VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS) DEPARTMENT OF CIVIL ENGINEERING

AGENDA

- 1. To review the minutes and approve the Action Taken Report on the decisions taken in the last meeting held on 27.06.2023
- 2. Review of Department Vision & Mission, PEO's, PSO's and CO's.
- 3. Note on the department achievements
- 4. To discuss & review the following for the BE (Civil) students to be admitted during the academic year 2024-25 (R24)
 - a). Scheme of Instruction and Examinations from I to VIII semesters
 - b). Syllabi for I & II semester courses
- 5. To discuss & review the following for the BE (Civil) students to be admitted during the academic year 2023-24 (R23)
 - a). Scheme of Instruction and Examinations from III & IV semesters
 - b). Syllabi for III & IV semester courses
- 6. To discuss & review the following for the BE (Civil) students to be admitted during the academic year 2022-23 (R22)
 - a). Scheme of Instruction and Examinations from V & VI semesters
 - b). Syllabi for V & VI semester courses
- 7. To discuss & review the following for the BE (Civil) students to be admitted during the academic year 2021-22 (R21)
 - a). Scheme of Instruction and Examinations from VII & VIII semesters
 - b). Syllabi for VII & VIII semester courses
- 8 Any other item with the permission of the chair.

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS) DEPARTMENT OF CIVIL ENGINEERING

ACTION TATKEN REPORT - MINUTES OF THE BOARD OF STUDIES MEETING HELD ON 15.05.2024

Lr. No. VCE/CED/A08/2023-24/425 Date: 15.05.2024

Members Present:

1	Dr.B.Sridhar	Professor, Department of Civil Engineering, VCE
2	Prof. M. Kumar	Professor, College of Engineering, Osmania University, Hyderabad
3	Prof.P.Rajasekhar	University Nominee, Professor, Department of Civil Engineering, OU College of Engg.
4	Prof. T. Shashidhar	Professor, Department of Civil Engg., IIT Hyderabad
5	Dr. M.V. Rama Rao	Professor, Department of Civil Engineering, VCE
6	Dr. C. Mohanlal	Associate Professor, Department of Civil Engineering, VCE
7	Dr. S. Vijaya Kumar	Associate Professor, Department of Civil Engineering, VCE
8	Dr.M.V.S.S. Sastri	Associate Professor, Department of Civil Engineering, VCE
9	Dr.K.Jayasree	Associate Professor, Department of Civil Engineering, VCE
10	Mr.G.Srinivas	Associate Professor, Department of Civil Engineering, VCE
11	Mr.G.Raghavendra	Associate Professor, Department of Civil Engineering, VCE
12	Mrs. P.Dhatri	Assistant Professor, Department of Civil Engineering, VCE
13	Mr. S. Kesav Kumar	Assistant Professor, Department of Civil Engineering, VCE
14	Mr. B. Jagadeesh	Assistant Professor, Department of Civil Engineering, VCE
15	Mrs.R.Sowmya	Assistant Professor, Department of Civil Engineering, VCE
17	Mr. J. Chaitanya	Assistant Professor, Department of Civil Engineering, VCE
18	Mrs. Krati Sharma	Assistant Professor, Department of Civil Engineering, VCE

At the outset, the Chairman of BOS& HOD welcomed the members for attending the Board of StudiesMeeting. The Chairman further expressed special thanks to all the members for sparing the time from their busy schedule to attend the meeting.

After that the agenda items were taken up and the board decided/ recommended as under:

S. No.	Comments	Action Taken
	Board has reviewed previous Minutes of the Board of Studies Meeting held on 27.06.2023and action taken report.	Approved by the members.
	During the meeting, there was a discussion over the vision, mission, Program Educational Objectives (PEOs), and Program Specific Outcomes (PSOs) of the Civil Engineering department. It was felt that the current vision, mission, PEOs, and PSOs align effectively with the department's objectives, andhence were endorsed.	

