



VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be UNIVERSITY)
-Estd. u/s 3 of UGC Act 1956



DEPARTMENT OF CIVIL ENGINEERING

CIRCULAR

Date: 18.03.2024

Department of Civil Engineering is going to conduct Board of Studies (BoS) meeting for B. Tech Civil Engineering programme on 02.04.2024 from 02:00 P.M onwards in AFF-10, First floor, U-Block, VFSTR, Vadlamudi. The Google online link for the meeting is <https://meet.google.com/uum-yieg-azx>. All the members are requested to make it convenient to attend the meeting.

The members are:

S. No	Name and Designation of member	Position
1	Dr. M. Karthikeyan, Professor & HoD Department of Civil Engineering, VFSTR Mail ID:- hod_civil@vignan.ac.in Mobile No: +91-9095239038	Chairperson
2	Prof. G. Apparao Department of Civil Engineering, IIT Madras Mail ID:- garao@iitm.ac.in Mobile No: +91-9444047421	External Member (Academic)
3	Mr. Er. C. Sanakarlingam Vice President & Head, Special Projects L&T Construction, Chennai Mail ID:- c.sankarlingam651955@gmail.com Mobile No:	External Member (Industry)
4	Prof. D. V. Prasad Rao Department of Civil Engineering SV University, Tirupathi, Andhra Pradesh. Mail ID:- dvprsvu@gmail.com Mobile No: +91-9704387674	Invited External Member (Academic)
5	Mr. M. Sudhakar General Manager Vishwa Infrastructure and Services Pvt Ltd Mail ID:- sudhakar-projects@vishwainfra.in Mobile No: +91-8008304679	Invited External Member (Industry)

6	Dr. V. Purna Chandra Rao, Professor & Scientist Department of Civil Engineering, VFSTR Mail ID: - vprao55@gmail.com Mobile No: +91-9422416008	Internal Member
7	Dr. A. Siva Sankar, Professor Department of Civil Engineering, VFSTR Mail ID:- drass_civil@vignan.ac.in Mobile No: +91-8333037989	Internal Member
8	Dr. P. Parthiban, Assistant Professor. Department of Civil Engineering, VFSTR Mail ID: - drpp_civil@vignan.ac.in Mobile No: +91-9944552290	Internal Member
9	Dr. M. V. Raju, Assistant Professor, Dy Head Department of Civil Engineering, VFSTR Mail ID:- mvr_civil@vignan.ac.in Mobile No: +91-9000842284	Dean R&D Nominee
10	Mr. M. Anirudh, Assistant Professor Department of Civil Engineering, VFSTR Mail ID:- ma_civil@vignan.ac.in Mobile No: +91-9030557363	Dean School Core Engineering Nominee
11	Mr. K. Bala Gopi Krishna, Assistant Professor Department of Civil Engineering, VFSTR Mail ID:- bgk_civil@vignan.ac.in Mobile No: +91-9985385856	Member Secretary

Agenda of the BoS Meeting:

1. To Discuss and finalize the revised curriculum structure and detailed syllabus of B.Tech., Civil Engineering Programme for the regulation 2022.
2. To approve the revised R22 curriculum and syllabus of B. Tech., Civil Engineering Programme and recommend to the Academic council.
3. Approval of change in L-T-P structure, No. of credits or contents of existing courses.
4. Approval of NPTEL courses.
5. Any other points, if required.

K. Bala Gopi Krishna
Member Secretary

[Signature]
Chairperson
12/3/2024

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**School of Core Engineering
Department of Civil Engineering**

Date:18/04/2024

Minutes of Board of Studies Meeting

Board of Studies (BoS) meeting of B. Tech., Civil Engineering programme was conducted on 02.04.2024 in blended mode from 02.00 PM to 5.00 PM. The venue of the meeting is AFF-10, Seminar Hall, Department of Civil Engineering, U-Block, VFSTR, Vadlamudi. The Google online link for the meeting is <https://meet.google.com/uum-yieg-azx>.

Agenda of the BoS Meeting:

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3. Approval of change in L-T-P structure, No. of credits or contents of existing courses.
4. Approval of NPTEL courses.
5. Any other points with the permission of Chairperson.

