

THIAGARAJAR COLLEGE OF ENGINEERING  
DEPARTMENT OF CIVIL ENGINEERING

Faculty Feedback Analysis Report

Academic Year 2022-23

- All the faculty members have opined that relevance of the course to industry and societal needs, appropriateness of course content to course outcomes and contribution of course content to design thinking and critical analysis are very good.
- Innovative teaching and learning methods like active learning, collaborative learning through software, real time case study based experiential learning, Audio enabled lecture notes, animated PPT's, field visits were adopted by faculty for effective learning.
- Modern Teaching tools (ICT tools) like Google classroom, Google forms, Kahoot, Quiz, think pair share, virtual lab, cloud connected Bentley BIM software (Open Building Designer- Connect edition) for the lab classes were used by faculty members for Increased classroom productivity, critical thinking and collaborative work among students.
- Innovative Assessment methods like experiential learning through case study was used to assess assignments at HoT's, online coding, concept test, review reports, mini projects were followed by faculty for enhancing the student's engagement, motivation and improved academic performance.
- Rain water harvesting can be removed and Flood routing can be added in the syllabus for the course "Engineering Hydrology" offered in B.E Civil Engineering Program.
- Productivity Measurement System (PMS) can be included in the syllabus for the course "Lean Construction" offered in Construction Engineering and Management Program.
- Separate topic on personal finance can be added in the course "Finance for Engineers" offered in PG Program.
- Detailed calculations of Dead, live, wind loads using IS875 and topic on Framed structure and tubular structure can be removed from the elective course "Design of Steel Structures" offered in B.E Civil Engineering Program.
- Faculty also have suggested that Value added course on finite element software shall be given.

**Action Plan:**

All the suggestions/comments expressed by the faculty members would be taken up for discussion in the subsequent Board of Studies meeting and appropriate corrections will be carried out in the course content.



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**THIAGARAJAR COLLEGE OF ENGINEERING  
DEPARTMENT OF CIVIL ENGINEERING**

**Faculty Feedback Analysis Report  
Academic Year 2021-22**

Sl.No.	Course Name	Course Designer/Course handling faculty	Topics to be added/to be removed/to be modified	Justification
1.	18CERFO Industrial Waste Water Management	Dr.V.Ravisankar	Introduction module and pollution prevention modules can be combined instead state of the art technologies in industrial sectors can be added	Both are generic contents and the pollution prevention concepts can be incorporated in case studies with flow sheets
2.	18CE660 Design of Reinforced Concrete Elements	Dr. M. C. Sundarraja Mr.R.Indrajith Krishnan	1. Analysis and design of beams and slabs by working stress method to be added. 2. Development of spreadsheets for the design of structural elements by limit state method to be added	1. Since, still working stress method is accepted in India for special structures such as RC bridges, water tanks and chimneys. 2. Stakeholders are expected by the Industry, the knowledge of preparing spreadsheets for the design of structural elements.
3.	18CEPT0 Engineering Hydrology	Mr. M. Ramasamy	Module No.4.3 and 4.4 will have to be removed and in the Module 3 Flood Routing will have to be added	Since the reason for removal of 4.3 Introduction to Climate Change and its effects on Hydrological process and 4.4 Application of software in hydrology, is not included in the syllabus of TNPSC, IES and GATE examination and Flood Routing is included in all these examination

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**THIAGARAJAR COLLEGE OF ENGINEERING  
DEPARTMENT OF CIVIL ENGINEERING  
B.E CIVIL ENGINEERING**

**Faculty Feedback Analysis Report  
Academic Year 2020-21**

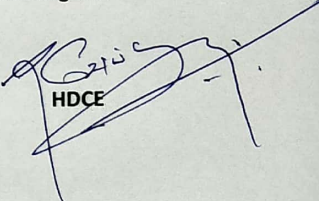
Sl.No.	Course Name	Course Designer	Topics to be added/to be removed/to be modified	Justification
1.	18CE510	Dr. D. Brindha	CO1: Content on tests and specification for mineral and chemical admixtures can be included	Modern day concretes are mostly produced with the admixture. The addition of this topic would help the students to select the admixtures for specific applications.
			CO5: Introduction to Service Life Estimation can be included	Will enable to know the process involved in service life estimation of new and existing concrete structures.
			CO6: The topic on fibre reinforced concrete can be included	In practical application fibre reinforced concrete is most used for industrial floorings. The inclusion of this topic would benefit the students
2.	18CE260 Building Materials and Technology	Dr.G.Chitra Mr.S.Kannan Mr. D. Rajkumar	CO3: Topic on masonry design requirements as per IS1905 can be included	Will help the students to select the suitable masonry units for specific applications
			CO2: Topics on Plastics and Polymers in construction, admixture paints, sealants and adhesives; Water proofing materials, Glass and FRP can be included. Loads on buildings as per IS 875, IS 1893 can be included	These modern materials have large usage in field applications.
			Modern building materials	As these materials involved in modern construction and the materials offer significant potential to minimize the construction waste and energy and also construction time.
3.	18 SEGBO Finance for Engineers	Dr.V.Ravisankar	Separate heading on Personal finance can be added.	--

