. Singh (Member, Dean, Faculty of Science, TU)
5. Shri. Harjeet Nath (Member, Faculty of Chemical & Polymer Engineering, TU)
6. Dr. Alok Prasad Das (Member, Faculty of Chemical & Polymer Engineering, TU)
7. Dr. Prasanta Kumar Rout (Member, Faculty of Chemical & Polymer Engineering, TU)
8. P.S. Vice-Chancellor, TU for information
9. P.S. Dean, Faculty of Science (TU) for information and necessary action
10. The Finance Office, TU for information and necessary action

17/2/2017

(Prof. M.K. Singh)
Dean, Faculty of Science
Tripura University

Department of Chemical and Polymer Engineering
Tripura University

Proceedings of the first meeting of Board of Post-Graduate Studies (BPGS) held on 07.03.2017 in Chemical and Polymer Engineering department, Tripura University at 1 p.m.

Members present

1. Prof. Anjan Mukherjee, Pro-Vice-Chancellor, & Chairman(Dean in- charge),Tripura University
2. Prof. RamgopalUppaluri, External Member, Faculty of Chemical Engg., IIT Guwahati
3. Prof. D. Khastagir, External Member, Faculty of Rubber Technology, IIT Kharagpur
4. Prof. Dipankar Chattopadhyay, External Member, Faculty of Polymer Science and Technology, University of Calcutta.
5. Dr. Prasant Kumar Rout, External Member, Faculty of Material Science and Engg., Tripura University
6. Dr. Alok Prasad Das, Internal Member, Faculty of Chemical and Polymer Engg., Tripura University
7. Shri. Harjeet Nath, Internal Member, Faculty of Chemical and Polymer Engg., Tripura University

At the start, Prof. Anjan Mukherjee, Pro-Vice-Chancellor, & Chairman (Dean in-charge), has welcomed all the members to the first BPGC meeting and then, the meeting has started for the discussions on the following agendas.

Agenda 1: To finalize the syllabus for M.Tech. Course in Department Chemical and Polymer Engineering, TU

Syllabi of 1st Semester and 2nd semester were reported to the meeting as the course had already started and it was accepted. The detailed structure of the old syllabus is given in Table 1.The members felt that the need of modification in syllabi of 1st and 2nd semester which would be offered in the next sessions. The modification suggested and approved in the meeting are given in Table 2. The syllabus for 3rd and 4th semester is given in Table 3.

The final complete syllabus (4 semesters) to be followed for the upcoming batches and approved by the BPGS committee is given in Table 4.

Table 1: Detailed syllabus for 1st and 2nd semester students of Dept. of Chemical and Polymer Engineering (1st Batch that started in Academic session 2016-17).

	1st Semester 600 Marks		
Theory Papers (code)	**Name**	**Credit**	**Marks**
CP 901C	Bioprocess Engineering	4	100
CP 902C	Introduction to Polymer Science and Technology	4	100
CP 903E	Fluidization Engineering (elective offered to other dept.)	4	100
CP 904E	Food Technology	3	100
Elective to be taken from other department as per Institute Rules	*Respective Course*	*4*	*100*
Practical Papers	**Name**		**Marks**
CP 905C	Polymer Science and Technology Lab	2	50
CP 906C	Bioprocess Engineering Lab	2	50
	2nd Semester600 Marks		
Theory Papers (code)	**Name**		**Marks**
CP 1001C	Advanced Heat Transfer	4	100
CP 1002C	Polymer Processing	4	100
CP 1003C	Advanced Reaction Engineering	4	100
CP 1004E	Biohydrometallurgy	3	100
COMPUTER SKILL III (As per Institute Rules)	*Soft Computing Skills III*	*4*	*100*
Practical Paper	**Name**		**Marks**
CP 1005C	Polymer Processing Lab	2	100

Table 2: Modified syllabus for 1st and 2nd semester students of Dept. of Chemical and Polymer Engineering for upcoming batches after recommendation by external experts of departmental BPGS committee.