The following members were present either through online or offline

S. No	Name and Designation of member	Position	Signature
1	Dr. M. Karthikeyan, Professor & HoD Department of Civil Engineering, VFSTR Mail ID:- hod_civil@vignan.ac.in Mobile No: +91-9095239038	Chairperson	 18/4/2024
2	Prof. G. Apparao Department of Civil Engineering, IIT Madras Mail ID:- garao@iitm.ac.in Mobile No: +91-9444047421	External Member (Academic)	Attended Online
3	Mr. Er. C. Sanakarlingam Vice President & Head, Special Projects L&T Construction, Chennai Mail ID:- c.sankarlingam651955@gmail.com	External Member (Industry)	Attended Online

4	Prof. D. V. Prasad Rao Department of Civil Engineering SV University, Tirupathi, Andhra Pradesh. Mail ID:- dvprsvu@gmail.com Mobile No: +91-9704387674	Invited External Member (Academic)	Attended online
5	Mr. M. Sudhakar General Manager Vishwa Infrastructure and Services Pvt Ltd Mail ID:- sudhakar-projects@vishwainfra.in Mobile No: +91-8008304679	Invited External Member (Industry)	Attended online
6	Dr. V. Purna Chandra Rao, Professor & Scientist Department of Civil Engineering, VFSTR Mail ID: - vpao55@gmail.com Mobile No: +91-9422416008	Internal Member	<i>V. Purnachandra Rao</i>
7	Dr. A. Siva Sankar, Professor <i>Joint Dean R&D</i> Department of Civil Engineering, VFSTR Mail ID:- drass_civil@vignan.ac.in Mobile No: +91-8333037989	Internal Member	<i>A. Siva Sankar</i>
8	Dr. P. Parthiban, Assistant Professor. Department of Civil Engineering, VFSTR Mail ID: - drpp_civil@vignan.ac.in Mobile No: +91-9944552290	Internal Member	<i>Parthiban.P</i>
9	Dr. M. V. Raju, Assistant Professor, Dy Head Department of Civil Engineering, VFSTR Mail ID:- mvr_civil@vignan.ac.in Mobile No: +91-9000842284	Dean R&D Nominee	<i>M. V. Raju</i>
10	Mr. M. Anirudh, Assistant Professor Department of Civil Engineering, VFSTR Mail ID:- ma_civil@vignan.ac.in Mobile No: +91-9030557363	Dean School Core Engineering Nominee	<i>M. Anirudh.</i>
11	Mr. K. Bala Gopi Krishna, Assistant Professor Department of Civil Engineering, VFSTR Mail ID:- bgk_civil@vignan.ac.in Mobile No: +91-9985385856	Member Secretary	<i>B. G. Krishna</i>

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

The following points were discussed in the BoS meeting:

1. Revised course structure for R22 is discussed.
2. Credits for Basic sciences is increased to 30 Credits out of 160 credits.
3. Introducing of Field projects in II-year & continuation of projects in III-year.
4. Relative grading with modified – qualifying criteria.
5. Courses list is proposed from NPTEL.

The following resolutions made after the discussion:

