THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI - 625 015
(A Govt. Aided, Autonomous Institution affiliated to Anna University)

DEPARTMENT OF ARCHITECTURE

Ref: Arch/TLP/Feedback/Staff/1 12.06.2019

Report on staff feedback

Suggestions given:

Following suggestions are given by the course instructor for the Academic year 2018-2019

- The contents of all the courses correspond to Course outcomes (COs) at intermediate order and certain subjects have Higher order thinking skills with appropriate distribution of their cognitive levels. Higher order thinking skills have to be reinforced for technology based subjects like Architectural Design
- Faculty members also mentioned the challenging topics of their respective subjects viz., 15AR420, 15AR520 requires guest lectures by consultants and industrial professionals

Addition/removal/suggestion on course content

- 15ARPN0 – Axonometric projection could be removed since orthographic projection is included

Action taken:

- All the suggestions/comments expressed by the faculty members were taken for discussion in the Board of studies meeting and appropriate corrections were carried out. The course outcomes addressing the higher order thinking skills were carried out for technology based subjects like 15AR441, 15AR541, 15AR631, 15AR831 and 15AR931.
- Lectures by consultants of services like water supply, electrical & HVAC and site visits were arranged for the staff members to improve the practical knowledge of the staff members.
- Staff members are also made to attend workshops offered by various institutes and industries to update their technical skills.

S. Chandramathy
TLP

HOD ARCH

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI - 625 015
(A Govt. Aided, Autonomous Institution affiliated to Anna University)

DEPARTMENT OF ARCHITECTURE

Ref: Arch/TLP/Feedback/Staff/1

Report on staff feedback

Suggestions given:

Following suggestions are given by the course instructor for the Academic year 2019-2020

- All the courses are considered as most important and very much relevant to the industrial and societal needs
- The assessment methodologies are carried out by conducting three continuous assessment tests and three assignments. These assignments focus on the course outcomes at higher cognitive levels with complex problems, quiz and group discussions.

Innovative teaching and learning methods used by Architecture faculty are

- Collaborative teaching with seminars for peer learning, Active learning with in-class problem solving. Peer learning through group projects, case study of real world buildings, Active discussions in class and critical analysis of architectural examples, Hands on Model Making, Team Work, Product Making, Field Visit, and Full Scale Physical Mode Making Tool.

Innovative Assessment methods followed to measure Course Outcomes at higher levels

- Seminars, mini project presentations, Project design and documentation submitted as drawings, physical models, rendered images and walkthroughs use of virtual reality, Mini projects were given to apply the studied techniques as design strategies for a given scenario

  Collection of sample materials - Students were asked to visit the shop and to interact with the local mason or labor. Were asked to collect the material samples and to get the information of the cost, size, color of the materials and the practical issues involved in the process of building construction

Modern Teaching tools(ICT tools) used

- Google classrooms (LMS), Video lecturing, whats app, Google Meet, Moodle, Pre recorded Demos, online quizzes, Moodle (LMS)

Addition/removal/suggestion on course content

- 15AR820 – Landscape Design – the subject could be changed as theory to theory cum studio subject

Action taken:

- Above suggestions were taken for revamping the courses for the academic year 2020-21
- Collaborative joint studio was conducted for M.Arch Program in partnership with SPA, Bhopal.

S. chandramathy

TLP

HOD ARCH

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI -625015
DEPARTMENT OF CIVIL ENGINEERING
B.E CIVIL ENGINEERING
Faculty Feedback Analysis
Academic Year 2018-2019

Sl. No	Course Name	Course Designer	Topics Added/Removed / New Course	Justification
1	18CE270-Survey lab	Dr.K.Sudalaimani Dr.T.Baskaran Dr.A.Rajasekar	• Problems in chain survey, compass survey and plane table survey have to be removed • Experiment on Total station needs to be included	• 14CE280-Survey lab I and 14CE390-Survey lab II will be clubbed together and 18CE270-Survey lab course will be formulated. • As total station has replaced all the equipments used for horizontal and vertical distances, more emphasis will be given to applications of total station removing old equipments used for the purpose. Further, knowledge on total station would improve employment potential.