1st Semester

Existing Subject Code	Existing Subject Name	Modified Subject Code	Modified Subject Name
CP901C	Bioprocess Engineering	CP901C	Advanced Reaction Engineering
CP902C	Introduction to Polymer Science& Tech	CP902C	Polymer Science& Technology
CP903E	Fluidization Engg.	CP903C	Heat and Mass Transfer
CP904E	Food Technology	CP904C	Polymer Engineering Lab
CP905C	Polymer Sci.& Tech Lab	CP905C	Reaction Engineering Lab
CP906C	Bioprocess Engg. Lab	CP906E	Rubber Science and Technology
		CP907E	Colloids and Interface Science
		CP908E	Polymer Recycling and Uses

2nd Semester

Existing Subject Code	Existing Subject Name	Modified Subject Code	Modified Subject Name
CP1001C	Advanced Heat Transfer	CP1001C	Advanced Fluid Flow & Rheology
CP1002C	Polymer Processing	CP1002C	Polymer Characterization and Testing
CP1003C	Advance Reaction Engg.	CP1003C	Polymer characterization Lab
CP1004E	Biohydrometallurgy	CP1004E	Polymer Processing
CP1005C	Polymer processing Lab	CP1005E	Fluidization Engineering
		CP1006E	Biomaterials
As per University	Soft computing Skills III	As per University	Soft computing Skills III

Approved in BFS meeting of Science, T.U. dated 16.05.2017

Dean and Chairman, BFS of Science, Tripura University.

Approved in BFS meeting of Science, T.U.

Dean and Chairman, BFS of Science, Tripura University.

Table 3: Syllabus for 3rd and 4th Semester students of Dept. of Chemical and Polymer Engineering

3rd Semester

Existing Subject Code	Existing Subject Name	Modified Subject Code	Modified Subject Name
CP1101C	Project (Literature review+ objectives + Hypothesis + Progress report writing)	CP1101C	Project (Literature review+ objectives + Hypothesis + Progress report writing)
CP1102C	Progress Seminar + Viva-Voce	CP1102C	Progress Seminar + Viva-Voce

4th Semester

CP1201C	Project (Literature review + Methodology + Final Thesis Submission	CP1201C	Project (Literature review + Methodology + Final Thesis Submission
CP1202C	Comprehensive Seminar + Viva-Voce	CP1202C	Comprehensive Seminar + Viva-Voce

Approved in BFS meeting of Science, T.U. dated 16.05.2017

Dean and Chairman, BFS of Science,
Tripura University.

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Table 4: Final BPGS approved syllabus for 4 semester M.Techprogramme in Chemical and Polymer Engineering.

Total Core (C) Credits: 54, Total Elective (E) Credits: 18, Total Credits: 72

1stSemester (600 Marks)				
Theory Paper (code)		**Name**	**Credits**	**Marks**
CP 901C		Advanced Reaction Engineering	4	100
CP 902C		Polymer Science and Technology	4	100
CP 903C		Heat and Mass Transfer	4	100
Dept. Elective *(Students to selectany one from the list)*	CP906E	Rubber Science and Technology	4	100
	CP907E	Colloids and Interface Science	4	100
	CP908E	Polymer Recycling and Uses	4	100
Other Elective		Elective to be taken from other department (compulsory)	4	100
Practical Papers		**Name**	**Credits**	**Marks**
CP904C		Polymer Lab	2	50
CP905C		Reaction Engineering Lab	2	50
2nd Semester (550 Marks)				
Theory Paper(code)		**Name**	**Credits**	**Marks**
CP1001C		Advanced Fluid Flow & Rheology	4	100
CP1002C		Polymer Characterization and Testing	4	100
Dept. Elective *(Students to select any two from the list)*	CP1004E	Polymer Processing	3	100
	CP1005E	Fluidization Engineering	3	100
	CP1006E	Biomaterials	3	100
Other Elective		Skill 3 (Compulsory elective offered by University)	4	100
Practical Papers		**Name**	**Credits**	**Marks**
CP1003C		Polymer characterization Lab	2	50
3rd Semester (300 Marks) Project Identification, literature Survey and Plan of Work(Project: Phase-I)				
Paper		**Name**	**Credits**	**Marks**
CP 1101C		Project (Literature review + Objectives+ Hypothesis + Progress Report Writing)	8	200
CP 1102C		Progress Seminar + Viva- Voce	4	100

