



TKR COLLEGE OF ENGINEERING & TECHNOLOGY

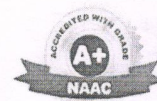
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(Sponsored by TKR Educational Society, Approved by AICTE, Affiliated to JNTU H)

Medbowli, Meerpet, Balapur, Hyderabad, Telangana - 500 097

Phone: 9100377790, email: info@tkrcet.ac.in, web site: www.tkrct.ac.in



DEPARTMENT OF CIVIL ENGINEERING

Minutes of Meeting (MoM) – Board of Studies (BoS)

Date: 18-08-2025

The Board of Studies (BoS) meeting was convened on 18-08-2025 under JNTUH Nominee Dr. S. Srinivasulu along with V. Sai Vikas, Chairman of Civil BoS along with HoD – Dr. KVR Satya Sai to review and update the R25 academic curriculum in alignment with current industry trends, regulatory guidelines, and institutional goals. The meeting brought together faculty members, subject experts and industry experts, to deliberate on proposed R25 course structure, syllabus revisions.

The primary agenda of this BoS session are as follows:

AGENDA POINTS:

Agenda Item No.	Agenda
1	: Approval of R25 Course Structure and Classification
2	: Approval of Changes in Course Titles
3	: Inclusion of New Courses
4	: Approval of Value Added, Skill Development, and Mandatory Courses
5	: Approval of Professional Electives
6	: Approval of Open Electives
7	: Identification of Employability-Oriented Courses
8	: Approval of New Laboratories (if any introduced)

Resolutions:

Agenda Item 1: Approval of R 25 Course Structure and Classification

The Board of Studies members **provisionally approved** the proposed **four year R25 Course Structure** along with the suggested classification. The **First Year R25 Course Structure** was

Members Present:

Dr. S. Srinivasulu	JNTUH Nominee	
Dr. CSV Subrahmanya Kumar	BOS Member (External)	
Dr. C. Hari Prasad	BOS Member (External)	
M. Malla Reddy	BOS Member (Industry)	
Dr. KVR Satya Sai	HoD / Civil Engineering	
V. Sai Vikas	BOS Chairman	
Md. Burhan Ahmed	BOS Member	



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discussed in detail and approved. The **Second, Third, and Fourth Year Course Structures** will be reviewed and approved in the upcoming BoS meetings.

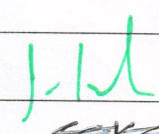
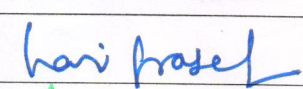
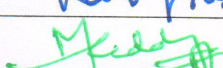
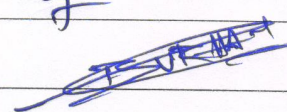
R25 Credits Distribution for all 8 Semesters

Class	I-I	I-II	II-I	II-II	III-I	III-II	IV-I	IV-II	TKRCET	JNTUH
	Sem1	Sem2	Sem3	Sem4	Sem5	Sem6	Sem7	Sem8		
BS	8	7	4						19	18
ES	8	6							14	16
HS	4				2	4	3		13	10
PC		8	14	18	12	9	8		69	71
PE					3	3	6	6	18	18
OE					2	2	2		06	06
PW				2			2	14	18	18
SDC			1	1	1	1			04	04
VAC(MC)			1		1	1			03	03
Total	20	21	20	21	21	20	21	20	164	164

Agenda Item 2: Approval of Changes in Course Titles

1. Shuffling of subjects and labs are done as per the load distribution within the course structure, without changing the syllabus & credits.
2. In I-I, *Applied Chemistry* (I-II) is restructured/renamed as *Engineering Chemistry* (I-I)
3. In I-II, *Advanced Engineering Physics* (I-I) is restructured/renamed as *Engineering Physics* (I-II).
4. In II-II, *Structural Mechanics* subject name is changed as *Advanced Strength of Materials*.
5. In II-II, *Theory of Structures* is renamed as *Structural Analysis-I*.
6. In PE-I, *Indeterminate Structural Analysis* is renamed as *Structural Analysis-II*.
7. In PE-V, *Construction Planning & Management* is renamed as *Construction Planning & Project Management*.
8. In PE-VI, *Structural Health Monitoring & Retrofitting of Structures* is renamed and restructured as *Rehabilitation & Retrofitting of Structures*.