Action Plan:

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

HDCE

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI -625015
DEPARTMENT OF CIVIL ENGINEERING
B.E CIVIL ENGINEERING
Faculty Feedback Analysis
Academic Year 2019-2020

Sl. No	Course Name	Course Designer	Topics Added/Removed / New Course	Justification
1	Computer Aided Drafting Lab - 18CE370	Dr.S.Arul Mary Mrs. G.Celine Reena	Industrial Structure – cross sectional details and 3-D modelling has to be Introduced.	To meet industry requirement & to help students in doing their project work
2	Design Of Steel Elements – 18CE560	Dr.S.Arul Mary Mrs. G.Celine Reena	• Theory cum lab has to be converted as Theory course. • Masonry and Timber topics are to be removed • Plastic analysis topic has to be introduced.	Due to the vast content in syllabus, specified topics have to be removed and can be introduced as an one credit course.
3	18CE710-Irrigation and Water Resources Engineering	Dr. T. Baskaran Dr. S. Chandran	• Hydrological cycle and its importance • Water conservation & harvesting techniques • River linking • Spillways & canal falls • Tank irrigation • Automation of irrigation systems	The said topics will be included in this course to meet out the requirement of GATE, IES, TNPSC and most of the competitive exams. So the credit for this subject will be increased from 2 to 3.
4	18CE720-Construction Management	Dr.G.Chitra Mr.S.Kannan	EPC contracts has to be included	Owing to the need and importance of the topic in the current technological trend
5	18CERDO-Anti-terrorism Design of Structures	D.Rajkumar	New Elective Course to be introduced	In recent years, the bomb blast attack on civil infrastructure is increased. According to Global Terrorism Index, India is ranked as 7th in threat

				under explosive attack. This made us think to protect public infrastructure under extremist attack. Therefore, it is essential to acquire knowledge on designing a building and its members subjected to blast load. Such knowledge on blast resistant approaches is needed for Civil Engineering students and hence a new course on "Anti-terrorism Design of Structures" can be introduced.
6	18CERK0 - Material Procurement and Management	Dr.G.Chitra	New Elective Course to be introduced	To meet the industry requirement
7	18CERL0- Contracts and Arbitration	Dr.G.Chitra	New Elective Course to be introduced	To meet the industry requirement
8	18CEPU0 – Airways and Waterways	Dr.R.Velkennedy	New Elective Course to be introduced	Railways, Airways and waterways is already a core subject. In the new 2018 syllabus since there is limitation in credits for core courses, this course 18CEPU0 will be introduced as an elective.
9	18CEPB0 - Dynamics of Structures and Earthquake Engineering	Dr.R.Ponnudurai Mr. R.Indirajithkrishnan	New Elective Course to be introduced	As per Govt of India MHRD Guidelines under National Programme on Earth quake Engineering Education program, awareness among the people against Earthquake Disaster needs to be initiated specially among the students community. In this regard preparedness and mitigation measures for the Earthquake disaster will be been included in the UG curriculum as a New course
10	Computational Methods In Structural Analysis - 18CEPV0	Dr.S.Arul Mary Mrs. G.Celine Reena	New Elective Course to be introduced	Considering the importance of the topic for research work and expanded scope in analysis.
11	18CEPNO-Ground Water Management	Dr. S. Chandran Dr.V. RaviSankar	New Elective Course to be introduced	In the background of rapid extraction of Ground water all over the country, the management of Groundwater is the need of the hour. This coursework will discuss about the framework of groundwater management and investigate the

				technical and managerial issues encountered by various stakeholders like Industries, Authorities and general public.
12	18CEPPO-Waste Management	Dr. S. Chandran Dr.V. RaviSankar	New Elective Course to be introduced	In the context of various measures taken by the Government of India, to accelerate the efforts to achieve universal sanitation coverage, this coursework will empower the knowledge on various waste management Techniques for the safe management of waste generated by the community.

