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Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2577715, 2576129

To

The Addl. Dean/Dean -Academics

K L Deemed University

Vaddeswaram

Dear Sir,

Sub: Minutes of the KLEF/CE/XXXX BOS meeting-Civil Engineering-held on 11/08/2025 in online mode using the below link from 11:00 pm to 1:30 pm Reg.,

Platform: Webex

Meeting Link:

https://kluniversity.webex.com/kluniversity/j.php?MTID=mbdb3fd8c0003f4d4deb86af4c8fd4b06

We, the Department of Civil Engineering, organized the Board of Studies (BOS) meeting for the Academic Year 2025–26, during which it was recommended to review and revise the U.G. (B. Tech – Civil Engineering) program structure and syllabus with industry integration for students admitted in 2025–26, to modify the existing program structure for the Academic Year 2024–25 to incorporate industry integration, and to submit these recommendations to the Academic Council of KLU for approval; to review and finalize the P.G. (M. Tech – Structural Engineering, M. Tech – Construction Technology, and M. Tech – Geo-Informatics) program structure and syllabus with industry integration for the Academic Year 2025–26 admitted students and recommend the same to the Academic Council for approval; and to consider and approve the Pre-Ph.D. courses along with their respective course codes for the Academic Year 2025–26 admitted batch.

In this context, we would like to submit the BOS meeting minutes and an action taken report from our end.

Thanking You,

Yours sincerely

J.D.C.Kumar 14/8/2025

Dr. J. D. Chaitanya Kumar

BOS Chairman – CE

Head
Department of Civil Engineering
Koneru Lakshmaiah Education Foundation
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VADDESWARAM, Guntur Dist.

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DEPARTMENT OF CIVIL ENGINEERING

MINUTES OF XXXX BOARD OF STUDIES MEETING

The Department Board of Studies meeting was conducted on 11/08/2025 in online mode from 11:00 am to 1:30 pm Dr.J.D.Chaitanya Kumar, HoD-CE, as a chair.

The following members were present for XXXIX BoS meeting

1. Dr.J.D.Chaitanya Kumar, Assistant Professor, HoD-CE, Chairman
2. Dr. M. Kameshwara Rao, Associate Dean, Academics -Member
3. Dr. E. Arunakanthi, Professor- External Academics Expert
4. Er. P. Santharao, External member- Vigilance officer - External Industry Expert
5. Er. D. Naveen Kumar, External Member-Asst. Engineer, Building - External Alumni Member
6. Dr.CH. Haumantha Rao, Professor & Director Construction- Internal Member
7. Dr. B. Kameshwara Rao, Professor- Internal Member
8. Dr.A. Aravindan,Professor- Internal Member
9. Dr. A. V. Rao, Professor- Internal Member
10. Dr. Sanjeet Kumar, Associate Professor - Internal Member
11. Dr.H.Himath Kumar, Asst.Professor-Member
12. Dr. Lingeshwaran. N, Asst.Professor-Member
13. Mr.K. Shyam Chamberlin, Asst.Professor-Member
14. Mr.K. Hemantha Raja, Asst.Professor- Member
15. Mr.B. G. Rahul - Asst.Professor- Member
16. Mrs V Sreelakshmi - Asst.Professor- Member
17. K Chandu prakash - M.Tech(CTM) 2nd year, Student member
18. Syed Sofiya - M.Tech(SE)2nd year, Student member
19. K.Abhi, B.Tech 4th year, Student member
20. Neha Chowdary, 4th year, Student member
21. Dhilleswarao, B.Tech 3rd year, Student member

Member's Absent

1. Barry, B. Tech 3rd year, Student member

J.D.C.Kumar
14/8/25

Head
Department of Civil Engineering
Koneru Lakshmaiah Education Foundation
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VADDESWARAM, Guntur Dist

Dr. J. D. Chaitanya Kumar of BoS, the meeting commenced with remarks from the internal members, who welcomed everyone and thanked them for their participation. The chairman then presented the agenda items for discussion at the Board of Studies meeting.

The following items on the agenda were placed for consideration before the Board of Studies in Civil Engineering at its present meeting.

1. To approve the points discussed in DAC meeting
2. U.G. (B. Tech – Civil Engineering): Review and revise the program structure and syllabus with industry integration for students admitted in the Academic Year 2025–2026. Modify the existing program structure for the Academic Year 2024–2025 to incorporate industry integration and submit recommendations to the Academic Council of KLU for approval.
3. P.G. (M. Tech - Structural Engineering, M. Tech – Construction Technology and M. Tech Geo Informatics): Program structure and Syllabus with industry integration for the AY: 2025-26 admitted students and make recommendations to the Academic Council of KLU for approval of the same.
4. To consider and approve the Pre-Ph.D courses along with their course codes for the Ph.D. program admitted in the Academic Year 2025–2026.
5. Any other points with permission of the Chair.

J.D.C.Kumar 14/8/25

Head
Department of Civil Engineering
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AGENDA and RESOLUTIONS

AGENDA ITEM-I

To consider and approve the resolutions made by XXXX DAC conducted on 12th July2025	Approved and recommended to Academic Council

Discussion: The Department Chairman presented the XXXX DAC meeting minutes to all Board of Studies (BOS) members, and the minutes were thoroughly discussed and approved by all BOS members.

Resolution: The points discussed in the DAC meeting were approved by BoS members and recommended to Academic council. DAC minutes and proofs are mentioned in **Annexure-I.**

AGENDA ITEM-II

To consider and approve the review and revision of the program structure and syllabus with industry integration for students admitted in the Academic Year 2025–26, and to modify the existing program structure for the Academic Year 2024–25.	Approved and recommended to Academic Council

Discussion: The Board discussed the need for aligning the curriculum with current industry requirements to enhance employability and practical exposure for students. The members reviewed proposed changes, including updated course content, new industry-linked modules, and modifications in lab components. The Board also emphasized the importance of incorporating feedback from industry experts, alumni, and faculty in the curriculum revision process in the department of civil engineering.

Resolution: The Board approved the revised program structure and syllabus with industry integration for students admitted in the Academic Year 2025–26 and endorsed the modification of the existing program structure for the Academic Year 2024–25. The revised structure will be submitted to the Academic Council of KLU for final approval. The revised program course structures for A.Y-2025-2026 and 2024-2025 are provided in Annexure-II.

AGENDA ITEM-III

To consider and approve the program structure and syllabus with industry integration for P.G. programs — M. Tech in Structural Engineering, M. Tech in Construction Technology, and M. Tech in Geo-Informatics — for students admitted in the Academic Year 2025–26.	Approved and recommended to Academic Council

J.D.C. Kumar 14/8/25
Head
Department of Civil Engineering
Koneru Lakshmaiah Education Foundation
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VADDESWARAM, Guntur Dt.

Discussion: The Board reviewed the proposed program structures and syllabi for the above-mentioned P.G. programs, emphasizing the integration of industry-relevant content to meet current professional standards and emerging technological trends. The members discussed the inclusion of advanced electives, case studies, industry-led workshops, and project-based learning to enhance practical exposure. Feedback from industry partners, alumni, and faculty was considered to ensure the curriculum aligns with both academic rigor and market needs.

