

Annexure – IV



DEPARTMENT OF CHEMICAL ENGINEERING

CIRCULAR

Date: 07.03.2025

Department of Chemical Engineering is going to conduct Board of Studies (BoS) meeting for the B.Tech programme in Chemical Engineering on 15.03.2025 from 2.00 PM in blended mode. The BoS meeting was held at the office of the Head of the Department, Chemical Engineering Department, First Floor, H-Block, VFSTR. All the members joined through Zoom link: <https://us05web.zoom.us/j/86990085532?pwd=hvWmO208IQSygeCPYrvpcuxHdimKv2.1>

The members are

1. Dr. Dr. M. Ramesh Naidu, Professor and Head, Chemical Engineering, VFSTR - Chairperson
2. Dr. Nageswara Rao Peela - External Member (Academic)
3. Dr. Dr. Sunil Dhole - External Member (Industry)
4. Dr. T. Subbaiah - Internal Member
5. Dr. P. Ashok Kumar - Nominee (Dean R& D)
6. Dr. P. Bangaraiah - Nominee (Dean-School)
7. Prof. Dr. Venkata Satyanarayana Suggala - Invitee (Academia)
8. Dr. B. Sumalatha Associate Professor, Chemical Engineering - Member Secretary

Agenda of the BoS Meeting:

1. To Discuss and finalize the curriculum structure and credits distribution of B.Tech., Chemical Engineering Programme for the regulation 2025 (R25-C25).
2. To Discuss and finalize the Department elective courses list and stream of B.Tech., Chemical Engineering Programme for the regulation R25-C25.
3. To Discuss about the SDG and IKS components in the syllabus.
4. To approve the R25-C25 assessment schemes of B.Tech, Chemical Engineering Programme and recommend to the Academic Council.
5. NPTEL Courses for even and odd semesters.
6. Any other points with the permission of the Chairperson.

Member Secretary

Chairperson

Annexure – V



DEPARTMENT OF CHEMICAL ENGINEERING

Date: 15.03.2025

Minutes of Board of Studies Meeting


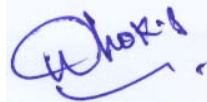


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3. To Discuss about the SDG and IKS components in the syllabus.
4. To approve the R25-C25 curriculum, syllabus and assessment schemes of B.Tech., Chemical Engineering Programme and recommend to the Academic Council.
5. NPTEL Courses for even and odd semesters.
6. Any other points with the permission of the Chairperson.

The following members were present either thorough offline or online.

S.No.	Name and Designation of the Member	Position	Signature
1.	Dr. M. Ramesh Naidu, Professor and Head, Chemical Engineering Department, VFSTR	Chairperson	
2.	Dr. Nageswara Rao Peela, Professor, Dept. of Chemical Engineering, IIT-Guwahati	External Member (Academic)	Online
3.	Dr. Sunil Dhole, Director, Technorbital Advanced Material Pvt. Ltd., Kanpur	External Member (Industry)	-

4.	Dr. T. Subbaiah	Internal Member	
5.	Dr. P. Ashok Kumar	Nominee (Dean-R&D)	
6.	Dr. P. Bangaraiah	Nominee (Dean-School)	
7.	Prof. Dr. Venkata Satyanarayana Suggala, Professor, Dept. of Chemical Engineering, JNTU-Ananthapur	Invitee	Online
8.	Dr. B. Sumalatha	Member Secretary	

The following member have taken leave of absence:

1. Dr.Sunil Dhole, Director, Technorbital Advanced Material Pvt. Ltd., Kanpur

Chairperson Dr. M. Ramesh Naidu, Professor and Head, department of Chemical Engineering, VFSTR initiated the meeting by welcoming and introducing the external members and invitees to the internal members. Chairperson presented about the *NEP 2020 Compliant Regulation - R25-C25* which emphasis on creating *learning centric* (continuous learning and continuous assessment model), offering B.Tech., B.Tech. with Honours / Research Honours / Minor / Add-on Diploma, providing lateral entry and honourable exit.

The following points were discussed in the BoS meeting:

1. Regulation R25-C25.
2. Curriculum structure with credits, credits distribution (L-T-P-SL).
3. Significance of self-learning (SL)
4. 2 Modules, Module-1 is fundamental with 2 units and Module-2 is fundamental with 2 units.
5. Assessment methods (Formative & Summative).
6. Grading Schemes.
7. Department Elective and Honour courses (streams/pools).
8. Open Elective and Minor courses (streams/pools).
9. Information related to NPTEL courses for the Academic Year 2025-26.
10. Creative work-in-Liu-Course work
11. SDG Mapping and incorporation of IKS components
12. Consideration of new program outcomes (POs) as prescribed by the NBA

The following are the observations:

1. Major restructuring has taken place in the curriculum which is oriented towards continuous learning and assessment based on Module structure.
2. Major reformation has taken place in the curriculum by offering Honours/Specialization degree or Minor degree through 16 more credits with additional courses.
3. R25-C25 curriculum structure including list of professional core, department elective, open elective, Minor, Honour, NPTEL courses of B.Tech., Chemical Engineering programme. **(Appendix - I)**
4. The curriculum is encompassing the courses that enable employability or entrepreneurship or skill development, provided in **Appendix - II**.
5. Total average percentage of syllabus revised was **23%** compared to previous curriculum provided in **Appendix - III**.
6. The significant changes are made in the content of all courses and hence the courses are considered as new courses provided in **Appendix - IV**.
7. NPTEL Courses for even and odd semesters
8. Feedback from various stakeholders are incorporated appropriately in the R25-C25 curriculum.

The following improvements are suggested: (Action Points)

1. External members suggested creating more awareness about IKS among faculty members by conducting either department workshops or institute-level workshops
2. **Indian Knowledge System (IKS)** components to be incorporated in the relevant courses.
3. The courses in the curriculum to be mapped with the **Sustainable Development Goals (SDG)**
4. Prof. Satyanarayana suggested the inclusion of Chemical Process Flow sheeting as a subject.
5. Dr. Nageswara Rao recommended incorporating Zero Liquid Discharge (ZLD), Common Effluent Treatment Plants (CETPs), and Cleaner Production Technology (CPT) along with Best Available Techniques (BAT) into the Industrial Effluent Methods subject.
6. Prof. Satyanarayana also suggested the inclusion of Environmental, Social, and Governance (ESG) concepts in the Health, Environment, and Safety Management course.
7. Prof. Satyanarayana suggested that, if feasible, an Honors course in Process Engineering / Process Safety may be included in the C-24 / R-25 curriculum.

The following recommendations and approvals are made after the discussion:

1. BoS Members approved the revised regulations, curriculum structure, syllabus, and assessment schemes of the B.Tech., Chemical Engineering programme, and it follows the NEP 2020.
2. The details of the Department elective courses of B.Tech. Chemical Engineering Programme for the regulation R25-C25 is approved.
3. NPTEL courses are approved for the Academic Year 2025-26.
4. The Process Engineering Honors program has been designed and implemented starting from the C-24 and R-25 curricula.

There being no further points for discussion, the Chairperson thanked all the external, internal, invited members and announced that the meeting was concluded.



Member Secretary



Chairperson