Approved in BFS meeting of Science, T.U. dated 16/05/2017

Head

4th Semester (400 Marks) Project Implementation (Project: Phase-II)			
Paper	**Name**	**Credits**	**Marks**
CP1201C	Project (Literature review+Methodology+Final Thesis	10	250
CP1202C	Comprehensive Seminar + Viva-Voce	6	150

It was decided in the meeting that internal members of the committee would prepare the contents of the courses and send them to external members for their considerations and modifications. External members would also provide additional textbooks and reference books names, if required. The same has been done by both the internal and external experts of the BPGS committee and has been incorporated.

Agenda 2: To finalize syllabus for PhD courses

The committee has suggested to follow the University guidelines to prepare PhD syllabus and has also suggested following things for integral assessment of PhD students.

1. State of art seminar:Itincludes fundamentals, solving area of research, how fundamentals are connected to the research area etc.
2. Yearly progress seminar report

Agenda 3: To considerthe nomenclature for the degree to be awarded by the university in the department of Chemical and Polymer Engineering.

It was proposed in the meeting that the nomenclature of the degree to be awarded for the said course would be "**M.Tech in Chemical and Polymer Engineering**" and not "M.Tech in Polymer and Rubber Technology" which was previously proposed in the resolutions of the consultative meeting regarding starting of Chemical and Rubber Technology Department sanctioned by UGC held on 29.08.2014. With the change in the name of the department from "Department of Chemical Engineering and Rubber Technology" to "Department of Chemical and Polymer Engineering" as per the reference letter F.TU/REG/MISC-04/14, the BPGS has decided to propose the above new nomenclature. Hence the proposal of the change in the **nomenclature to "M.Tech in Chemical and Polymer Engineering" would be put in the next BFS Meeting followed by its approval and further action (If any) by the next Academic Council Meeting of Tripura University.**

Agenda 4: To set the eligibility criteria for admission into M.Tech and Ph.D.

The matter was discussed and approved the existing eligibility criteria for admission into M.Tech. Course i,e B.E./B.Tech. in Chemical Engineering/Polymer Engineering,/Chemical and Polymer Engineering/Plastic Engineering/Biotechnology/ Environmental Engineering or M.Sc. in Polymer Science /Rubber Technology/ Chemistry/ Physics/ /Biotechnology.

For admission in Ph.D. programme, the eligibility criteria is M.Tech in Chemical Engineering/Polymer Engineering,/Chemical and Polymer Engineering/Plastic Engineering/Rubber Technology/ Biotechnology/ Environmental Engineering/ Material Science and Engineering or M.Sc. in Polymer Science /Rubber technology/Material Science/Chemistry/ Physics/ Biotechnology.

Agenda 5: To consider the list of instruments for the department

The department proposed a number of instruments and equipments for the smooth functioning of department and list was placed in the meeting. The matter was discussed and members felt that the need of the following equipments/ instruments for the department in 1st phase

1. DSC	2. FTIR
3. Digital PH Meter,	4. Thermal Cycler,
5. Hot Air Oven,	6. Microcontroller,
7. Turbidity Meter,	8. Spectrophotometer,
9. Distilled Water Plant,	10. Vertical Autoclave,
11. Water Bath	12. Shaker,
13. Deep Freezer,	14. Laboratory Stirrer,
15. Laboratory Stirrer With Hot Plate,	16. Cooling Refrigerated Centrifuge,
17. Bacteriological Incubator,	18. Hot Plate,
19. Horizontal Laminar Flow,	20. Digital Weighing Balance,
21. Chiller	22. Sieve Shaker etc

Agenda 6: To prepare academic calendar for the department of Chemical and Polymer Engg.

The Committee members have approved the academic calendar with few minor changes.

Prof. Anjan Mukherjee (Pro-Vice-Chancellor)
Faculty of Mathematics & Chairman (Dean in- charge)
Tripura University

Copy to:

1. All BPGS members
2. The Dean, Faculty of Chemistry