4.	18CE560 Design of Steel Elements	Dr.S.ArulMary Ms.G.Celine Reena	Weightage for CO1 & CO2 need to be modified.	CO2 – To address Apply level in evaluation the weightage need to be revised.
5.	18CERN0 Design of Steel Structures	Dr.S.ArulMary Ms.G.Celine Reena	Weightage for CO3 & CO4 need to be modified.	CO3 – To address Apply level in evaluation the weightage need to be revised.
6.	18CE490 Project Management	Dr.G.Chitra & Ms. T. Karthigaipriya	<ul style="list-style-type: none"> <li>• Topic on Earned Value Management under CO5 to be removed</li> <li>• Content related to risk and communication management under CO5 to be handled briefly only</li> </ul>	<ul style="list-style-type: none"> <li>• EVM is a complex concept at IV semester level</li> <li>• Owing to voluminous content</li> </ul>
7.	18CE620 Highway and Railway Engineering	Dr. R. Velkennedy	<ul style="list-style-type: none"> <li>• The railway engineering COs can be removed and moved to another subject which can be Railways, airport and docks. The current subject can be called Highway and Pavement engineering</li> </ul>	<ul style="list-style-type: none"> <li>• Since the syllabus is extensive, the railway engineering Portion can be removed</li> </ul>
8.	18ES690 Engineering Design Project	Dr. S. J. Thiruvengadam Dr.S.Saravanaperumaal Dr.C. Jeyamala	More details on learning resources to be included in syllabus	Not much clarity on learning resources
9.	18CE530- Accounting and Finance	Dr.R.Sivasankaran Mr.S.Rajkumar	CO3: Problems on Master budget can be added	On the completion of the course student can have a flavor of preparing master budget once he enters industry.
			CO5: Graphical based working capital can be added	Primary working capital and Temporary working capital for the company needs to be identified and based on fluctuation value of money concept of working capital can be clearly identified.
10.	18CE340 Water Supply Engineering	Dr.T.VelRajan Ms.K.Keerthy	CO1 & CO2 can be joined together. CO5 can be split into 2 COs	<ul style="list-style-type: none"> <li>• CO2 contains minimum topics to cover. So, it can be joined together with CO1.</li> <li>• CO5 treatment is the heart of the course and scope to teach more topics. So it can be split into 2COs.</li> </ul>

11.	18CE440 Wastewater Engineering	Dr.T.VelRajan Ms.K.Keerthy	CO2 and CO3 can be joined together CO5 can be split into 2 COs	<ul style="list-style-type: none"> <li>• CO2 &amp; CO3 are calculation of generation of storm and domestic waste water. So, they can be in one CO.</li> <li>• CO5 contains more topics to cover and also, they are very much important to the course</li> </ul>
12.	18CE330 – Fluid Mechanics	Dr.T.Baskaran & Mr.M.Ramasamy	Pressure on curved surfaces	To cater the need of IES and GATE syllabus
13.	18CEPTO- Engineering Hydrology	Dr.T.Baskaran & Mr.M.Ramasamy	Flood Routing	It is added in the revised and recent syllabus of GATE and IES

**Action Plan:**

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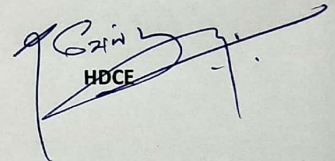
THIAGARAJAR COLLEGE OF ENGINEERING  
DEPARTMENT OF CIVIL ENGINEERING  
M.E STRUCTURAL ENGINEERING