Resolution: The Board approved the proposed program structure and syllabus with industry integration for M. Tech in Structural Engineering, M. Tech in Construction Technology, and M. Tech in Geo-Informatics for students admitted in the Academic Year 2025–26, and resolved to forward the same to the Academic Council of KLU for final approval. The revised program course structures for A.Y-2025-2026 and 2024-2025 are provided in Annexure-III.

AGENDA ITEM-IV

To consider and approve the Pre-Ph.D. courses along with their course codes for the Ph.D. program admitted in the Academic Year 2025–2026	Approved and recommended to Academic Council

Discussion: The Board examined the list of proposed Pre-Ph D. courses and their respective course codes for the 2025–26 admitted batch. It was discussed that the courses are designed to strengthen research methodology, advanced subject knowledge, and interdisciplinary understanding, ensuring alignment with the latest academic and research requirements. The members reviewed course content, credit structure, and relevance to various research domains. The Board agreed on the need to maintain academic rigor while providing flexibility for diverse research interests.

Resolution: The Board approved the proposed Pre-Ph.D. courses along with their respective course codes for the Ph.D. program admitted in the Academic Year 2025–26 and resolved to forward the same to the Academic Council of KLU for final approval. The revised Pre-Ph.D. courses and course codes for Paper–2 and Paper–3 for the Academic Year 2025–26 are provided in Annexure–IV.

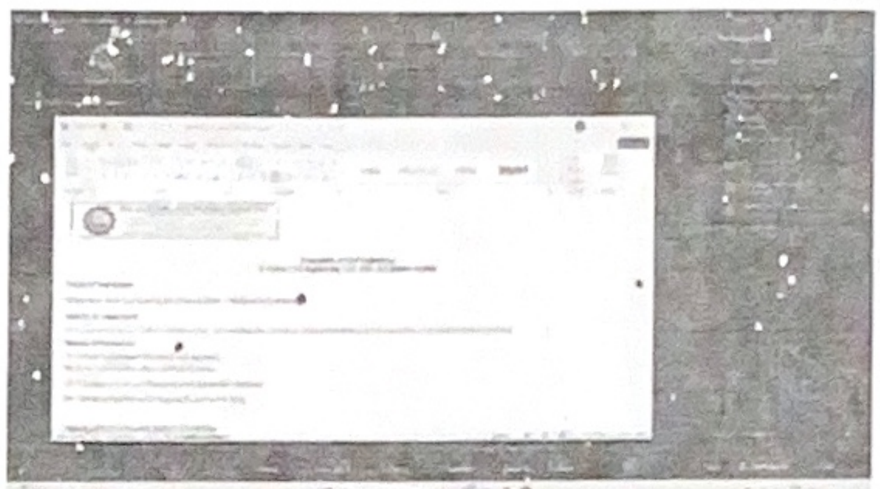
AGENDA ITEM-V

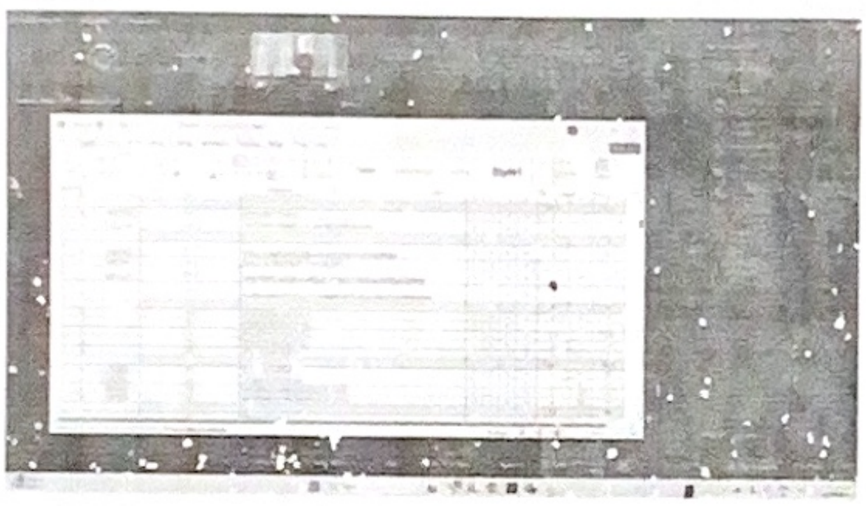
Any other points with permission of the Chair.

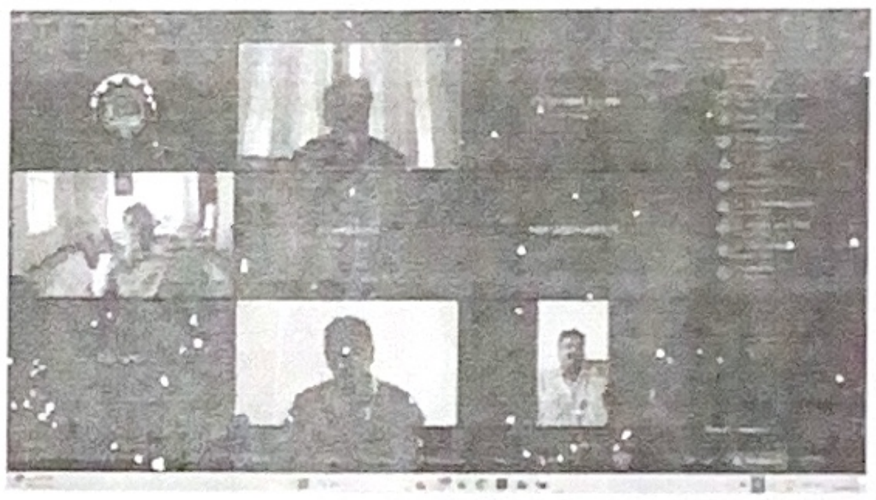
J.D.C/Ammaji
14/8/25
Head
Department of Civil Engineering
Koneru Lakshmaiah Education Foundation
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VADDESWARAM, Guntur Dist.

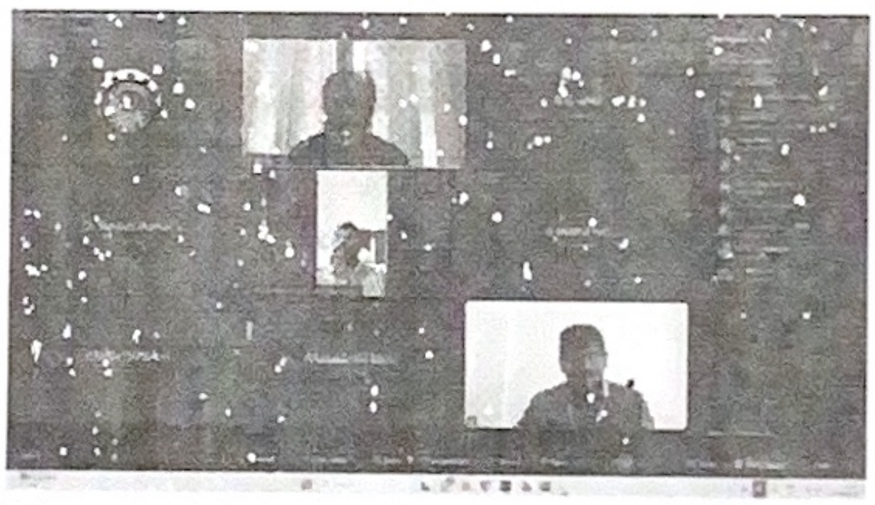
Photos











J.D.C. Kumar
14/8/25
Head
Department of Civil Engineering
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The following members attended the XXXX Board of studies (BOS) meeting held on 11/08/2025 in offline mode from 11:00 am to 1:30 pm