Members Present:

Dr. S. Srinivasulu	JNTUH Nominee	
Dr. CSV Subrahmanya Kumar	BOS Member (External)	
Dr. C. Hari Prasad	BOS Member (External)	
M. Malla Reddy	BOS Member (Industry)	
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Agenda Item 3: Inclusion of New Courses

1. The members observed that the *Python Programming Theory* is not required in I-II and replaced with the subject *Engineering Geology and Building Material* and also changed *Python Programming Lab* with 2 credits from 1 credit.
2. *Geology and Building Material Testing lab* is introduced in I-II in-line with the theory subject.
3. *Fuzzy logic and ANN Applications in Civil Engineering* is removed from PE-I and replaced with *Air Pollution and Control Measures*.
4. In IV-I, *Prestressed Concrete Structures* is introduced and interchanged as PC by considering *Foundation Engineering* as PE-II.
5. In PE-III, *Air Pollution Control* is replaced by introducing *Earth Retaining Structures*.
6. In PE-VI, *Disaster Management* is introduced by replacing *EIA & Life Cycle Analysis*.
7. In Open Elective I, II, III, additional subjects *Basic Civil Engineering*, *Remote Sensing & GIS*, *Geo-informatics* are introduced respectively.

Agenda Item 4: Approval of Value Added, Skill Development, and Mandatory Courses

As per the AICTE / UGC guidelines for the holistic development of students, the following Value-Added, Skill Development, and Mandatory Courses were discussed and approved by the BoS Members:

1. Value Added Courses (VAC)

Listed under the VAC category in the structure, these provide social, ethical, and interdisciplinary learning.

a)	Induction Program	(I Sem)
b)	Indian Knowledge System	(VI Sem)
c)	Gender Sensitization/Human Values & Professional Ethics	(V Sem)
d)	Environmental Science	(III Sem)

Members Present:

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Dr. CSV Subrahmanya Kumar	BOS Member (External)	
Dr. C. Hari Prasad	BOS Member (External)	
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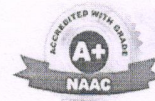
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2. Skill Development (SD) Courses

a)	Design Thinking and Tinkering Lab	(III Sem)
b)	Digital Surveying Lab	(IV Sem)
c)	Building Information Modelling Lab	(V Sem)
d)	Project Management Software Lab	(VI Sem)

Agenda Item 5: Approval of Professional Electives

The Professional Electives were provisionally approved. However, the members decided that these courses would be discussed in detail in the subsequent meetings.

Professional Elective – I

PE	Structural Analysis-II
PE	Air Pollution and Control Measures
PE	Ground Water Hydrology
PE	Green Building Technologies
PE	Advanced Construction Technology

Professional Elective – II

PE	Foundation Engineering
PE	AI Applications in Civil Engineering
PE	Hydraulic Structures
PE	Industrial Waste Water Treatment
PE	Railways, Airports & Waterways

Members Present:

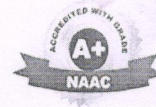
Dr. S. Srinivasulu	JNTUH Nominee	1.11
Dr. CSV Subrahmanya Kumar	BOS Member (External)	CSV
Dr. C. Hari Prasad	BOS Member (External)	hari prasad
M. Malla Reddy	BOS Member (Industry)	M. Malla Reddy
Dr. KVR Satya Sai	HoD / Civil Engineering	Dr. KVR Satya Sai
V. Sai Vikas	BOS Chairman	V. Sai Vikas
Md. Burhan Ahmed	BOS Member	Md. Burhan Ahmed



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Professional Elective – III

PE	Remote Sensing & GIS
PE	Machine Learning and Data Analytics in Civil Engineering
PE	Earth Retaining Structures
PE	Smart Cities
PE	Pre-Engineered Buildings

Professional Elective – IV

PE	Ground Improvement Techniques
PE	IoT Applications in Civil Engineering
PE	Intelligent Transportation Systems
PE	Elements of Earth Quake Engineering
PE	Urban Hydrology & Hydraulics

Professional Elective – V

PE	Construction Planning & Project Management
PE	Computer Vision and Digital Image Processing in Civil Engineering
PE	Pavement Analysis & Design
PE	Solid & Hazardous Waste Management
PE	Finite Element Methods