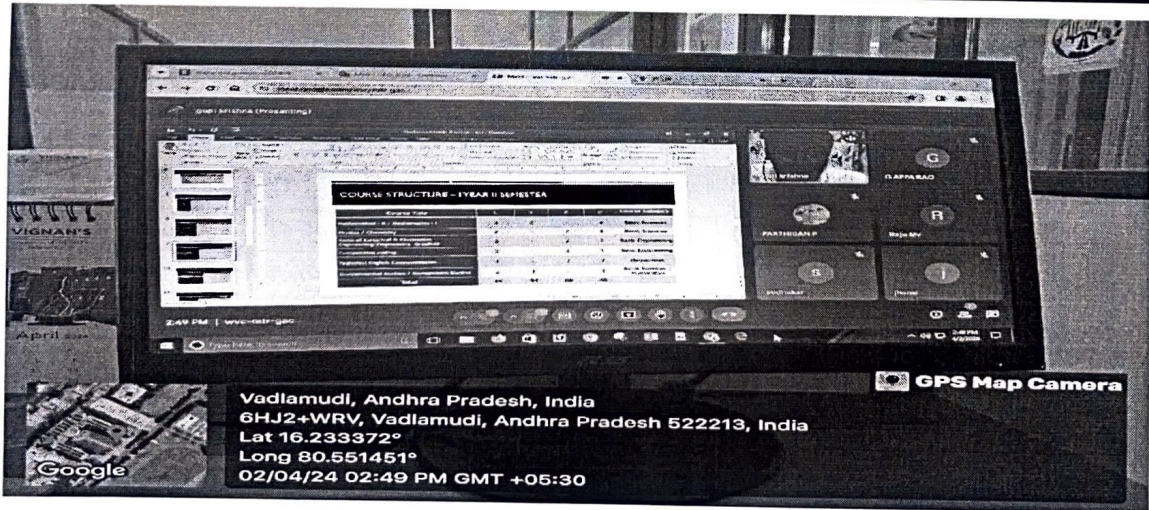
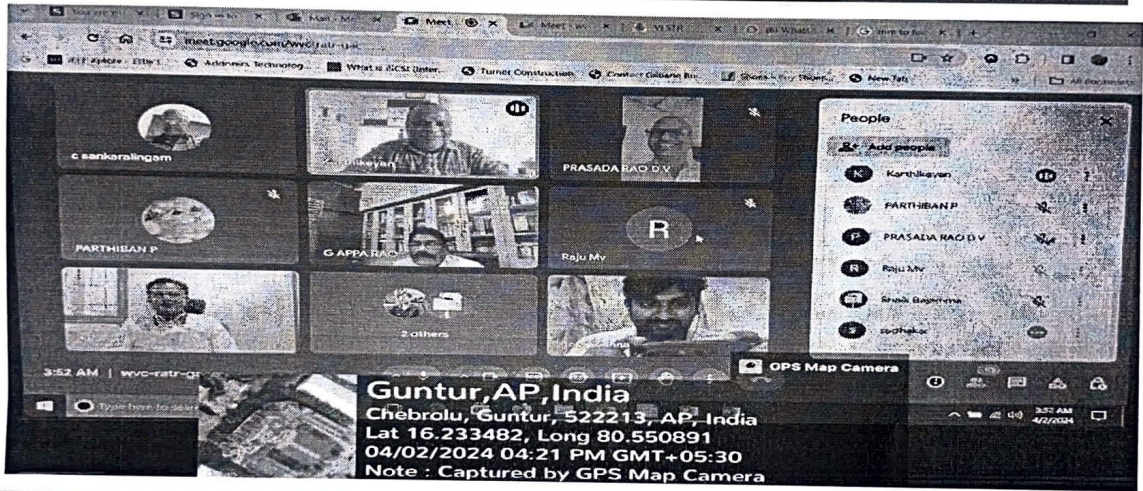
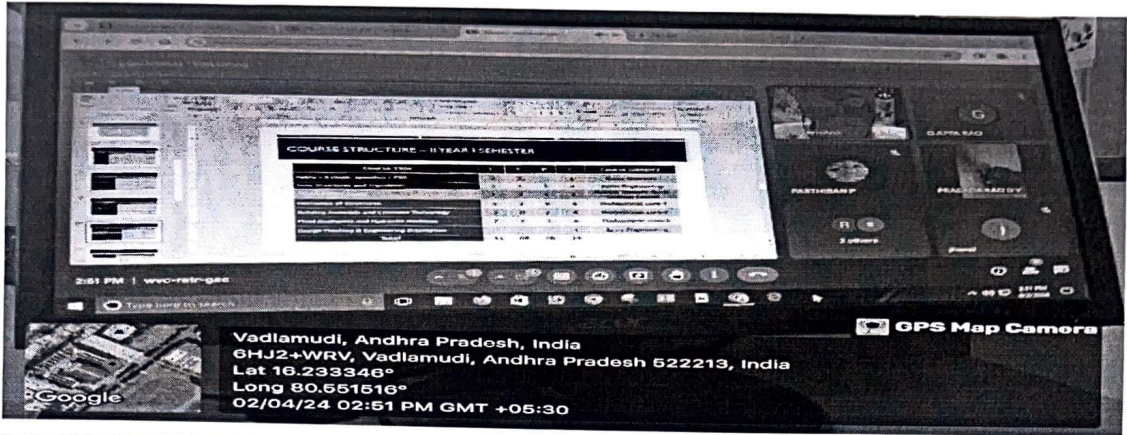
1. BoS Members approved the revised R22 regulations, curriculum structure, syllabus of B.Tech., Civil Engineering programme and it follows based on the NEP 2020. Curriculum structure is provided in Appendix-I.
2. Major restructuring has taken place in the curriculum which is oriented towards continuous learning and assessment based on Module structure.
3. BoS Members has recommended to keep “Building Materials and Concrete Technology” as a Branch specific Basic Science Course.
4. The committee approved the DAAC recommended changes in some of the courses like, in Strength of Materials removal of some topics like Stresses in case of dams, conditions of stability, and in Design of steel of structures course addition of topics like design of slab base & gusset base and design of foundation.
5. The committee recommended to change the course title for “Transportation Engineering” to “Highway & Traffic Engineering” and “Engineering Economics, Estimation and Costing” to “Estimation & Costing”.
6. Stakeholders feedback is analyzed thoroughly and the curriculum follows the choice based credit system (CBCS).
7. The committee has approved the list of NPTEL courses offered and it was provided in Appendix – I.