S.No	FULL NAME	DESIGNATION	ORGANIZATION	POSITION IN THE MEETING	SIGNATURE
1	Dr.J.D.Chaitanya Kumar	Professor & HoD	K L E F-Civil Engg.	Chairman	J.D.C.Kumar
2	Dr. M. Kameshwara Rao	Associate Dean, Academics	K L E F-Civil Engg.	Internal member	
3	Dr. E. Arunakanthi	External member-Professor	JNTU-A	External member-Academic peer	present
4	Er. P. Santharao	External member-Vigilance officer	Vigilance officer-Panchayati raj dept.	External member-Industry	present
5	Er. D. Naveen Kumar	External member-Asst. Engineer, Building	External member-Asst Engineer, Building	External member-Alumni	present
6	Dr.CH. Haumantha Rao.	Professor & Director Construction	K L E F-Civil Engg.	Internal Member	
7	Dr. B. Kameshwara Rao	Professor	K L E F-Civil Engg.	Internal Member	BK
8	Dr, A. Aravindan	Professor	K L E F-Civil Engg.	Internal Member	
9	Dr. A. V. Rao	Professor	K L E F-Civil Engg.	Internal Member	
10	Dr. Sanjeet Kumar	Associate Professor	K L E F-Civil Engg.	Internal Member	
11	Dr. Lingeshwaran. N	Assistant Professor	K L E F-Civil Engg.	Internal Member	
12	Dr.Y.Himath Kumar	Assistant Professor	K L E F-Civil Engg.	Internal Member	
13	Mr.K. Shyam Chamberlin	Assistant Professor	K L E F-Civil Engg.	Professor In-charge	
14	Mr.K. Hemantha Raja	Assistant Professor	K L E F-Civil Engg.	Alumni in-charge	
15	Mr.B. G. Rahul	Assistant Professor	K L E F-Civil Engg.	Placement In-charge	
16	Mrs V Sreelakshmi	Assistant Professor	K L E F-Civil Engg.	ERP in charge& DAC Member	
17	K Chandu prakash	2401030002, M.Tech(CTM)2nd year	K L E F-PG, Student	Student member	

J.D.C.Kumar
14/8/24
Head
Department of Civil Engineering
Koneru Lakshmaiah Education Foundation
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VADDESWARAM, Guntur Dist.

18	Syed Sofiya	2401020001 ,M.Tech(SE)2nd year	K L E F-PG Student	Student member	Sofiya
19	K.Abhi	2200029015, B.Tech 4th year	K L E F-UG Student	Student member	Abhi
20	Neha Chowdary	2200020013, B.Tech 4th year	K L E F-UG Student	Student member	Neha.
21	Dhilleswarao	2300020002, B.Tech 3rd year	K L E F-UG Student	Student member	Dhilleswarao
22	Barry	2300020013, B.Tech 3rd year ,	K L E F-UG Student	Student member	ABSENT

J.D Ramya
14/8/25

Head
Department of Civil Engineering
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Annexure-I: DAC meeting minutes

DATE: 12/07/2025

DEPARTMENT OF CIVIL ENGINEERING

MINUTES OF XXXX DEPARTMENT ACADEMIC COMMITTEE MEETING

The Department DAC meeting was conducted on 12-07-2025 in M-211 from 2:30 PM to 5:00 PM chaired by Dr. J .D. Chaitanya Kumar, HoD-CE.

The following members were present for XXXX DAC meeting

1. Dr.J.D.Chaitanya kumar, Asst.Professor, HoD-CE, Chairman
2. Dr.A.V.S.Pradad,Pro.V.C,Administration- Member
3. Dr. CH. Hanumantha Rao,Director,Professor-Member
4. Dr. B. Kameswara Rao, Professor-Member
5. Dr. A. Aravindan, Professor-Member
6. Dr. A. V. Rao, Professor-Member
7. Dr. Sanjeet Kumar, Assoc.Professor-Member
8. Dr. N. Lingeshwaran, Asst.Professor-Member
9. Dr.Y.Himath Kumar, Asst. Professor-Member
10. Mr. K. Shyam Chamberlin, Asst.Professor-Member
11. Mr. K. Hemantha Raja, Asst. Professor-Member
12. Mr. B. G.Rahul, Asst. Professor-Member
13. Mrs.V.Sree Lakshmi, Asst. Professor-Member

Member's Absent-NIL

Dr. J.D. Chaitanya Kumar welcomed all attendees and opened the discussion on the Department academic committee. The chairman put forward the agenda items before the members of Department academic committee.

The following items of the agenda were placed for consideration before the Department Academic committee in Civil Engineering at its present meeting.

J.D.C.Kumar 14/8/25

Head
Department of Civil Engineering
Koneru Lakshmaiah Education Foundation
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AGENDA and RESOLUTIONS

AGENDA ITEM-I

To approve the feedback from stakeholders regarding the 2025-26 batch of admitted students	Approved and recommended to BoS

Resolution: Feedback from stakeholders regarding the upcoming 2025-26 batch has been approved by DAC members and recommended to the BoS. Action Taken Report has been attached as **Annexure-I**.

AGENDA ITEM-II

To consider and approve the curriculum for the 2025-2026 admitted batch of B. Tech & M. Tech and the minor changes proposed in the curriculum of the 2024-2025 admitted batch of B. Tech as per the suggestions and feedback received from stakeholders discussed in DAC.	Approved and recommended to BoS

Resolution: The curriculum for 2025-2026 B. Tech & M. Tech and the minor changes proposed in the curriculum of 2024-2025 admitted batches have been approved by DAC members and recommended to BoS. Course structures of 2025-2026 and 2024-2025, batches have been furnished in **Annexure: II**.

AGENDA ITEM-III

To consider and approve the Introducing new courses and revisions proposed by the course coordinators in syllabus / Course Outcomes /experiments/teaching pedagogies for the courses to be offered in the 2025-2026 academic year.	Approved and recommended to BoS

Resolution: The New courses and revisions proposed by the stakeholders and course coordinators in syllabus/Course Outcomes /experiments / teaching pedagogies for the courses to be offered in the 2025-2026 academic year have been approved by DAC members and recommended to BoS. Syllabi of 2025-2026 batches have been furnished in (Annexure: III).

AGENDA ITEM-IV

To consider and approve the list of courses offered for Y24, Y23, and Y22 batches for the academic year 2025-26.	Approved and recommended to BoS

Resolution: The Committee considered and approved the list of courses offered for Y24, Y23, and Y22 batches for the Academic Year 2025–26 as presented.