Professional Elective – VI

PE	Rehabilitation & Retrofitting of Structures
PE	Quantum Computing Applications in Civil Engineering
PE	Sustainable Engineering Technologies
PE	Climate Change Adaptation & Mitigation
PE	Disaster Management

Members Present:

Dr. S. Srinivasulu	JNTUH Nominee	J. S. S.
Dr. CSV Subrahmanya Kumar	BOS Member (External)	CSV
Dr. C. Hari Prasad	BOS Member (External)	Hari Prasad
M. Malla Reddy	BOS Member (Industry)	M. Reddy
Dr. KVR Satya Sai	HoD / Civil Engineering	S. Sai
V. Sai Vikas	BOS Chairman	V. Sai Vikas
Md. Burhan Ahmed	BOS Member	Burhan Ahmed



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Agenda Item 6: Approval of Open Electives

The Open Electives were provisionally approved. However, the members decided that these courses would be discussed in detail in the subsequent meetings.

Open Elective – I

OE	Disaster Management
OE	Low Cost Materials and Green Buildings
OE	Basic Civil Engineering

Open Elective – II

OE	Building Science and Technology
OE	Environmental Impact Assessment
OE	Remote Sensing & GIS

Open Elective – III

OE	Road Safety Engineering
OE	Building Services Engineering
OE	Geo Informatics

Agenda Item 7: Identification of Employability Oriented Courses

These courses are designed to:

- Bridge the gap between academic learning and industry expectations.
- Equip students with practical, job-relevant skills.
- Improve placement outcomes and career progression.
- Foster inter-disciplinary and emerging technology exposure.

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Category	Key Courses	Justification
Civil Core & Labs	Surveying & Geomatics, Design of Reinforced Concrete Structures, Concrete Technology and Concrete Technology Lab, Computer Aided Building Drafting Lab, Computer Aided Design Lab, Geotechnical Engineering, Geotechnical Engineering Lab, Transportation Engineering, Highway Materials Lab, Estimation, Quantity Surveying & Valuation.	These subjects provide a comprehensive foundation for designing, constructing and maintaining the physical infrastructure that shapes society such as buildings, roads, dams, bridges and water systems.
Skill Development (SD)	Digital Surveying Lab, Building Information Modelling lab, Civil Engineering Software Lab, Project Management Software Lab, Quantity Surveying Lab, GIS Lab.	Enhances practical, industry-ready skills leading to better career prospects, higher salaries and opportunities for leadership and infrastructure development
Project & Internship (PW)	Field based Research Project, Industry/Internship, Project Work.	Real world project experience develops problem solving, team work, and implementation skills highly valued by industry.
Communication & Soft Skills	English Language & Communication Skills Lab, Advanced English Communication Skills Lab	Improves employability by enabling clear communication, report writing and collaboration.

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Elective Set	Sample Courses	Justification
PE-I & PE-II (Semester V & VI)	Structural Analysis, Green Building Technology, Advanced Construction Technology, AI Applications in Civil Engineering.	Professional Electives in Civil Engineering allow students to deepen their expertise in specific areas, tailor their education to personal interests, and prepare for advanced careers or research aligned with their goals.
PE-III & PE-IV (Semester VII)	Remote Sensing & GIS, Machine Learning and Data Analytics in Civil Engineering, Smart Cities, Pre-Engineered Buildings, IoT Applications in Civil Engineering, Intelligent Transportation Systems.	
PE-V PE-VI (Semester VIII)	Construction Planning & Project Management, Finite Element Methods, Rehabilitation & Retrofitting of Structures, Quantum Computing Applications in Civil Engineering.	

Agenda Item 8: Approval of New Labs

Sem/Year	Class	Lab Name	Software Required (Any one of the following for each lab)
II-I	BS	Computational Mathematics Lab	Math Lab, R Programming, Python Programming
II-II	SD	Digital Surveying Lab	Total Station, GPS
III-I	SD	Building Information Modelling Lab	Autodesk: Revit, Civil3D, Navisworks, Construction Cloud
III-II	PC	Civil Engineering Software Lab	Bentley: Staad Pro, Staad Foundation, CSI: ETabs, SAP2000
III-II	SD	Project Management Software Lab	Oracle Corporation: Primavera, Microsoft Projects
IV-I	PC	Quantity Surveying Lab	RIB Software: CostX, Microsoft Office: Excel
IV-I	PC	Computational Lab	IoT Lab

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