S.		Comments		Action Taken
No.				
3.	Board reviewed Department's achievements recognizing and acknowledging notable milestones and advancements.			
4.	Board has revi	ewed schemes and syllabu	s as follows:	-
	Regulation	Review of Scheme	Review of syllabus	
	R24	I to VIII Semesters	I and II Semesters	
	R23	III and IV Semesters	III and IV Semesters	
	R22	V and VI Semesters	V and VI Semesters	
	R21	VII and VIII Semesters	VII and VIII Semesters	
5.	Prof. P. Rajasekar proposed an insightful addition to the curriculum by recommending the inclusion of geology as a subject, complemented by a laboratory component. This addition aims to enhance the prospects of students seeking government employment opportunities, particularly in the specialized domain of hydrogeology. Prof. B. Sridhar, Chairman of the Board of Studies, mentioned that a few geology experiments are demonstrated in the co-curricular activities of the second year.			1
6	Prof. Kumar proposed the integration of the latest editions of references for Basic Engineering Mechanics, emphasizing the incorporated by Mr. G. Raghavendra. importance of keeping the curriculum abreast with current advancements and insights in the field.			
7	Dr. Shashidhar and Prof.M. Kumar recommended the integration of computer-based Computer-Aided Design (CAD) software into the Engineering Drawing subject. They suggested allocating one unit to introduce manual drawing with physical instruments, while dedicating the remaining units to AUTOCAD training. This adjustment aims to equip students with practical skills relevant to modern engineering practices. Dr. B. Sridhar, Chairman of the Board of Studies, highlighted tha manual drawing is incorporated to strengthen concepts by facilitating the visualization of drawings and bolster concepts by fostering the development of students imaginative capabilities.			
8	Dr. Shashidhar proposed replacing traditional workshop sessions with instruction on 3-D printing technology. This innovative demonstration on "3D Printing suggestion aims to align the curriculum with emerging trends in engineering and foster hands-on experience with cutting-edge manufacturing techniques.		demonstration on "3D Printing	
9	Dr. Kumar recommended augmenting the Environmental Science ourriculum with practical applications and project work. This approach seeks to enhance students' understanding of the subject matter by engaging them in hands-on experiences and real-world			following reply with reference to the instructions received by them from

S.	Commonto	Antion	Talian
No.	Comments	Action	ıaken
	projects, thereby deepening their knowledge and skills in the domain.	the undersigned wi subject of Environn	
10	Water and Air Acts before the Environmental Protection Act and including topic on "Recycling of e-waste". Additionally, he suggested expanding the coverage of climate change within the curriculum. Dr. Shashidhar suggested revising the syllabus content by removing Population Explosion. Prof. Rajasekar emphasized the importance of Environmental Science as a foundational subject for Environmental and Water Resources Engineering. All subsequent frameworks following the Kyoto Protocol, including agreements like the Dubai and Paris Accords, should be integrated into the Environmental Science curriculum. This ensures students are well-versed in contemporary environmental agreements and their implications,	Kumar as a part of b) To consider the Prof. Rajasekhar of Accords of Duba summary in Glob Governance. c)To consider reme population explosion d)However she inclusion of Clim Water and Air Acts	e suggestions of in Kyoto protocol/ in and Paris as in all Environmental moval of topic on in. Treplied that the late change and in the curriculum in the curriculum in the with existing contact hours and sible by additional
	Prof. Kumar and Dr. Shashidhar recommended the inclusion of topics on construction machinery within the Building Material and Construction course. This addition provides students with exposure to a wide array of construction equipment, enhancing their understanding of modern construction practices and techniques.	who is currentl subject,hasincorpor	y handling the rated topics
12	Prof. P. Rajasekar proposed that there should be a continuity in the subjects related to Fluid Mechanics, Hydraulics and Hydraulic Machinery, Water Resource Engineering and Hydraulic Structures right from III-Semester.	be one semeste subjects related to	r gap between
		Subject	Semester
		Fluid Mechanics	IV
		Hydraulics and Hydraulic Machinery	V
		Water Resource Engineering	VII

