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Phone: 08659-222933, Fax: 08659-222931

#### **DEPARTMENT OF CIVIL ENGINEERING**

#### RECOMMENDATIONS/SUGGESTIONS REPORT

PO/PSO ATTAINMENTS Batch: (2018-22) A.Y:2022-23

POs	Target Level	Attainment Level	Observations
<b>PO1: Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.			
	70	66.55	Out of 51 courses, only 43 courses are contributing to this PO1. Out of 43, 28 courses are above PO attainment value of 70%.
	Action 1: Application of fundamentals should be covered through case studies, live examples etc for more clarity of subjects.  Action 2: Application of fundamentals should be covered through case studies, live examples etc for more clarity of subjects.  Action 3: Giving additional assignments for the specific courses that contributed less in attainments.		
engine	<b>PO2: Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.		
	70	64.50	Out of 51 courses, only 38 courses are contributing to this PO2. Out of 38, 23 courses are above PO attainment value of 70%.
	Action 1: More practice on analyzing the given data, formulation of the problem and problem solving should be adopted.  Action 2: The faculty are instructed to conduct more tutorials to improve the studenthinking ability with respect to above aspects.  Action 3: Formulation of problems and their analysis in the above courses are to be practiced in classroom and laboratory through group discussion.  Action 4: Encourage the students to perform a proper literature survey for analyzing and solving complex engineering problems.		
and de	esign system con	nponents or processe	resign solutions for complex engineering problems es that meet the specified needs with appropriate ety, and the cultural, societal, and environmental
	70	64.68	Target not reached Out of 51 courses, only 26 courses are contributing to this PO3. Out of 26, 15 courses