Action Plan:

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

HDCE

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI -625015
DEPARTMENT OF CIVIL ENGINEERING
M.E. STRUCTURAL ENGINEERING
Faculty Feedback Analysis
Academic Year 2018-2019

S.No.	Course Code	Course Name	Feedback
1	15SE170	Structural Engineering Laboratory	Need to include expected attainment and Proficiency.
			Need improvement on CO-PO mapping for better course assessment
2	15SE210	Dynamics of structures	The entire syllabus needs to be reframed by referring to the syllabus of IIT Roorkee to improve the course content
3	15SE220	Structural Steel Design	As per the new curriculum this course has to be shifted to elective course in this program
			Need to include expected attainment and Proficiency.
			Need improvement on CO-PO mapping for better course assessment
			The introduction to torsion does not render any design skill to the students. It may be discussed in detail in some other course
4	15SE310	Design of Steel Concrete Composite Structures	As per the new curriculum this course has to be shifted to elective course in this program
			Need to include expected attainment and Proficiency.
			Need improvement on CO-PO mapping for better course assessment
5	15SEPA0	Aseismic Design of Structures	Need to include expected attainment and Proficiency.
			Need improvement on CO-PO mapping for better course assessment
6	15SEPC0	Computational Methods in Structural analysis	Need to include expected attainment and Proficiency.
			Need improvement on CO-PO mapping for better course assessment
7	15SEPL0	Industrial Structures	Need to include expected attainment and Proficiency.
			Need improvement on CO-PO mapping for better course assessment
8	15SEPG0	Durability of Concrete Structures	It was found that many of the contents of this course match with 15SE160-Forensic Engineering and Rehabilitation of Structures and hence the repetitive course content are to be removed from the elective courses

9	15SEPQ0	Theory of Plates	The course outcome needs to be increased from CO4 to CO5.The CO-PO mapping and assessment pattern need modifications. The Category of course can remain unchanged.
10	15SEPS0	Finite Element Method in Structural Engineering	The CO-PO mapping needs to be modified. To meet the industrial needs, modelling of structural elements using finite element analysis was found to be more vital for students aiming research or higher education. Hence this course is suggested to be considered as core course instead of being in elective.
11	15SEPR0	Computer Aided Design	As per the new curriculum this course has to be shifted to elective course in this program
12	15SE150	Prestressed Concrete	Losses and Deflection of prestressed concrete beam should be considered as independent course outcome. In earlier it should be merged with analysis of PSC beam (CO1)
13	15SE130	Theory of Elasticity and Plasticity	The scope of thick cylinder need not to be separate course outcome, it should be merged with CO2 -Two dimensional problem
14	15SE140	Structural Mechanics	As per New AICTE curriculum, core course has to be changed as program elective
15	15SE120	Analysis and Design of Concrete Structures	A complete change in the assessment pattern has to be carried out
			The syllabus content needs to be updated and some topics are to be removed as the content was included in 18SE170- Forensic Engg and Rehabilitation of Structures
16	15SEPH0	Experimental Techniques and Instrumentation	The course has to be changed from Theory to Theory-Cum practical to enable the students to attain practical skills on experimentation and measuring instruments
			Calibration has to be included in practical component to make students known about its importance and influence on the experimental results
17	15SE340	Project - I	The course name has to be changed as Dissertation-I(18SE380) and Dissertation-II (18SE480) as per the nomenclature given in AICTE model syllabus guidelines
	15SE410	Project - II	
18	15SE160	ForensicEngg. andRehabilitationof structures (18SE160)	The course titled "forensic and rehabilitation of structure" is suggested to change as a theory cum practical. Because, the course deals with investigation of collapsed structures, repairing and strengthening of aged structures. Such knowledge and experience can be attained by visiting an aged building, monuments, collapsed site to investigating the performance of the structure, to analyse the durability of the structure, to determine the causes of failure etc. Hence this course can be offered as theory cum practical course. In addition, separate COs can be formulated for theory and practical works. In assessment pattern, the blooms level "evaluate" can be reduced to "analyze". The number of CO's can be increased from four to five for theory content.