S.	Comments	Action	Taken
No.		Groundwater Hydrology	VIII
		Hydraulic Structures	VIII
13	Prof. P. Rajasekar proposed incorporating syllabus topics relevant to Hydraulics and Hydraulic Machinery into the Water Resource Engineering course through more assignments and homework as the syllabus is more. This course aims to ensure comprehensive coverage of Hydrology concepts, which carry significant weightage in competitive exams like GATE and IES	_	and modifications
14	Dr. Shashidhar proposed removing the topic of air pollution from the Environmental Engineering course if it has already been covered comprehensively in the Environmental Science curriculum. This optimization ensures that course content remains focused and avoids redundancy, allowing for a more efficient use of instructional time and resources.	the suggestions a	and modifications
15	Prof. Kumar recommended including the Indo-HCM 2018 manual in the references for the Highway Engineering course. Additionally, he proposed simplifying the course objectives for better comprehension by students. To accommodate the extensive syllabus, he suggested allocating more class sessions to the course	incorporated the	suggestions and
16	In the Traffic Engineering course, Prof. Kumar recommended several revisions and additions to enhance its comprehensiveness and relevance. He proposed relocating traffic safety topics to Unit V and introducing new topics such as the design of intersections, rotaries, and traffic simulation, including an introduction to VISSIM tools. Moreover, he suggested incorporating planning and design aspects of non-motorized transport infrastructure like pedestrian facilities, cycle tracks, foot-over bridges, and skywalks. To streamline the course, Prof. Kumar advised removing topics already covered in Highway Engineering and focusing Unit I on basic traffic engineering concepts. He emphasized the inclusion of delay studies and Origin-Destination (OD) studies in the curriculum. Additionally, Dr. Kumar suggested incorporating statistical distributions in Unit I to provide students with a foundational understanding of traffic engineering	Dr. K. Jayasree a given by the expe are made in the sy	erts. And changes yllabus as per the

S.	Comments	Action Taken
No.		
	principles. These proposed changes aim to enrich the Traffic Engineering course with contemporary topics and practical applications, ensuring students are well-equipped to address current challenges in transportation engineering. In Unit II, Dr. Kumar recommended integrating topics on highway capacity and Level of Service (LOS) determination using the Indo-HCM guidelines. He also proposed including the IRC: SP:88 manual on Road Safety Audit in both content and references.	
17	Prof. P. Rajasekar and Dr. Shashidhar recommended incorporating fundamentals of Thermodynamics into the acoustics and optics courses in the Physics curriculum. This addition is crucial as it lays the groundwork for understanding compressible fluid flow, which is integral to these subjects.	is included in the acoustics and optics courses in the Physics curriculum
18	Prof. Kumar proposed the integration of entrepreneurship courses into the second and third years of the curriculum. This initiative aims to nurture students' entrepreneurial skills and mindset, empowering them to explore innovative opportunities and contribute to the entrepreneurial ecosystem.	-
19	Professor P. Rajasekar recommended correcting the term "Groundwater" to be consistently written as a single word throughout the syllabus book.	Modification, as suggested by Prof. Rajasekar is incorporated by Mr. B.Jagadeesh.
20	In the subject Groundwater Hydrology, Prof. P. Rajasekar and Dr. Shashidhar recommended integrating topics on contaminant transport, including adhesion, diffusion, dispersion, etc., along with topics on Fick's law and saltwater intrusion in groundwater, within Unit V. Additionally, they suggested adding the Central Ground Water Board (CGWB) manual to the list of references. These additions enhance the depth and relevance of the curriculum, ensuring students are well-equipped to address contemporary challenges in groundwater management and contamination.	subjects has incorporated topics
21	Dr. Kumar and Dr. Shashidhar recommended a revision to the syllabus of the Design of Concrete Structures (DCS) lab. They proposed integrating programming language usage for concrete structure design, aiming to provide students with practical skills applicable to real-world scenarios.	Raghavendra have prepared the syllabus for the lab course. In that,

S. No.	Comments	Action Taken
22	devening. This collaborative annuaged engines that students receive	have incorporate topics suggested by

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Members Present:

