

DEPARTMENT OF CHEMICAL ENGINEERING

Date: 14.09.2024

Minutes of Board of Studies meeting

The Board of Studies (BoS) meeting of the B.Tech., Chemical Engineering program was conducted on 14th September 2024 in blended mode from 2 PM onwards. The BoS meeting was held at the office Head of the department, Chemical Engineering Department, VFSTR, Vadlamudi. All the members joined through Zoom link:

<https://us06web.zoom.us/j/84640118162?pwd=YVYwMlFrcmZTRUU0LzNDc0YyVHZvQT09>

Agenda of the BOS meeting:

- Points for approval
 - Course structure and credit distribution of C24 (curriculum 24)
 - Syllabus for program-specific mathematics(Transforms and Numerical Techniques), Analytical chemistry and Design Thinking and Engineering Orientation
 - Syllabus and L-T-P structure of program core and program electives
 - SWAYAM-NPTEL courses
- Points for discussion
 - Summative assessment question papers of the 2023-2024 II semester
 - Results analysis of academic year 2023-2024 II semester
 - Any other points with the permission of the Chairperson.

The following members were present either through offline or online.

S.No.	Name of the Member	Designation	Role
1.	Dr. M. Ramesh Naidu	Professor & Head, Chemical Engineering, VFSTR.	Chairperson <i>M. Ramesh</i>
2.	Dr. B. Sumalatha	Associate Professor	Member Secretary <i>B. Sumalatha</i>
Internal Experts			
1	Dr. T. Subbaiah	Research Advisor	Member <i>T. Subbaiah</i> (Nominee Dean R&D)
2	Dr. P. Ashok Kumar	Professor	Member <i>P. Ashok Kumar</i>
3	Dr. P. Bangaraiah	Professor	Member <i>P. Bangaraiah</i>
4	Dr. P. Vijetha	Associate Professor	Member <i>P. Vijetha</i>
External experts			
1	Dr. Nageswara Rao Peela	Professor, Dept. of Chemical Engineering, IIT-Guwahati	External Member <i>online</i>
2	Dr. Sunil Dhole	Director, Technorbital Advanced Material Pvt. Ltd., Kanpur	External Member <i>online</i>
3	Prof. Dr. Venkata Satyanarayana Suggala	Professor, Dept. of Chemical Engineering, JNTU-Ananthapur	Invited Member <i>online</i>

Chairperson Dr. M. Ramesh Naidu Professor and Head, Chemical Engineering Department, VFSTR opened the meeting by welcoming and introducing the external members, and invitees to the internal members and explained the agenda points of the meeting.

The following points were discussed in the BOS meeting:


1. Course structure and credit distribution of C24 (curriculum 24)
2. Syllabus for program-specific mathematics, Analytical chemistry and Design thinking
3. Syllabus and L-T-P structure of program core and program electives
4. Summative question papers of the academic year 2023-2024, II semester.
5. Results of the academic year 2023-2024, II semester.
6. SWAYAM-NPTEL courses

The following resolutions were made after discussion:

1. The chairman of BoS has presented the analysis of feedback from various stakeholders, recommendations of the DAAC, course structure, and credit distribution of C24. The committee has approved the course structure and credit distribution.
2. At length syllabus and L-T-P structure of the department-specific mathematics (Transforms and Numerical Techniques), Analytical chemistry, Design Thinking and Engineering Orientation, program core and program electives were discussed and approved and attached in Appendix I.
3. All the external BoS members highly appreciated the activity-based elective (Analysis Of Techno-Economic Feasibility Of The Chemical Process Plant).
4. BoS members reviewed and approved the NPTEL courses proposed by the DAAC and attached in Appendix-II.
5. The members elaborately discussed and appreciated the quality of module banks, assignments and summative assessment question papers.

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


Member Secretary


Chairperson
HEAD
Department of Chemical Engineering
VIGNAN'S FOUNDATION
FOR SCIENCE, TECHNOLOGY & RESEARCH
Declared to be Deemed University, U/S 3 of UGC Act 1956)
VADLAMUDI-522 213, A.P. INDIA

**VIGNAN'S**

Foundation for Science, Technology & Research

(Deemed to be UNIVERSITY)

-Estd. u/s 3 of UGC Act 1956

DEPARTMENT OF CHEMICAL ENGINEERING**APPENDIX - I****B. Tech Chemical Engineering : Curriculum Structure**

Program	Course Code	Course Title	L	T	P	C	Course Category
Chem	24CH202	Analytical Chemistry	2	2	2	4	Basic Sciences
Chem	24CH299	Design Thinking and Engineering Orientation	3	2	0	4	Basic Sciences
Chem	24CH204	Transforms and Numerical Techniques	3	2	0	4	Basic Sciences
Chem	24CH203	Chemical Engineering Thermodynamics – II	2	4	0	4	Professional core
Chem	24CH301	Chemical Reaction Engineering - II	2	2	0	3	Professional core
Chem	24CH806	Environmental Engineering	2	4	0	4	Department Elective
Chem	24CH807	Environmental Regulations and Impact Analysis	2	4	0	4	Department Elective
Chem	24CH811	Industrial Effluent Treatment Methods	2	4	0	4	Department Elective
Chem	24CH820	Solid Waste Management and Treatment	2	4	0	4	Department Elective
Chem	24CH803	Conventional and Non-Conventional Energy Resources	2	4	0	4	Department Elective
Chem	24CH804	Energy Integration	2	4	0	4	Department Elective
Chem	24CH805	Energy Management and Auditing	2	4	0	4	Department Elective
Chem	24CH809	Green Fuels	2	4	0	4	Department Elective
Chem	24CH823	Waste Heat Recovery	2	4	0	4	Department Elective
Chem	24CH824	Waste to Energy Conversion	2	4	0	4	Department Elective
Chem	24CH810	Health, Environment and Safety Management	2	4	0	4	Department Elective
Chem	24CH813	Industrial Safety Engineering	2	4	0	4	Department Elective
Chem	24CH815	Natural Gas Engineering and Energy Resources Management	2	4	0	4	Department Elective

Chem	24CH817	Petrochemicals	2	4	0	4	Department Elective
Chem	24CH818	Petroleum Refinery Engineering	2	4	0	4	Department Elective
Chem	24CH821	Surface Production Operation	2	4	0	4	Department Elective
Chem	24CH801	Aspen Plus: Chemical Engineering Application	2	4	0	4	Department Elective
Chem	24CH802	Computational Fluid Dynamics	2	4	0	4	Department Elective
Chem	24CH808	Fundamentals of Nanotechnology	2	4	0	4	Department Elective
Chem	24CH812	Industrial Instrumentation	2	4	0	4	Department Elective
Chem	24CH814	MATLAB Programming for Chemical Engineers	2	4	0	4	Department Elective
Chem	24CH816	Novel Separation Processes	2	4	0	4	Department Elective
Chem	24CH819	Process Modelling and Optimization Techniques In Chemical Engineering	2	4	0	4	Department Elective
Chem	24CH822	Transport Phenomena	2	4	0	4	Department Elective

APPENDIX – II

Course Code	Course Name
noc25-ch37	Physico-chemical processes for wastewater treatment
noc25-ch24	Environmental Quality Monitoring & Analysis
noc25-ch29	Matlab Programming for Numerical Computation
noc25-ch16	Chemical Process Utilities
noc25-ch39	Process Equipment Design
noc25-ch14	Chemical Process Instrumentation
noc25-ch09	Biomass Conversion and Bio refinery
noc25-ch06	Aspen Plus Simulation Software - A Basic Course for Beginners