JDC. Kumar 14/8/25
Head
Department of Civil Engineering
Koneru Lakshmaiah Education Foundation
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AGENDA ITEM-V

To consider and proposal the admissions to B.Tech, M.Tech, and Ph.D. programs in the Civil Engineering department for A.Y. 2025-2026.	Approved and recommended to Board of Studies

Resolution:

The Committee considered and approved the proposal for admissions to B.Tech, M.Tech, and Ph.D. programs in the Civil Engineering Department for the Academic Year 2025–26.

Points on Increase in Admissions – Civil Engineering Department (A.Y. 2025–26)

- **B. Tech (Civil Engineering)**
  - Demand driven by rising enrollment applications and industry placement opportunities.
  - Curriculum updated with industry integration to attract high-quality candidates.
- **M.Tech (Civil Engineering)**
  - Includes specializations in Structural Engineering, Construction Technology & Management, Geotechnical Engineering, etc.
  - Emphasis on research-oriented projects and collaborations with industry.
- **Ph.D. (Civil Engineering)**
  - Focus areas: Sustainable Infrastructure, Advanced Materials, Non-Destructive Testing, and AI in Civil Engineering.
  - Encourages interdisciplinary research and industry-sponsored projects.

Justification for Increase

1.Increased need for skilled professionals in core civil engineering fields.

2. Recognition of department's strong placement records, publications, and patents.

3. Alignment with government missions like Smart Cities Mission, Bharatmala, and National Infrastructure Pipeline.

Resource Readiness

Additional faculty recruited with specialized expertise.

Upgraded laboratories including Structural Engineering Lab, Geotechnical Lab, and Concrete Technology Lab. Expansion of classroom facilities with smart technology.

J.D.C.Kumar 14/8/25

Head
Department of Civil Engineering
Koneru Lakshmaiah Education Foundation
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VADDESWARAM, Guntur Dist.

Expected Outcomes

Higher enrollment of top-ranking students.

Increased research output and industry consultancy projects.

Strengthened reputation and contribution to national infrastructure growth.

AGENDA ITEM-VI

To consider and Proposal for the increasing consultancy-related works in the department.	Approved and recommended to Board of Studies

Resolution: The Committee considered and approved the proposal for increasing consultancy-related works in the Civil Engineering Department, with a focus on enhancing industry collaboration, faculty engagement, and revenue generation for the Academic Year 2025–26.

Points on Increasing Consultancy-Related Works – Civil Engineering Department

1.Objective

To enhance the department's engagement with industry, government bodies, and private organizations through consultancy projects.

To generate additional revenue and improve the department's applied research profile.

2.Proposed Strategies

- Strengthening Industry Linkages: Establish MoUs with construction firms, infrastructure companies, and public works departments.
- Faculty Involvement: Encourage faculty members to register as certified consultants with government and professional bodies.
- Promotion of Services: Develop a consultancy brochure highlighting expertise in areas like structural design, geotechnical analysis, material testing, and environmental assessment.
- Dedicated Cell: Create a Department Consultancy & Testing Cell to coordinate proposals, client interactions and project execution.
- Competitive Pricing: Offer competitive consultancy rates with value-added services to attract more clients.
- Marketing & Outreach: Participate in industry exhibitions, conferences, and technical fairs to showcase capabilities.

J.D.C.Kumar 14/8/25

Head 14/8/25
Department of Civil Engineering
Koneru Lakshmaiah Education Foundation
(Deemed to be University)
VADDESWARAM, Guntur Dt.

3.Areas of Consultancy

- Structural Engineering: Design verification, structural health monitoring, and retrofitting solutions.
- Geotechnical Engineering: Soil investigation, foundation design, and slope stability analysis.
- Material Testing: Concrete, steel, asphalt, and non-destructive testing of structures.
- Environmental Engineering: Wastewater treatment, environmental impact assessments, and pollution control studies.
- Transportation Engineering: Pavement design, traffic analysis, and road safety audits.

4.Resource Enhancement

- Upgrade laboratory equipment to meet current industry standards.
- Train faculty and technical staff in advanced testing and analysis tools.
- Allocate budget for new software licenses for design, simulation, and data analysis.

5.Expected Outcomes

- Increase in annual consultancy revenue.
- Enhanced reputation of the department in professional and industry circles.
- Increased opportunities for student internships and industry-based projects.
- Stronger alumni network involvement in providing consultancy leads.

AGENDA ITEM-VII

To consider the approval of proposed Value-added courses for A.Y-2025-2026 and 2024-2025 admitted batch.	Approved and recommended to Board of Studies

Resolution: The following value-added courses for A.Y-2024-2025 and 2025-2026 admitted batches have been introduced, approved and recommended by DAC to BoS.

- AUTOCAD
- CYPECAD
- REVIT AND ARCHITECT

AGENDA ITEM-VIII

Any other points with the permission of the DAC chairman.

J.D.C.Kumar 14/8/25

Head
Department of Civil Engineering
Koneru Lakshmaiah Education Foundation
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VADDESWARAM, Guntur Dist.

ANNEXURE-I

Stakeholder Category	Stakeholder Feedback / Recommendation	Action Taken in DAC	Name of the Programme	Academic Year	Department	Date of DAC
Faculty	Dr. A. Aravindan, Professor, Recommended that change LTPS of MTech Progrm-CTM,Construction Planning & scheduling control from 2-0-2-4 to 3-0-2-6	Recommended and approval to BOS	B.Tech	2025-26	CIVIL	12/7/2025
Alumni	Prabhu teja recommended that based on industry purpose add practical related subjects	Recommended and approval to BOS	B.Tech	2025-26	CIVIL	12/7/2025
Faculty	Mr.K.Hemantha raja, Assistant Professor, Recommend Require restart M. Tech Geotechnical engineering program.	Recommended and approval to BOS	B.Tech	2025-26	CIVIL	12/7/2025
Faculty	Dr. J.D Chaitanya Kumar, Emp Id:3900, Recommended that Considering the increasing importance of sustainable development, climate resilience, and environmental protection in modern infrastructure projects, it is strongly recommended to include more Environmental Engineering–related subjects in the Civil Engineering curriculum.	Recommended and approval to BOS	B.Tech	2025-26	CIVIL	12/7/2025
Faculty	Mr.K. Shyam chamberlin ,Emp. Id:2197, Recommended and suggested that considering the increasing importance of sustainable development, climate resilience, and environmental	Recommended and approval to BOS	B.Tech	2025-26	CIVIL	12/7/2025

J.D.C.Kumar
Head
4/8/25
Department of Civil Engineering
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	protection in modern infrastructure projects.					
Industry Personnel	P. Santha Rao, vigilance officer in Panchyatraj, suggested to introducing Latest techniques and technologies with more practical involvement to students	Recommended and approval to BOS	B.Tech	2025-26	CIVIL	12/7/2025
Faculty	Dr. Lingeswaran. N, suggested to add drone technology in surveying course or if any course if requirement	Recommended and approval to BOS	B.Tech	2025-26	CIVIL	12/7/2025
Parent	T. swamulu,F/Manoj Kumar recommended to go for industry-based subjects.	Recommended and approval to BOS	B.Tech	2025-26	CIVIL	12/7/2025
Parent	P.Siva Subba Rao,F/O. Sarm Amar Surya focus on industrial oriented courses demands in future.	Recommended and approval to BOS	B.Tech	2025-26	CIVIL	12/7/2025
Student	B. Venkateswara reddy, Reg,No-2200029013, Suggested, introducing new advanced course relating to the civil engineering it helps to society needs in the future	Recommended and approval to BOS	B.Tech	2025-26	CIVIL	12/7/2025
Student	Md.Sofiya, Reg, No- 2401020001, Suggested, introducing new skill-based courses related to civil engineering which popular in future.	Recommended and approval to BOS	M.Tech	2025-26	CIVIL	12/7/2025

J.D.C/Summary 14/8/25

Head
Department of Civil Engineering
Koneru Lakshmaiah Education Foundation
(Deemed to be University)
VADDESWARAM, Guntur Dist.