19	15SEPF0	Disaster Mitigation and Management (Audit course)	The course name can be mentioned in prerequisite. Blooms level, expected proficiency grade shall be incorporated for respective Cos. The course outcome can be rephrased/modified/changed. CO-PO Mapping can be done for PO1 to PO11 and also for PSO1 and PSO2. The assessment pattern can able to reach up to high level i.e create level if possible. Syllabus is satisfied and no change in the content is required. 04 credits can be reduced to 03 credits and accordingly lecture schedule can be prepared.
20	New course	Blast resistant design of structures	In recent years, the bomb blast attack on civil infrastructure is increased. According to Global Terrorism Index, India is ranked as 7th in threat under explosive attack. This made us think to protect public infrastructure under extremist attack. Therefore it is essential to acquire knowledge on designing a building and its members subjected to blast load. Such knowledge on blast resistant approaches is indeed for the students and hence a new course on "Blast resistant design of structures" can be introduced to M.E structural Engineering students. The students of M.E structural Engineering can also pursue their doctoral research in similar research areas where there exist a lot of research problems.
21	18SEPG0	Creep and Fatigue Behaviour of Materials	The course has to be included as an elective to enable the students to have an insight on failure mechanisms due to fatigue and creep. The contents of the course will help students in assessing the behaviour of existing structures

Action Plan:

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

HDCE

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI -625015
DEPARTMENT OF CIVIL ENGINEERING
M.E. STRUCTURAL ENGINEERING
Faculty Feedback Analysis
Academic Year 2020-2021

S.No	Course Code	Course Name	Feedback
1	Schedule of courses		As per the recommendations of AICTE new curriculum for PG program, core courses and one laboratory courses were offered in the first semester with total credit of 17, then the elective courses, open elective, common core, audit course, mini project were offered in second semester covering a credit of 21+audit course. In third semester one elective and open elective and dissertation-1 with the total credit of 15 and final semester dissertation-2 with the credit of 15. In the second semester the academic load was found to be very high than the other semesters. Hence request will be made to redistribute the credits in first three semesters in order to have even distribution of academic load for the benefit of students
2	18SE170	Structural Engineering Laboratory	Most of the experiments were on the testing of concrete properties, which was already exposed to the target students in their undergraduate curriculum who have passed out after 2017 Anna University regulations and from TCE. Hence to avoid repetition, the experiments on concrete properties might be removed. It was suggested that the entire syllabus may be reframed to address analysis and design of structures using any commercial software. Since our department has a MoU with BIM-BENTLEY, this lab exercise may be conducted using the STAAD Pro connect edition in the curriculum. Also, to validate the software results, exposure on the spreadsheet development for any design check is also essential.

Action Plan:

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

HDCE

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI -625015
DEPARTMENT OF CIVIL ENGINEERING
M.E. ENVIRONMENTAL ENGINEERING
Faculty Feedback Analysis
Academic Year 2018-2019

S.No	Course Code	Course Name	Course Designers	Topics added/removed (or) New Course	Justification
1.	18EN110	Applied statistics and optimization	Mrs.Sivananthasaraswathy	Correlation and regression analysis topic has to be removed.	It is covered in the basics of probability and statistics in the Undergraduate syllabus.
2.	18EN120	Environmental Chemistry and Microbiology	Dr.Balaji	14EN120 Environmental chemistry and 14EN130 Environmental Microbiology is to be combined	-
3.	18EN160	Physico-chemical treatment processes	Dr.T.VelRajan	This course has been identified as theory cum practical course.	Identified as Theory cum practical course under CDIO framework. COs are derived exclusively for theory & practical part and accordingly exercises for practical parts are identified.
4.	18EN130	Air pollution control Engineering and Management	Dr.R.K.C.Jey Kumar	Content of COs is to be slightly modified, to match with CDIO framework.	Course outcomes were framed newly in order to extract the exact outcome of CDIO
5.	18EN140	Solid and Hazardous waste management	Dr.V.Ravisankar	Municipal and hazardous waste is to be explained separately. A managerial and technical issue in functional elements is to be addressed.	Municipal solid waste and hazardous waste are to be addressed in separate units. In functional elements – the MSW and hazardous waste the managerial and technical issues were intertwined and addressed sequentially.
6.	18EN170	Environmental Engineering Laboratory I	Dr.T.VelRajan Dr.V.Ravisankar	Number of Experiments is to be reduced.	Since two lab courses has been introduced, the title and content of the course underwent several modifications