Faculty Feedback Analysis Report  
Academic Year 2020-21

Sl.No.	Course Name	Course Designer	Topics to be added/to be removed/to be modified	Justification
1.	18SEPQ0 STRUCTURAL STEEL DESIGN	Dr.S.ArulMary Ms.G.Celine Reena	CO4 & CO5 need to be replaced by Plate girder design and members subjected to combined effects	CO4 & CO5 is included in 18SEPM0- Industrial Structures
2.	18SE140 DYNAMCIS OF STRUCTURES	Dr.S.ArulMary Dr.R.Ponnudurai	CO5 to be removed. MDOF - Modal analysis can be incorporated.	CO5 is already addressed in 18SEPQ0 – Aseismic Design of Structures

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DEPARTMENT OF CIVIL ENGINEERING  
M.E ENVIRONMENTAL ENGINEERING**

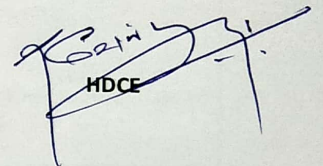
**Faculty Feedback Analysis Report  
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1.	18 EN140 Solid and Hazardous waste Management	Dr.V.Ravisankar	<p style="text-align: center;"><b>Topics to be added</b></p> <p>1) Mainstreaming circularity in waste management can be added. 2) Good practices in entrepreneurship and innovation in MSWM 3) Best practices in waste management</p> <p style="text-align: center;"><b>Topics to be Removed</b></p> <p>1) Optimizing waste allocation 2) Handling and segregation of waste at source</p> <p style="text-align: center;"><b>Topics to be Modified</b></p> <p>1) Treatment of biomedical Waste can be modified into Treatment of special waste, which comprises plastic waste management, C&amp;D Waste Management and e- waste management for two lecture hours. 2) Recycling and Reuse can be added with source reduction of waste 3) Health consideration in the context of operation of facilities can be modified in to socio economic aspects of waste management. 4) Leachate and landfill gas management can be added with Landfill bio reactor. 5) Site selection for landfill can be added with Landfill classification, types and methods. 6) Elements of integrated waste management , roles of stakeholders and PPP for waste management can be modified into Financing mechanism in IMSWM including circular financing And Public private partnership in IMSWM.</p>	<p>New concept of Circular economy is the mantra nowadays Swatch bharat mission -1 success stories can be shared to the students.</p> <p>Addressed in collection analysis</p> <p>Addressed in material separation and processing technology</p> <p>To accommodate the lecture hours some topics are Combined</p>

2.	18ENPU0 Transport of Water and Wastewater	Dr.T.VelRajan Ms.K.Keerthy	Software application part can be included CO3	After studying the concepts exploring the software knowledge helps them for better understanding and work further, rather than teaching as a last module.
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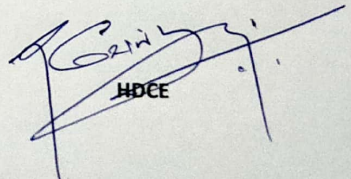
**THIAGARAJAR COLLEGE OF ENGINEERING  
DEPARTMENT OF CIVIL ENGINEERING  
M.E INFRASTRUCTURE ENGINEERING AND MANAGEMENT**

**Faculty Feedback Analysis Report  
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1.	18IMPDO Construction Equipment Management	Dr.G.Chitra & Ms. T. Karthigaipriya	<ul style="list-style-type: none"> <li>• Brief history only to be addressed related to Peurifoy's method and Phelps' Method of optimizing productivity under CO4</li> <li>• Only brief concept of Linear scheduling method addressed under CO5</li> <li>• Development of resource package to be removed under CO5</li> </ul>	<ul style="list-style-type: none"> <li>• Since they are all primitive techniques only</li> <li>• Since not very appropriate to this CO5</li> </ul>
2.	18IM140 Quantitative Methods in Management	Dr.G.Chitra	<ul style="list-style-type: none"> <li>• Solution of LPP using excel sheets to be included</li> </ul>	<ul style="list-style-type: none"> <li>• In touch with latest technological trends</li> </ul>
3.	18IMPA0 Contracts and Arbitration	Dr. G.Chitra & Mr.M.A.Ravindharraja	<ul style="list-style-type: none"> <li>• Guest lectures by field experts on topics related to case studies to be introduced</li> </ul>	<ul style="list-style-type: none"> <li>• For better understanding of concept through real time case studies</li> </ul>
4.	18IM260 Project Planning and Control	Dr. G.Chitra	<ul style="list-style-type: none"> <li>• CO11 can be removed</li> </ul>	<ul style="list-style-type: none"> <li>• Since practical part is supported with Primavera, PERT cannot be done with this software</li> </ul>

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