Based on the suggestions given by the members, the chairperson of BoS told that, those fruitful suggestions will be incorporated appropriately in the curriculum and syllabi of the regulation R22 and this will be recommended to the academic council of VFSTR for the approval.

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


Member Secretary


Chairperson





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DEPARTMENT OF CIVIL ENGINEERING

APPENDIX I

B. Tech in Civil Engineering Programme: Curriculum Structure I Year I Semester

Course Title	C	Course category
Mathematics – I / Mathematics – II	4	Basic Sciences
Physics / Chemistry	4	Basic Sciences
Basic of Electrical & Electronics Engineering/ Engineering Graphics	3	Basic Engineering
Programming in C	3	Basic Engineering
English Proficiency & Communication Skills (PET)	1	Humanities
IT Tools & Cyber security	2	Basic Engineering
Environmental Studies / Management Studies	3	Basic Sciences / Humanities
Total	20	

I Year II Semester

Course Title	C	Course category
Mathematics – II / Mathematics – I	4	Basic Sciences
Physics / Chemistry	4	Basic Sciences
Basic of Electrical & Electronics Engineering/Engineering Graphics	3	Basic Engineering
Competitive coding	3	Basic Engineering
Technical English Communication	3	Humanities
Environmental Studies / Management Studies	3	Basic Sciences / Humanities
Total	20	

II Year I Semester

Course Title	C	Course category
Maths – 3 (Dept. Specific) / P&S	4	Basic Sciences
Data Structures and Algorithms	4	Basic Engineering
Building Materials and Concrete Technology	3	Basic Sciences
Strength of Materials	4	Professional core
Engineering Geology	4	Professional core
Fluid Mechanics and Hydraulic Machines	4	Professional core
Design Thinking & Engineering Orientation	1	Basic Engineering
Total	24	

II Year II Semester

Course Title	C	Course category
Maths – 3 (Dept. Specific) / P&S	4	Basic Sciences
Practicing Data Structures	1	Basic Engineering
Field projects / IDP	1	Project
Surveying and Geomatics	4	Professional core
Structural Analysis	4	Professional core
Environmental Engineering	4	Professional core
Open Elective – 1 (NPTEL)	3	Open Elective
Total	21	

III Year I Semester

Course Title	C	Course category
Soft Skills Laboratory	1	Humanities
Design of Reinforced Concrete Structures	4	Professional core
Geotechnical Engineering	4	Professional core
Department Elective – 1	4	Department Elective
Department Elective – 2	3	Department Elective
Open Elective – 2	3	Open Elective
Industry interface course (Modular course)	1	Department Elective
BEC Certification	1	Humanities
Total	21	

III Year II Semester

Course Title	C	Course category
Quantitative aptitude & Logical reasoning	2	Humanities
Design of Steel Structures	4	Professional core
Highway and Traffic Engineering	4	Professional core
Water Resource Engineering	3	Professional core
Department Elective – 3	4	Department Elective
Open Elective – 3	3	Open Elective
Field projects / IDP	1	Project
Total	21	

IV Year I Semester

Course Title	C	Course category
Professional ethics	2	Humanities
Estimation and Costing	4	Professional core
Department elective – 4	4	Department Elective
Advance Structural Analysis	3	Professional core
Department Elective – 5	4	Department Elective
Department Elective – 6	4	Department Elective
Total	21	

IV Year II Semester

Course Title	C	Course category
Internship / Project Work	12	Project
Total	12	

List of NPTEL Courses

Course Name	NPTEL Course ID
Advanced Foundation Engineering	Noc24-ce01
Earthquake Resistant Design of Foundations	Noc24-ce09
Structural Dynamics	noc24-ce32
Water and Waste Water Treatment	Noc24-ce39
Advanced Topics in Science and Technology of Concrete	Noc24-ce54


27/4/2024
Chairperson