7.	18ENPU0	Transport of water and wastewater	Dr.T.VelRajan Ms.K.Keerthy	Converted as elective paper	-
8.	18EN210	Biological Treatment process	Dr.R.K.C.Jey Kumar	Content of COs is to be slightly modified, to match with CDIO framework.	Course outcomes were framed newly in order to extract the exact outcome of CDIO
9.	18EN260	Environmental Impact and Risk Assessment	Dr.V.Ravisankar	Converted as Theory cum practical course.	Identified as Theory cum practical course under CDIO framework. COs are derived exclusively for theory & practical part and accordingly exercises for practical parts are identified.
10.	18EN270	Environmental Systems Laboratory	Dr.V.Ravisankar Dr.T.VelRajan	Newly introduced course	Advanced research level instruments and experimentation is to be introduced for PG students.
11.	18ENPA0	Industrial Wastewater Management	Dr.R.K.C.JeyKumar	Content of COs is to be slightly modified, to match with CDIO framework.	Course outcomes were framed newly in order to extract the exact outcome of CDIO
12.	18ENPB0	Environmental policies and Legislations	Dr.V.Ravisankar	International Environmental law is to be addressed with specific landmark judgments	In order to know the exact application of Environmental Law.
13.	18ENPC0	Environmental Systems Analysis	Dr.R.K.C.Jey Kumar Ms.S.Sivasangari	Content of COs is to be slightly modified, to match with CDIO framework.	Course outcomes were framed newly in order to extract the exact outcome of CDIO
14.	18ENPD0	Occupational Health and Industrial safety	Dr.V.Ravisankar	Hazard and risk management is to be introduced. Health and safety management is to be introduced.	Since the course topic is modified few new topics is to be introduced.
15.	18ENPE0	Environmental Management system and Auditing	Dr.V.Ravisankar	Life Cycle Assessment topic is to be removed and application case studies is to be introduced.	Some case studies related to Environmental management system and auditing is to be addressed.
16.	18ENPF0	Climate change and Adaptation	Dr.S.Chandran	CO content has been modified	Based on the national action plan on climate change the CO content was modified.

17.	18ENPG0	Environmental Biotechnology	Dr.R.K.C.Jey Kumar	Content of COs is to be slightly modified, to match with CDIO framework.	Course outcomes were framed newly in order to extract the exact outcome of CDIO
18.	18ENPH0	Environmental Remote sensing	Dr.R.K.C.Jey Kumar	Content of COs is to be slightly modified, to match with CDIO framework.	Course outcomes were framed newly in order to extract the exact outcome of CDIO
19.	18ENPJ0	Resource and Energy Recovery from waste	Dr.V.Ravisankar	Content of COs is to be slightly modified, to match with CDIO framework.	-
20.	18ENPK0	Surface and Groundwater quality modeling	Dr.R.K.C.Jey Kumar Ms.S.Sivasangari	Content of COs is to be slightly modified, to match with CDIO framework.	Course outcomes were framed newly in order to extract the exact outcome of CDIO
21.	18ENPL0	Fate and transport of contaminants in the Environment	Dr.R.K.C.Jey Kumar Ms.S.Sivasangari	Content of COs is to be slightly modified, to match with CDIO framework.	Course outcomes were framed newly in order to extract the exact outcome of CDIO
22.	18ENPM0	Air quality modeling	Dr.R.K.C.Jey Kumar	Content of COs is to be slightly modified, to match with CDIO framework.	Course outcomes were framed newly in order to extract the exact outcome of CDIO meeting
23.	18ENPN0	Sustainable Management of Urban Ecology	Dr.S.Chandran	Content of COs is to be slightly modified, to match with CDIO framework.	Course outcomes were framed newly in order to extract the exact outcome of CDIO meeting
24.	18ENPP0	Indoor Air quality Management	Dr.R.K.C.Jey Kumar	Newly introduced Elective paper	Course outcomes were framed newly in order to extract the exact outcome of CDIO
25.	18ENPQ0	Sustainable Development and Environment	Dr.S.Chandran Dr.V.Ravisankar	Newly introduced Elective paper	Based on the Sustainable Development Goals it was introduced.
26.	18ENPR0	Environmental Geotechnology	Dr.V.Ravisankar Dr.Sanjay Kumar	Newly introduced Elective paper	-
27.	18ENPS0	Biodegradation and Bioremediation techniques	Dr.S.Chandran	Newly introduced Elective paper	Course work for the pHD scholars.