ANNEXURE-II
Y-25 CATEGORYWISE STRUCTURE

Sl.No.	Course code	Type	Course Title	L	T	P	S	CR	CH	CE
1	25UC0017	AUC	INDIAN ANCIENT KNOWLEDGE SYSTEMS: VEDIC MATHEMATICS	2	0	0	0	0	2	0
2	25UC0032	AUC	INSIGHTS TO SUSTAINABLE DEVELOPMENT GOALS	2	0	0	0	0	2	0
3	25UC0008	AUC	INDIAN CONSTITUTION	2	0	0	0	0	2	0
4	25UC0009	AUC	ECOLOGY AND ENVIRONMENT	2	0	0	0	0	2	0
								0		**0**
1	25UC0033	BRIDGE	FUNDAMENTALS OF BIOLOGY	3	0	0	0	0	3	0
2	25UC0018	BRIDGE	FUNDAMENTALS OF MATHEMATICS	3	0	0	0	0	3	0
								0		**0**
1	25MT1001	BSC	LINEAR ALGEBRA AND CALCULUS FOR ENGINEERS	2	2	0	0	4	4	4
2	25MT2003	BSC	MATHEMATICAL MODELLING & NUMERICAL METHODS	2	2	0	0	4	4	4
3	25MT3003	BSC	PROBABILITY AND STATISTICS	2	2	0	0	4	4	4
4	25CE1201	BSC	SCIENCE ELECTIVE -1 (ENGINEERING GEOLOGY))	3	0	2	0	4	5	4
5	25CE2212	BSC	SCIENCE ELECTIVE -2 (ENVIRONMENTAL ENGINEERING)	3	0	2	0	4	5	4
								20		20

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1	25ME1001	ESC	ENGINEERING MECHANICS	3	0	0	0	3	3	3
2	25ME1002	ESC	VISUALIZATION & MODELLING FOR ENGINEERING DESIGN	0	0	4	0	2	4	2
3	25EC1101	ESC	BASIC ELECTRICAL AND ELECTRONIC CIRCUITS	3	0	2	0	4	5	4
4	25SC1101	ESC	PROBLEM SOLVING THROUGH C	3	0	2	4	5	9	5
5	25CE2102	ESC	FLUID MECHANICS AND HYDRAULICS	3	0	2	0	4	5	4
6	25CE3214	ESC	CONSTRUCTION ENGINEERING & MANAGEMENT	3	1	0	0	4	4	4
7	25SC1203	ESC	DATA STRUCTURES	3	0	2	4	5	9	5
8	25MT1103	ESC	DESIGN TOOLS WORKSHOP	0	0	4	0	2	4	2
9	25SC2007	ESC	PYTHON PROGEAMMING	2	0	2	0	3	4	3
								32		32
1	25UC1203	HAS	DESIGN THINKING FOR INNOVATION	0	0	4	0	2	4	2
2	25UC1102	HAS	LANGUAGE SKILLS FOR ENGINEERS	0	0	4	0	2	4	2
3	25UC1204	HAS	COMMUNICATION SKILLS FOR ENGINEERS	0	0	4	0	2	4	2
4	25MBXXXX	HAS	MANAGEMENT ELECTIVE	3	0	0	0	3	3	3
5	25FLXXXX	HAS	FOREIGN LANGUAGE	3	0	0	0	3	3	3
6	25UC0026	HAS	HUMAN VALUES, GENDER EQUALITY AND PROFESSIONAL ETHICS	2	0	0	0	2	2	2

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7	25UC0021	SIL	SOCIAL IMMERSIVE LEARNING-I	0	0	2	0	1	2	1
8	25UC0022	SIL	SOCIAL IMMERSIVE LEARNING - 2	0	0	2	0	1	2	1
								16		16
1	25CE2103R	PCC	SURVEYING	3	0	2	2	4.5	5	4.5
2	25CE2105	PCC	SOLID MECHANICS	3	0	2	0	4	5	4
3	25CE2104	PCC	BUILDING MATERIALS, PLANNING & DRAWING	3	0	2	0	4	5	4
4	25CE2206	PCC	STRUCTURAL ANALYSIS	3	1	0	0	4	4	4
5	25CE2207R	PCC	CONCRETE TECHNOLOGY	3	0	2	0	4	5	5
6	25CE2209	PCC	TRANSPORTATION ENGINEERING	3	0	2	2	4.5	7	4
7	25CE2208R	PCC	GEOTECHNICAL ENGINEERING	3	0	2	2	4.5	7	4
8	25CE3110R	PCC	DESIGN OF REINFORED CONCRETE STRUCUTRES	3	0	2	0	4	5	4
9	25CE3111	PCC	WATER RESOURCE ENGINEERING	3	1	0	0	4	4	4
10	25CE3213R	PCC	DESIGN OF STEEL STRUCTURES	3	1	0	0	4	4	4
								41.5		41.5
1	25CE2233F	FCC	FLEXI CORE-1(A&RCE)	2	1	0	0	3	3	3
2	25CE2234F	FCC	FLEXI CORE-2(QUANTITY SURVEYING & ESTIMATION)	2	0	2	0	3	4	3
								6		**6**

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1	25SDCE01	SDC-1	VISUALIZATION & MODELLING FOR STRUCTURAL DESIGN	1	0	0	4	2	5	2
2	25SDCE02	SDC-2	BUILDING INFORMATION MODELLING	1	0	0	4	2	5	2
3	25SDCE03	SDC-3	ANALYSIS & DESIGN OF MULTI-STORIED STRUCTURES USING ETABS	1	0	0	4	2	5	2
4		SDC-4	PLANNING AND SCHEDULING OF RESIDENTIAL BUILDING USING PRIMAVERA	1	0	0	4	2	5	2
								8		**8**
1		PEC	PROFESSIONAL ELECTIVE-1	3	0	2	0	4	5	4
2		PEC	PROFESSIONAL ELECTIVE-2	3	0	0	0	3	3	3
3		PEC	PROFESSIONAL ELECTIVE-3	3	0	0	2	3.5	5	3.5
4		PEC	PROFESSIONAL ELECTIVE-4	3	0	0	0	3	3	3
5		PEC	PROFESSIONAL ELECTIVE-5	3	0	0	0	3	3	3
								16.5		**16.5**
1	25IE2040	PRI	SOCIAL INTERNSHIP	0	0	0	4	0	4	0
2	25IE3041	PRI	TECHNICAL INTERNSHIP	0	0	0	4	0	4	0
3	25IE4053	PRI	ENGINEERING CAPSTONE PROJECT - 1/PS/I	0	0	8	16	8	12	8
4	25IE4054	PRI	ENGINEERING CAPSTONE PROJECT - 2/PS/I	0	0	8	16	8	12	8
								16		16