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5	Prof. T. Shashidhar	Professor, Department of Civil Engg., IIT Hyderabad
6	Prof. V. Vinayaka Ram	Professor, Department of Civil engineering, BITS, Hyderabad
7	Dr.AnasuaGuharay	Associate Professor, Department of Civil engineering, BITS, Hyderabad
8	Er. P. Suryaprakash	CEO, M/s. Satyavani Projects, Hyderabad
9	Dr. M.V. Rama Rao	Professor, Department of Civil Engineering, VCE
10	Dr. C. Mohanlal	Associate Professor, Department of Civil Engineering, VCE
11	Dr. S. Vijaya Kumar	Associate Professor, Department of Civil Engineering, VCE
12	Dr.M.V.S.S. Sastri	Associate Professor, Department of Civil Engineering, VCE
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At the outset, the Chairman of BOS& HOD welcomed the members for attending the Board of StudiesMeeting. The Chairman further expressed special thanks to all the members for sparing the time from their busy schedule to attend the meeting.

After that the agenda items were taken up and the board decided/ recommended as under:

- 1. Board has reviewed previous Minutes of the Board of Studies Meeting held on 27.06.2023and action taken report.
- 2. During the meeting, there was an examination of the overarching vision, mission, Program Educational Objectives (PEOs), and Program Specific Outcomes (PSOs) of the Civil Engineering department. It was determined that the current vision, mission, PEOs, and PSOs align effectively with the department's objectives, and hence were endorsed.

- 3. Board reviewed Department's achievements recognizing and acknowledging notable milestones and advancements.
- 4. Board has reviewed schemes and syllabus as follows:

Regulation	Review of Scheme	Review of syllabus
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- 8 Dr. Shashidhar proposed replacing traditional workshop sessions with instruction on 3-D printing technology. This innovative suggestion aims to align the curriculum with emerging trends in engineering and foster hands-on experience with cutting-edge manufacturing techniques.
- 9 Dr. Kumar recommended augmenting the Environmental Science curriculum with practical applications and project work. This approach seeks to enhance students' understanding of the subject matter by engaging them in hands-on experiences and real-world projects, thereby deepening their knowledge and skills in the domain.
- 10 Dr. Kumar proposed reordering the sequence of topics in the Environmental Science syllabus, recommending the inclusion of the Water and Air Acts before the Environmental Protection Act and including topic on "Recycling of e-waste". Additionally, he suggested expanding the coverage of climate change within the curriculum. Dr. Shashidhar suggested revising the syllabus content by removing Population Explosion .Professor P. Rajasekar emphasized the importance of Environmental Science as a foundational subject for Environmental and Water Resources Engineering. All subsequent frameworks following the Kyoto Protocol, including agreements like the Dubai and Paris Accords, should be integrated into the Environmental Science curriculum. This ensures students are well-versed in contemporary

- environmental agreements and their implications, fostering a comprehensive understanding of global environmental governance.
- 11 Dr. Kumar and Dr. Shashidhar recommended the inclusion of topics on construction machinery within the Building Material and Construction course. This addition provides students with exposure to a wide array of construction equipment, enhancing their understanding of modern construction practices and techniques.
- Professor P. Rajasekar proposed integrating Fluid Mechanics with the Strength of Materials course, suggesting that both subjects be taught concurrently. Additionally, he recommended transferring Fluid Mechanics and its laboratory sessions to the third semester. Dr. M. Kumar suggested repositioning the Surveying course to the fourth semester and Concrete Technology to the fifth semester. Prof. P. Rajasekar recommended organizing Fluid Mechanics, Hydraulics and Hydraulic Machinery, as well as Water Resource Engineeringcourses, in a sequential manner across the 3rd, 4th, and 5th semesters, respectively. This arrangement ensures a logical progression of topics, allowing students to build upon their understanding and skills in the field of hydraulic engineering progressively.
- 13 Prof. P. Rajasekar proposed incorporating syllabus topics relevant to Hydrology into the Water Resource Engineering course through more assignments and homeworks as the syllabus is more. This course aims to ensure comprehensive coverage of Hydrology concepts, which carry significant weightage in competitive exams like GATE and IES.
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- 20 Prof. P. Rajasekar and Dr. Shashidhar recommended integrating topics on contaminant transport, including adhesion, diffusion, dispersion, etc., along with topics on Fick's law and saltwater intrusion in groundwater, within Unit V. Additionally, they suggested adding the Central Ground Water Board (CGWB) manual to the list of references. These additions enhance the depth and relevance of the curriculum, ensuring students are well-equipped to address contemporary challenges in groundwater management and contamination.
- 21 Dr. Kumar and Dr. Shashidhar recommended a revision to the syllabus of the Design of Concrete Structures (DCS) lab. They proposed integrating programming language usage for concrete structure design, aiming to provide students with practical skills applicable to real-world scenarios.
- Dr. Kumar and Dr. Shashidhar proposed the inclusion of experiments focusing on civil engineering applications across all specializations in the Artificial Intelligence and Machine Learning (AIML) lab. They suggested allocating Computer Science and Engineering (CSE) faculty to teach the AIML course while involving civil engineering faculty to instruct on its applications within the civil engineering domain. This collaborative approach ensures that students receive comprehensive instruction in both AIML fundamentals and their practical implementation in civil engineering contexts, fostering interdisciplinary learning and skill development.

