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Four Weeks Training in reputed Industry/Laboratory in institution of repute such IITs,NITs,CSIR,DRDO,CSIO etc. 1 CHT-911 Process Modelling and Simulation 2 CHT-912 Elective III 3 CHP-911 Dissertation (Part I)	Total Semester-II B (PG)	Seminar	Multicomponent Mass Transfer Lab	Elective II	Chemical Engineering Interlibuyilaiiiics	Heat Transfer	Multicomponent Mass Transfer	Subject Name	Semester-II A (PG)	Total	Fluid Mechanics Lab	Catalytic Reaction Engineering Lab	Elective I	Fluid Mechanics	Catalytic Reaction Engineering	Transport Phenomena	Staistics and Numerical Methods	Subject Name	Semester-I (PG)	M. Tech. in Chemical Engineering
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CHT-912D Paper Machine Operations	Biochemical Engineering	Alternate Energy Sources	Polymer Composites and Blends	Subject Name	Elective III	CHT-825C Air Pollution Control Engineering	Bioresource Technology	Advanced Polymer Material Technology	Subject Name	Elective II	Environmental Engineering	Advances in Paper Technology	Polymer Technology	Subject Name	Elective I	List of Electives		Total	Dissertation (Part II)	Semester-IV (PG)	Total
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NANC #

M. Tech. (ChE)

Programme Educational Objectives

- 1. Prepare students who can take up professional assignments in basic and applies research in chemical engineering industry and academic area.
- 2. To equip the students with ability in advanced conceptual understanding in solving real time problems with special emphasis on process integration, energy efficiency and cleaner production.
- 3. To equip the students with technical knowhow for economic and social development of rural and urban India.

Programme Objectives

1. Scholarship of Knowledge

Acquire in-depth knowledge of specific discipline or professional area, including wider and global perspective, with an ability to discriminate, evaluate, analyse and synthesise existing and new knowledge, and integration of the same for enhancement of knowledge.

2. Critical Thinking

Analyse complex engineering problems critically, apply independent judgement for synthesising information to make intellectual and/or creative advances for conducting research in a wider theoretical, practical and policy context.

3. Problem Solving

Think laterally and originally, conceptualise and solve engineering problems, evaluate a wide range of potential solutions for those problems and arrive at feasible, optimal solutions after considering public health and safety, cultural, societal and environmental factors in the core areas of expertise.

4. Research Skill

Extract information pertinent to unfamiliar problems through literature survey and experiments, apply appropriate research methodologies, techniques and tools, design, conduct experiments, analyse and interpret data, demonstrate higher order skill and view things in a broader perspective, contribute individually/in group(s) to the development of scientific/technological knowledge in one or more domains of engineering.

5. Usage of modern tools

Create, select, learn and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling, to complex engineering activities with an understanding of the limitations.

6. Collaborative and Multidisciplinary work
Possess knowledge and understanding of group dynamics, recognise opportunities and

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contribute positively to collaborative-multidisciplinary scientific research, demonstrate a capacity for self-management and teamwork, decision-making based on open-mindedness, objectivity and rational analysis in order to achieve common goals and further the learning of themselves as well as others.

7. Project Management and Finance

Demonstrate knowledge and understanding of engineering and management principles and apply the same to one's own work, as a member and leader in a team, manage projects efficiently in respective disciplines and multidisciplinary environments after considerisation of economical and financial factors.

8. Communication

Communicate with the engineering community, and with society at large, regarding complex engineering activities confidently and effectively, such as, being able to comprehend and write effective reports and design documentation by adhering to appropriate standards, make effective presentations, and give and receive clear instructions.

9. Life-long Learning

Recognise the need for, and have the preparation and ability to engage in life-long learning independently, with a high level of enthusiasm and commitment to improve knowledge and competence continuously.

10. Ethical Practices and Social Responsibility

Acquire professional and intellectual integrity, professional code of conduct, ethics of research and scholarship, consideration of the impact of research outcomes on professional practices and an understanding of responsibility to contribute to the community for sustainable development of society.

11. Independent and Reflective Learning

Observe and examine critically the outcomes of one's actions and make corrective measures subsequently, and learn from mistakes without depending on external feedback.

Program Specific outcome

12. Ability to apply advanced chemical engineering knowhow for inception and development of process for the future utilization of renewable resources

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