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1		OEC	OPEN ELECTIVE - 1	3	0	0	0	3	3	3
2		OEC	OPEN ELECTIVE - 2	3	0	0	0	3	3	3
3		OEC	OPEN ELECTIVE - 3	3	0	0	0	3	3	3
								9		**9**
1		SPORT	SPORTS / YOGA CERTIFICATION	0	0	0	2	0	2	0
2		VAC	VALUE ADDED COURSE -1(AUTO CAD)	0	0	0	2	0	2	0
3		VAC	VALUE ADDED COURSE -2(CYPECAD)	0	0	0	2	0	2	0
4		VAC	VALUE ADDED COURSE -3(REVIT ARCHITECTURE)	0	0	0	2	0	2	0
								0		**0**
			TOTAL					**165**		**165**

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Y24 CATEGORYWISE STRUCTURE

Sl.No.	Course code	Type	Course Title	L	T	P	S	CR	CH	CE
1	24UC0017	AUC	INDIAN ANCIENT KNOWLEDGE SYSTEMS: VEDIC MATHEMATICS	2	0	0	0	0	2	0
2	24UC0032	AUC	INSIGHTS TO SUSTAINABLE DEVELOPMENT GOALS	2	0	0	0	0	2	0
3	23UC0008	AUC	INDIAN CONSTITUTION	2	0	0	0	0	2	0
4	23UC0009	AUC	ECOLOGY AND ENVIRONMENT	2	0	0	0	0	2	0
5	23UC0018	AUC	FUNDAMENTAL OF MATHEMATICS	2	0	0	0	0	2	0
								0		**0**
1	23MT1001	BSC	LINEAR ALGEBRA AND CALCULUS FOR ENGINEERS	2	2	0	0	4	4	4
2	23MT2003	BSC	MATHEMATICAL MODELLING & NUMERICAL METHODS	2	2	0	0	4	4	4
3	24MT2019	BSC	PROBABILITY AND STATISTICS	2	2	0	0	4	4	4
4	22CE1201	BSC	SCIENCE ELECTIVE -1 (ENGINEERING GEOLOGY))	3	0	2	0	4	5	4
5	24CE2212	BSC	SCIENCE ELECTIVE -2 (ENVIRONMENTAL ENGINEERING)	3	0	2	0	4	5	4
								20		20
1	23ME1001	ESC	ENGINEERING MECHANICS	3	0	0	0	3	3	3
2	23ME1002	ESC	ENGINEERING GRAPHICS	0	0	4	0	2	4	2
3	24CE2102	ESC	FLUID MECHANICS AND HYDRAULICS	3	0	2	0	4	5	4

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4	24CE3214	ESC	CONSTRUCTION ENGINEERING & MANAGEMENT	3	1	0	0	4	4	4
5	23SC1101	ESC	COMPUTATIONAL THINKING FOR STRUCTURAL DESIGN	3	0	2	4	5	9	5
6	23ME1103	ESC	DESIGN TOOLS WORKSHOP	0	0	4	0	2	4	2
7	23EC1203	ESC	BASIC ELECTRICAL ELECTRONIC CIRCIUTS	2	0	0	0	2	2	2
8	24SC1204	ESC	DATA STRUCTURES USING PYTHON	3	0	4	0	5	7	5
								27		27
1	24UC1203	HAS	DESIGN THINKING FOR INNOVATION	2	0	2	0	3	4	2
2	24UC1102	HAS	LANGUAGE SKILLS FOR ENGINEERS	0	0	4	0	2	4	2
3	24UC1204	HAS	COMMUNICATION SKILLS FOR ENGINEERS	0	0	4	0	2	4	2
4	24MBXXXX	HAS	MANAGEMENT ELECTIVE	3	0	0	0	3	3	3
5	24FLXXXX	HAS	FORFIGN LANGUAGE	3	0	0	0	3	3	3
6	23UC0026	HAS	HUMAN VALUES, GENDER EQUALITY AND PROFESSIONAL ETHICS	2	0	0	0	2	2	2
7	22UC0021	SIL	SOCIAL IMMERSIVE LEARNING-1	0	0	2	0	1	2	1
8	22UC0022	SIL	SOCIAL IMMERSIVE LEARNING - 2	0	0	2	0	1	2	1
								17		16
	24CE2103R	PCC	SURVEYING	3	0	2	2	4.5	5	4.5
	24CE2105	PCC	SOLID MECHANICS	3	0	2	0	4	5	4
	24CE2104	PCC	BUILDING MATERIALS, PLANNING & DRAWING	3	0	2	0	4	5	4
	24CE2206	PCC	STRUCTURAL ANALYSIS	3	1	0	0	4	4	4
	24CE2207R	PCC	CONCRETE TECHNOLOGY	3	0	2	0	4	5	5

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	24CE2209	PCC	TRANSPORTATION ENGINEERING	3	0	2	2	4.5	7	4
	24CE2208R	PCC	GEOTECHNICAL ENGINEERING	3	0	2	2	4.5	7	4
	24CE3110R	PCC	DESIGN OF REINFORED CONCRETE STRUCUTRES	3	0	2	0	4	5	4
	24CE3111	PCC	WATER RESOURCE ENGINEERING	3	1	0	0	4	4	4
	24CE3213R	PCC	DESIGN OF STEEL STRUCTURES	3	1	0	0	4	4	4
								41.5		41.5
	24CE2233F	FCC	FLEXI CORE-1(A&RCE)	2	0	2	0	3	4	3
	24CE2234F	FCC	FLEXI CORE-2(QUANTITY SURVEYING & ESTIMATION)	2	0	2	0	3	4	3
								6		**6**
	24SDCE01R	SDC-1	VISUALIZATION & MODELLING FOR STRUCTURAL DESIGN	1	0	0	4	2	5	2
	24SDCE02R	SDC-2	BUILDING INFORMATION MODELLING	1	0	0	4	2	5	2
	24SDCE03R	SDC-3	ANALYSIS & DESIGN OF MULTI-STORIED STRUCTURES USING ETABS	1	0	0	4	2	5	2
		SDC-4	PLANNING AND SCHEDULING OF RESIDENTIAL BUILDING USING PRIMAVERA	1	0	0	4	2	5	2
								8		**8**
		PEC	PROFESSIONAL ELECTIVE-1	3	0	2	0	4	5	4
		PEC	PROFESSIONAL ELECTIVE-2	3	0	0	0	3	3	3
		PEC	PROFESSIONAL ELECTIVE-3	3	0	0	2	3.5	5	3.5
		PEC	PROFESSIONAL ELECTIVE-4	3	0	0	0	3	3	3