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS) DEPARTMENT OF CIVIL ENGINEERING

I	Name of the member	present for BOS Meeting on 1 Designation	Category	Signature
	Dr. B.Sridhar	Professor, Department of Civil Engineering, VCE	Head	(X)
	Prof. P. Rajasekhar	Department of Civil Enineering, Osmania University, Hyderabad	University Nominee	Dieselle.
The Part of the Pa	Dr. K.V.L. Subramaniam	Professor, Department of Civil Engg. IIT Hyderabad	Subject Expert	, Opa
	Dr. T. Shashidhar	Professor, Department of Civil Engg., IIT Hyderabad	Subject Expert	hopeda
Section 2	Dr. R. Pradeep Kumar	Professor, IIIT, Gachibowli, Hyderabad.	Subject Expert	
のまだれ	Dr. V. Vinayaka Ram	Department of Civil Engg. BITS, Hyderabad	Subject Expert	V · V — 1
	Dr. M. Kumar	Senior Professor, Department of Civil Engineering, and Former Principal, UCE, Osmania University, Hyderabad	Subject Expert	form
	Dr. V. Padamavathi	Professor, Department of Civil Engineering, JNTUH,Hyderabad	Subject Expert	
	Dr. Anasua Guharay	Assistant Professor, Department of Civil Engineering, BITS, Hyderabad	Subject Expert	
)	Mr. Er. Sunil	Managing Director, Ggroup (Industry)	Industry Expert	
1	Er. P. Suryaprakash	CEO, M/s. Satyavani Projects, Hyderabad	Industry Expert	
2	Dr. M.V. Rama Rao	Professor, Department of Civil Engineering, VCE	Faculty Members	MrKome
3	Dr. C. Mohanlal	Associate Professor, Department of Civil Engineering, VCE	Faculty Members	e.MM
4	Dr. S. Vijaya Kumar	Associate Professor, Department of Civil Engineering, VCE	Faculty Members	S. Coyalo
5	Dr. M.V.S.S. Sastri	Associate Professor, Department of Civil Engineering, VCE	Faculty Members	
6	Dr. K.Jayasree	Associate Professor, Department of Civil Engineering, VCE	Faculty Members	Co
7	Sri. G. Srinivas	Associate Professor, Department of Civil Engineering, VCE	Faculty Members	dung

Name of the member	Designation	Category	Signature
Sri. G. Raghavendra	Associate Professor, Department of Civil Engineering, VCE	Faculty Members	Jeg 1
Mrs. P.Dhatri	Assistant Professor, Department of Civil Engineering, VCE	Faculty Members	A. Chart
Mr. S. Kesav Kumar	Assistant Professor, Department of Civil Engineering, VCE	Faculty Members	
1 Mr. B. Jagadeesh	Assistant Professor, Department of Civil Engineering, VCE	Faculty Members	
2 Mrs. R. Sowmya	Assistant Professor, Department of Civil Engineering, VCE	Faculty Members	R.S
Sri. J. Chaitanya	Assistant Professor, Department of Civil Engineering, VCE	Faculty Members	
Ms. Krati Sharma	Assistant Professor, Department of Civil Engineering, VCE	Faculty Members	(Jah