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			are above PO attainment value of 70%.	
	Action 1: Open	l n ended design/anal	lysis problems should be given in assignments for	
	improving the analytical ability.			
	Action 2: Higher cognitive level problems particularly in analysis orientated courses			
		should be discussed in the class rooms.		
	Action 3: Open ended design/analysis problems should be given in assignments for			
	improving the a	analytical ability.		
		-	x problems: Use research-based knowledge and	
researc	ch methods incl	uding design of expe	eriments, analysis and interpretation of data, and	
synthe	esis of the informa	ation to provide valid	conclusions.	
			Target not reached	
	70	0.4.40	Out of 51 courses, only 8 courses are	
	70	64.48	contributing to this PO4. Out of 8, 5 courses are	
			above PO attainment value of 70%.	
	Action 1: The concerned faculty are advised to emphasize more on interpretation			
		vith respect to the pr		
	Action 2: It is	s instructed to trair	n the students to interpret the data obtained in	
	_	nd analytical approac		
			range more industrial visits to improve industry	
	exposure of stu	dents		
	-	delits.		
205 1				
		age: Create, select,		
mo	dern engineering	age: Create, select,	and apply appropriate techniques, resources, and ng prediction and modeling to complex engineering mitations.	
mo	dern engineering	age: Create, select, a	ng prediction and modeling to complex engineering mitations.	
mo	odern engineering tivities with an ur	age: Create, select, agand IT tools includinderstanding of the li	ng prediction and modeling to complex engineering mitations.  Target not reached	
mo	dern engineering	age: Create, select, a	ng prediction and modeling to complex engineering mitations.  Target not reached Out of 51 courses, only 15 courses are	
mo	odern engineering tivities with an ur 70	age: Create, select, ag and IT tools includinderstanding of the li	Target not reached Out of 51 courses, only 15 courses are contributing to this PO5. Out of 15, 6 courses are above PO attainment value of 70%.	
mo	odern engineering civities with an ur	age: Create, select, ag and IT tools includinderstanding of the li	Target not reached Out of 51 courses, only 15 courses are contributing to this PO5. Out of 15, 6 courses are above PO attainment value of 70%.	
mo	70  Action 1: Gralabs/subjects.	age: Create, select, ag and IT tools includinderstanding of the li	Target not reached Out of 51 courses, only 15 courses are contributing to this PO5. Out of 15, 6 courses are above PO attainment value of 70%.  exposed to modern tool usage in the respective	
mo	70  Action 1: Gralabs/subjects. Action 2: Gra	age: Create, select, ag and IT tools includinderstanding of the li	Target not reached Out of 51 courses, only 15 courses are contributing to this PO5. Out of 15, 6 courses are above PO attainment value of 70%.  exposed to modern tool usage in the respective	
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mo	70  Action 1: Gralabs/subjects. Action 2: Gralabs/subjects. Action 3: Stud	age: Create, select, ag and IT tools including and it tools including a second of the limited and attention of the limited and attention of the limited and attention of the limited attention of th	Target not reached Out of 51 courses, only 15 courses are contributing to this PO5. Out of 15, 6 courses are above PO attainment value of 70%.  exposed to modern tool usage in the respective exposed to modern tools that are available to carry	
mo act	70  Action 1: Gralabs/subjects. Action 2: Gralabs/subjects. Action 3: Studout their mini p	age: Create, select, as and IT tools including and it tools including of the linderstanding of the linderstand	Target not reached Out of 51 courses, only 15 courses are contributing to this PO5. Out of 15, 6 courses are above PO attainment value of 70%.  exposed to modern tool usage in the respective exposed to modern tools that are available to carry, PAL, PBL, etc.	
mo act	70  Action 1: Gralabs/subjects. Action 2: Gralabs/subjects. Action 3: Studout their mini presses societal, hea	age: Create, select, as and IT tools including and IT tools including and acceptance of the limited and acceptance of the limited and acceptance of the limited acceptance of	Target not reached Out of 51 courses, only 15 courses are contributing to this PO5. Out of 15, 6 courses are above PO attainment value of 70%.  exposed to modern tool usage in the respective exposed to modern tools that are available to carry, PAL, PBL, etc.  easoning informed by the contextual knowledge to cultural issues and the consequent responsibilities	
mo act	70  Action 1: Gralabs/subjects. Action 2: Gralabs/subjects. Action 3: Studout their mini presses societal, hea	age: Create, select, as and IT tools including and it tools including a second of the limited and attention and a society: Apply residuates and society: App	Target not reached Out of 51 courses, only 15 courses are contributing to this PO5. Out of 15, 6 courses are above PO attainment value of 70%.  exposed to modern tool usage in the respective exposed to modern tools that are available to carry, PAL, PBL, etc.  easoning informed by the contextual knowledge to cultural issues and the consequent responsibilities	
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mo act	70  Action 1: Gralabs/subjects. Action 2: Gralabs/subjects. Action 3: Studout their mini presses societal, hea	age: Create, select, as and IT tools including and IT tools including and acceptance of the limited and acceptance of the limited and acceptance of the limited acceptance of	Target not reached Out of 51 courses, only 15 courses are contributing to this PO5. Out of 15, 6 courses are above PO attainment value of 70%.  exposed to modern tool usage in the respective exposed to modern tools that are available to carry, PAL, PBL, etc.  easoning informed by the contextual knowledge to cultural issues and the consequent responsibilities	



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			above PO attainment value of 65%.
	Action 1: Grad	luates should be exp	posed to the primary aspects of safety, health, and
	societal issues in respective courses/labs.		
		-	raged to participate in attending co-curricular and
	extracurricular	activities.	
solı		l and environmental	derstand the impact of the professional engineering contexts, and demonstrate the knowledge of, and
1100	a for sustamable	development.	
	Target not reached		
	70	65.87	Out of 51 courses, only 9 courses are
	70	03.07	contributing to this PO7. Out of 9, 7 courses are
			above PO attainment value of 70%.
			ade aware of the connection of Civil Engineering
		the environment in	day-to-day life and the necessity of sustainable
	development. <b>Action 2:</b> Courses concerned to environmental and sustainability are recommended to be included for forthcoming curriculum.		
	be included for	iortheoming curricul	um.
	E <b>thics</b> : Apply et	hical principles and	commit to professional ethics and responsibilities
		ngineering practice.	commit to professional etines and responsibilities
arr		ismeering practice.	
			Target not reached
	65	62.83	Out of 51 courses, only 8 courses are
	0.5	02.03	contributing to this PO8. Out of 8, 6 courses are
			above PO attainment value of 65%.
			osed to the significance of maintaining professiona
			heir professional career.
		=	part ethical attitude and behavior among all the
	students by the	e faculty.	
			n effectively as an individual, and as a member or
eader.	in diverse teams	, and in multidisciplii	nary settings
	T	T	
			Target not reached
	70	62.12	Out of 51 courses, only 17 courses are
			contributing to this PO9. Out of 17, 8 courses are
	Action 1: O	1,,,4,,,,,1,,,,1,1,1,1,1,1,1,1,1,1,1,1,	above PO attainment value of 70%.
			shlighted the significance of team work, individual
			civil engineering related lab/field works in all the
	concerned subj	CUIS.	
PO 10	· Communicatio	n: Communicate off	ectively on complex engineering activities with the
			large, such as, being able to comprehend and write
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effective reports and design documentation, make effective presentations, and give and receive