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		PEC	PROFESSIONAL ELECTIVE-5	3	0	0	0	3	3	3
								16.5		**16.5**
	24IE2040	PRI	SOCIAL INTERNSHIP	0	0	0	4	0	4	0
	24IE3041	PRI	TECHNICAL INTERNSHIP	0	0	0	4	0	4	0
	24IE4053	PRI	ENGINEERING CAPSTONE PROJECT - 1/PS/I	0	0	8	16	8	12	8
	24IE4054	PRI	ENGINEERING CAPSTONE PROJECT - 2/PS/I	0	0	8	16	8	12	8
								16		**16**
		OEC	OPEN ELECTIVE - 1	3	0	0	0	3	3	3
		OEC	OPEN ELECTIVE - 2	3	0	0	0	3	3	3
		OEC	OPEN ELECTIVE - 3	3	0	0	0	3	3	3
								9		**9**
		SPORT	SPORTS / YOGA CERTIFICATION	0	0	0	2	0	2	0
		VAC	VALUE ADDED COURSE -1(AUTO CAD)	0	0	0	2	0	2	0
		VAC	VALUE ADDED COURSE -2(CYPECAD)	0	0	0	2	0	2	0
		VAC	VALUE ADDED COURSE -3(REVIT ARCHITECTURE)	0	0	0	2	0	2	0
								0		**0**
			TOTAL					**161**		**161**

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ANNEXURE-III

Sl No	Course Code	Course Title	Short Name	MOD E	L	T	P	S	C r	C H	Pre-Requisite	SE M	SE	CT SE	GJ
1	25UC5201	PROFESSIONAL COMMUNICATION SKILLS	PCS	R	0	0	4	0	0	4	NIL	1	Y	Y	Y
2	25CE5101	MS PROJECTS	MSP	R	0	0	4	0	0	2	NIL	2	Y	Y	
3	25CE5102	QUANTUM GIS	QGIS	R	0	0	4	0	0	2	NIL	2			Y
													0	0	0
1	25MT5003	NUMERICAL METHODS	NM	R	2	2	0	0	4	4	NIL	1	Y	Y	Y
													4	4	4
1	25CE5103	STRUCTURAL DYNAMICS	SD	R	3	0	2	0	4	5	NIL	1	Y		
2	25CE5104	ADMIXTURES AND SPECIAL CONCRETE	ACT	R	3	0	2	0	4	5	NIL	1	Y	Y	
3	25CE5105	ADVANCED PRESTRESSED CONCRETE STRUCTURES	APC S	R	3	1	0	0	4	4	NIL	1	Y		
4	25CE5206	FINITE ELEMENT ANALYSIS FOR STRUCTURAL ENGINEERING	FEAS E	R	3	0	2	0	4	5	NIL	2	Y		
5	25CE5207	DESIGN STRUCTURES FOR BRIDGE ENGINEERING	BE	R	3	0	0	0	3	3	NIL	2	Y		
4	25CE5121	CONSTRUCTION PLANNING SCHEDULING AND CONTROL	CPSC	R	3	0	1	0	4	5	NIL	1		Y	

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2	25CE5123	PRE-ENGINEERING CONSTRUCTION AND TECHNOLOGY	PCT	R	3	1	0	0	4	4	NIL	1		Y	
3	25CE5224	MECHANIZED CONSTRUCTION AND MACHINERY	MCM	R	3	1	0	0	4	4	NIL	2		Y	
4	25CE5225	BUILDING INFORMATION MODELLING AND COMPUTER APPLICATION	BIM	R	2	0	2	0	3	4	NIL	2		Y	
1	25CE5131	GEOGRAPHICAL INFORMATION SYSTEM	GIS	R	2	0	2	4	4	8	NIL	1			Y
2	25CE5132	FUNDAMENTALS OF GEOSPATIAL TECHNOLOGY	FGT	R	3	0	2	0	4	5	NIL	1			Y
3	25CE5133	PHOTOGRAMMETRY	PG	R	3	0	2	0	4	5	NIL	1			Y
4	25CE5234	DIGITAL IMAGE PROCESSING	DIP	R	3	0	2	0	4	5	NIL	2			Y
5	25CE5235	GIS DATA ANALYSIS & MODELLING	GDAM	R	2	0	2	0	3	4	NIL	2			Y
													19	19	19
1	PE-1	PROFESSIONAL ELECTIVE - 1	PE-1	R	2	0	2	0	3	4	NIL	1	Y	Y	Y
2	PE-2	PROFESSIONAL ELECTIVE - 2	PE-2	R	2	0	2	0	3	4	NIL	2	Y	Y	Y
3	PE-3	PROFESSIONAL ELECTIVE - 3	PE-3	R	3	0	2	0	4	5	NIL	2	Y	Y	Y
4	PE-4	PROFESSIONAL ELECTIVE - 4	PE-4	R	3	0	0	0	3	3	NIL	2	Y	Y	Y

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5	PE-5	PROFESSIONAL ELECTIVE - 5	PE-5	M	3	0	0	0	3	3	NIL	3	Y	Y	Y
													16	**16**	**16**
1	25IE5201	ESSENTIALS OF RESEARCH DESIGN	ERD	R	1	1	0	0	2	2		1	Y	Y	Y
2	25IE5149	TERM PAPER	TP	R	0	0	8	0	4	8		2	Y	Y	Y
3	25IE6150	DISSERTATION	DISS -1	R	0	0	32	0	16	32		3	Y	Y	Y
4	25IE6250	DISSERTATION	DISS -2	R	0	0	32	0	16	32		4	Y	Y	Y
													38	**38**	**38**
1	OE-1	OPEN ELECTIVE - 1	OE-1	R/M	3	0	0	0	3	3	NIL	4	Y	Y	Y
													3	**3**	**3**
1	VAC-1	VALUE ADDED COURSE-1	VAC-1	R/M	0	0	0	8	0	0	NIL	3	Y	Y	Y
2	VAC-2	VALUE ADDED COURSE-2	VAC-2	R/M	0	0	0	8	0	0	NIL	4	Y	Y	Y
													80	**80**	**80**

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Sl No	Elective / Stream	ELECTIVE NUMBER	Course Code	Course Title	Mode	L	T	P	S	Cr	CH
1	PROFESSIONAL ELECTIVE	PEC-1	25CE51 A1	PRE ENGINEERED STRUCTURES	R	3	0	0	0	3	3
2	PROFESSIONAL ELECTIVE	PEC-1	25CE51 A2	DESIGN OF OFFSHORE STRUCTURES	R	2	0	2	0	3	4
3	PROFESSIONAL ELECTIVE	PEC-1	25CE51 A3	THEORY OF PLATES AND SHELLS	R	2	0	2	0	3	4
4	PROFESSIONAL ELECTIVE	PEC-2	25CE51 B1	DESIGN AND DETAILING OF STRUCTURES	R	2	0	2	0	3	4
5	PROFESSIONAL ELECTIVE	PEC-2	25CE51 B2	REPAIR AND REHABILITATION OF STRUCTURES	R	3	0	0	0	3	3
6	PROFESSIONAL ELECTIVE	PEC-2	25CE51 B3	STRUCTURAL RELIABILITY	R	2	0	2	0	3	4
7	PROFESSIONAL ELECTIVE	PEC-3	25CE52 C1	FRACTURE MECHANICS	R	3	0	2	0	4	5
8	PROFESSIONAL ELECTIVE	PEC-3	25CE52 C2	DESIGN OF TALL STRUCTURES	R	3	0	2	0	4	5
9	PROFESSIONAL ELECTIVE	PEC-3	25CE52 C3	DESIGN OF CONNECTIONS IN STEEL STRUCTURES	R	3	0	2	0	4	5
10	PROFESSIONAL ELECTIVE	PEC-4	25CE52 D1	EARTHQUAKE RESISTANT DESIGN OF STRUCTURES	R	3	0	0	0	3	3
11	PROFESSIONAL ELECTIVE	PEC-4	25CE52 D2	STABILITY OF STRUCTURES	R	3	0	0	0	3	3