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS) DEPARTMENT OF CIVIL ENGINEERING STUDENT EXIT SURVEY ACTION TAKEN REPORT FOR 2024-25

S.No		Action taken
1.	Remove the 3 assignments and 3 quizzes system, 2 assignments and 2 quizzes are more than sufficient.	The concern regarding the number of
	Don't keep many seminar lectures, its useful only until one point. Just the introduction of the outside world is enough .	The suggestion has been noted. In response, the department has decided to consolidate seminars and expert lectures into designated activity days or weeks as reflected in the academic calendar. This ensures minimum disruption to regular classwork while continuing to provide students valuable industry exposure and interdisciplinary learning opportunities.
	subject classes is a waste of time. Most of	The concern regarding the frequency of seminars has been noted. However, seminars and expert talks are organized as part of the institution's commitment to provide holistic and quality education that extends beyond the classroom. These sessions offer valuable exposure to current industry practices, research trends, and emerging technologies—an essential component recommended by all accreditation agencies such as NBA and NAAC. The seminars are planned in



coordination with academic schedules to ensure minimal disruption of subject classes. Furthermore, feedback from students who appreciate such industry interactions has been encouraging. The Department will continue to optimize the scheduling of these sessions—preferably grouping them when feasible—while maintaining the balance between academic instruction and industry exposure to enhance the overall learning experience.



VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS) DEPARTMENT OF CIVIL ENGINEERING ALUMNI SURVEY ACTION TAKEN REPORT FOR 2024-25

S.No	Remarks	Action taken
1.	Encourage sports	Sports activities are regularly communicated to students, and the college ground is made available beyond college hours for an additional two hours daily.
	Increase Industrial visits	Additional industrial visits are planned for all semesters from II year, with a detailed action plan included in the calendar of activities before each semester begins.
2.	Guiding the students to take right decisions.	Multiple counselling sessions from alumni, adjunct faculty and subject experts are conducted for students focusing on higher education, employability skills, technical knowledge, software tools, communication skills, and professional ethics. Mentors interact regularly with students to understand and guide their career plans. Additionally, a student counsellor at the institute level supports students through
3	Focus on any co-curricular courses which are helpful in Professional courses.	individual mentoring. The curriculum includes co-curricular activities from III to VI semesters. Technical sessions, workshops, and competitions are organized during these courses. In addition, various extracurricular activity clubs are functional, and participation in both CCA and ECA activities is mandatory for all students to promote helistic development.
4.	Internship for students during course	to promote holistic development. A mandatory Professional Practice School (PPS) is implemented, enabling students to undertake internships for two weeks during the summer break between II and III years. Final-year projects are often carried out in collaboration with industries, serving as extended internships. Students placed through campus recruitment also engage in internships with their employers, while others independently approach industries for hands-on exposure during summer breaks.
F	Practical Experience Practical oriented Assignments & exams Public speaking	hands-on exposure during summer breaks. Course-based projects have been introduced as part of assignments to enhance practical learning. Communication and public

6	Reduce more written works Give creative assignments	speaking skills are addressed through the Finishing School programs and ECA clubs, which organize activities and events aimed at improving student confidence and presentation abilities. To make learning more application-oriented, course-based project assignments have been introduced in place of traditional lengthy written work, encouraging creativity
		and problem-solving among students.



VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS) DEPARTMENT OF CIVIL ENGINEERING PARENTS FEEDBACK ACTION TAKEN REPORT FOR 2024-25

C		
S.No	Remarks	Action taken
1.	There are only 2 core civil subjects in IIIrd semester and more core subjects in 3 rd yr. It may be stressful to handle all major core subjects together in one year	The concern has been discussed in the Department Academic Committee. It was noted that the curriculum structure follows a progressive introduction of core Civil Engineering courses, with foundational knowledge built in the II year. To address the concern, the department will review the course distribution during the next Board of Studies (BoS) meeting to explore the possibility of balancing core subject load across semesters. Additionally, faculty mentors have been advised to provide academic counselling and time management guidance to students to help them cope with the academic workload in the III year.