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	70	65.00	Target not reached Out of 51 courses, only 18 courses are contributing to this PO10. Out of 18, 8 courses are above PO attainment value of 70%.
Action 1: Graduates should be apprised the need of articulation skills that are necessary for a successful professional growth.  Action2: Change the delivery content like involving interaction/group discussion to improve the communication skill of Action 3: Soft skill training is imparted to students to enhance communication or technical talks through group discussion, prolearning outcomes.		ssful professional growth.  content like involving more students is rove the communication skill of the students.  parted to students to enhance various aspects of	
eng	ineering and ma	nagement principles	Demonstrate knowledge and understanding of th and apply these to one's own work, as a membe and in multidisciplinary environments.
	65	69.13	Target reached Out of 51 courses, only 9 courses ar contributing to this PO11. Out of 9, 8 courses ar above PO attainment value of 65%.
	<ul> <li>Action 1: Graduates should be taught the necessity of applying engineering management principles to successfully complete the civil engineering projects or tain their professional career.</li> <li>Action 2: Involve in the internship activities based on the work, both as a men and leader in a team, to acquire knowledge of project management principles finance.</li> <li>Action 3: Improve the teaching-learning process for the identified courses.</li> <li>Action 4: Students are encouraged to take up multidisciplinary projects.</li> </ul>		
eng			ed for, and have the preparation and ability to ning in the broadest context of technological
	70	65.37	Target not reached Out of 51 courses, only 46 courses ar contributing to this PO12. Out of 46, 28 course are above PO attainment value of 70%.
	the graduates professional de	to get updated in t mand with ease. ociation Activities a	ould highlight the need for continuous learning be their respective subject domains and handle the re-conducted to develop critical thinking. Selection



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			nnical training/GATE classes for the graduates to r education and lifelong learning.
PSO 1		ssary skill set to and ls related to civil eng	alyze and design various systems using analytical ineering.
	70	65.81	Target not reached Out of 51 courses, only 35 courses are contributing to this PSO1. Out of 35, 21 courses are above PO attainment value of 70%.
	<b>Action 1:</b> Technical knowledge in the subject domains, analytical abilities in solving complicated/real-life problems by the graduates should be periodically assessed by the faculty members through their regular evaluation and monitoring.		
	<b>SO 2</b> : Possesses ability to plan, examine and analyze the various laboratory tests required for the professional demands.		
	70	62.85	Out of 51 courses, only 12 courses are contributing to this PSO2. Out of 12, 6 courses are above PO attainment value of 70%.
	<b>Action 1:</b> Graduates should be given rigorous training in performing/understanding the laboratory tests and analyzing the results through additional exercises. The faculty members should monitor their involvement and performance and guide them in this regard.		
PSO 3	<b>PSO 3:</b> Possesses basic technical skills to pursue higher studies and professional practice in civil engineering domain.		
	70	65.57	Target not reached Out of 51 courses, only 39 courses are contributing to this PSO3. Out of 39, 22 courses are above PO attainment value of 70%.
	<b>Action 1:</b> Graduates should be counselled the opportunities for higher studies and career development in their respective domains. They should be guided by the faculty members to improve their technical and communication skills in this regard.		

Co-Ordinator

Head of the Department