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12	PROFESSIONAL ELECTIVE	PEC-4	25CE52D3	SOIL STRUCTURE INTERACTION	R	3	0	0	0	3	3
13	PROFESSIONAL ELECTIVE	PEC-5	25CE52R1M	APPLICATIONS OF STRUCTURES IN GREEN BUILDINGS	M	3	0	0	0	3	3
14	PROFESSIONAL ELECTIVE	PEC-5	25CE52R2M	AI IN CIVIL ENGINEERING	M	3	0	0	0	3	3
1	PROFESSIONAL ELECTIVE	PE1	25CE51E1	MATERIAL PROCUREMENT MANAGEMENT	R	3	0	0	0	3	3
2	PROFESSIONAL ELECTIVE	PE1	25CE51E2	GREEN BUILDINGS	R	2	0	2	0	3	4
3	PROFESSIONAL ELECTIVE	PE1	25CE51E3	SUSTAINABLE ENGINEERING CONCEPTS AND LIFE CYCLE ANALYSIS	R	2	0	2	0	3	4
4	PROFESSIONAL ELECTIVE	PE2	25CE51F1	CONSTRUCTION PERSONNEL MANAGEMENT	R	3	0	0	0	3	3
5	PROFESSIONAL ELECTIVE	PE2	25CE51F2	LEAN CONSTRUCTION PRACTICES	R	2	0	2	0	3	4
6	PROFESSIONAL ELECTIVE	PE2	25CE51F3	INFRASTRUCTURE PLANNING AND MANAGEMENTS	R	2	0	2	0	3	4
7	PROFESSIONAL ELECTIVE	PE3	25CE52G1	STATISTICAL METHODS IN CONSTRUCTION	R	3	0	2	0	4	5
8	PROFESSIONAL ELECTIVE	PE3	25CE52G2	PROJECT RISK MANAGEMENT	R	3	0	2	0	4	5
9	PROFESSIONAL ELECTIVE	PE3	25CE52G3	CHARACTERIZATION OF CONSTRUCTION MATERIALS	R	3	0	2	0	4	5

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10	PROFESSIONAL ELECTIVE	PE4	25CE52H1	EMERGING CONSTRUCTION TECHNOLOGIES	R	3	0	0	0	3	3
11	PROFESSIONAL ELECTIVE	PE4	25CE52H2	RESOURCE MANAGEMENT AND CONTROL IN CONSTRUCTION	R	3	0	0	0	3	3
12	PROFESSIONAL ELECTIVE	PE4	25CE52H3	PRINCIPLES OF CONSTRUCTION MANAGEMENT	R	3	0	0	0	3	3
13	PROFESSIONAL ELECTIVE	PE4	25CE52S1	QUALITY MANAGEMENT AND SAFETY MANAGEMENT SYSTEMS IN CONSTRUCTION	M	3	0	0	0	3	3
14	PROFESSIONAL ELECTIVE	PE5	25CE52R2	AI IN CIVIL ENGINEERING	M	3	0	0	0	3	3
1	PROFESSIONAL ELECTIVE	PE1	25CE51I1	PRINCIPLES OF EARTH & ENVIRONMENT SCIENCES	R	2	0	2	0	3	4
2	PROFESSIONAL ELECTIVE	PE1	25CE51I2	STRUCTURAL ANALYSIS USING GEOMATICS	R	2	0	2	0	3	4
3	PROFESSIONAL ELECTIVE	PE1	25CE51I3	GEOSPATIAL TECHNOLOGY FOR TRANSPORT ENGINEERING	R	2	0	2	0	3	4
4	PROFESSIONAL ELECTIVE	PE2	25CE51J1	STATISTICS AND ADJUSTMENT COMPUTATIONS	R	2	0	2	0	3	4
5	PROFESSIONAL ELECTIVE	PE2	25CE51J2	ENVIRONMENTAL GEOINFORMATICS	R	2	0	2	0	3	4
6	PROFESSIONAL ELECTIVE	PE2	2CE51J3	GEODESY AND GPS	R	2	0	2	0	3	4

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7	PROFESSIONAL ELECTIVE	PE3	25CE52K1	ADASTRAL SURVEY AND INFORMATION SYSTEM	R	3	0	2	0	4	5
8	PROFESSIONAL ELECTIVE	PE3	25CE52K2	ENGINEERING SURVEY METHODOLOGY AND INSTRUMENTATION	R	3	0	2	0	4	5
9	PROFESSIONAL ELECTIVE	PE3	25CE52K3	GEOSPATIAL TECHNOLOGY FOR NATURAL RESOURCES & DISASTER MANAGEMENT	R	3	0	2	0	4	5
10	PROFESSIONAL ELECTIVE	PE4	25CE52L1	PRINCIPLES OF GEOMATICS	R	3	0	0	0	3	3
11	PROFESSIONAL ELECTIVE	PE4	25CE52L2	GEOSPATIAL TECHNOLOGY FOR RURAL DEVELOPMENT	R	3	0	0	0	3	3
12	PROFESSIONAL ELECTIVE	PE4	25CE52L3	COORDINATE SYSTEMS AND MAP PROJECTIONS	R	3	0	0	0	3	3
13	PROFESSIONAL ELECTIVE	PE4	25CE52T1	GEOSPATIAL APPLICATION	M	3	0	0	0	3	3
14	PROFESSIONAL ELECTIVE	PE5	25CE52T2	GIS IMAGE ANALYSIS IN ARCGIS PRO	M	3	0	0	0	3	3

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ANNEXURE-IV

List of Pre-Ph. D Courses approved by

S.NO	PAPER – 2	Code	PAPER – 3	Code
1.	Sustainable Construction Materials and Methods	25 CE 201	Advanced Concrete Technology	25 CE 301
2.	Finite Element Analysis	25 CE 202	Advanced Design of Structures	25 CE 302
3.	Optimization Techniques	25CE 203	Advanced Structural Mechanics	25 CE 303
4.	Structural Dynamics	25 CE 204	Remote Sensing and Geographic Information System	25 CE 304
5.	Advanced Wastewater Treatment	25 CE 205	Surfaces Hydrologic Systems	25 CE 305
6.	Water Quality and Environment	25 CE 206	River Hydraulics	25 CE 306
7.	Hydrologic Elements and Analysis	25 CE 207	Watershed and Wetland Management	25 CE 307
8.	Geosynthetics	25 CE 208	Ground Improvement Techniques	25 CE 308
9.	Geotechnical Earthquake Engineering	25 CE 209	Pavement Construction and Management	25 CE 309
10.	Traffic Engineering	25 CE 210	Environmental Impact Assessment	25 CE 310

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