28.	18ENPT0	Computational Intelligence for hydro systems	Dr.S.Chandran	Newly introduced Elective paper	Course work for the pHD scholars.

Action Plan:

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

HDCE

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI -625015
DEPARTMENT OF CIVIL ENGINEERING
M.E. ENVIRONMENTAL ENGINEERING
Faculty Feedback Analysis
Academic Year 2020-2021

S.No	Course Code	Course Name	Course Designers	Topics added/removed (or) New Course	Justification
1.	18EN161	Physico-chemical treatment system	Dr.T.VelRajan	Title of the paper has been changed, Number of COs and content of COs has been modified	Common Cos for practical and theory part. List of exercises on practical part is given exclusively.
2.	18EN360	Environmental Impact and Risk Assessment	Dr.V.Ravisankar	-	Course is to be shifted to third semester.
3.	18EN171	Environmental Engineering Laboratory	Dr.T.VelRajan Dr.V.Ravisankar	COD experiment is to be included.	Chemical Oxygen Demand is to be added in the experiment list.

Action Plan:

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

HDCE

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI -625015
DEPARTMENT OF CIVIL ENGINEERING
M.E. INFRASTRUCTURE ENGINEERING AND MANAGEMENT
Faculty Feedback Analysis
Academic Year 2018-2019

Sl. No	Course Name	Course Designer	Topics Added/Removed / New Course	Justification
1	Traffic Engineering and Management – 18IM120	Dr.R.Velkennedy	Traffic flow module has to be removed	Due to the vast content in syllabus, specified topic has been removed from theory and introduced in Laboratory
2	Project Formulation & Implementation – 18IM160	Dr.G.Chitra and Ms. T.Karthigaipriya	Theory Course has to be converted as Theory cum lab course, based on industry requirement	To meet industry requirement
3	Traffic Engineering Lab – 18IM170	Dr.R.Velkennedy	Traffic flow module has to be introduced	To help students in doing their project work
4	Project Planning & Control -18IM260	Dr.G.Chitra	Theory Course has to be converted as Theory cum lab course, based on industry requirement	To meet industry requirement
5	Building Information Modelling Laboratory - 18IM270	Dr.G.Chitra and Ms. T.Karthigaipriya	New course to be Introduced	To match industry requirement and help in placement
6	Mini Project – 18IM280	---	New course to be Introduced	To impart communication and research abilities
7	Contracts & Arbitration – 18IMPA0	Dr.G.Chitra	International Çontract Document, World Bank Procedure and Law of Tort has to be introduced	To address the field requirement, new content to be incorporated.
8	Strategic Planning for Infrastructure Projects – 18IMPB0	Dr.V.Ravisankar	Case Studies of Infrastructure projects in India has to be introduced	To address industry requirement and prepare student for better placement
9	Sustainable Development -18IMPH0	Dr.S.Chandran Dr.V.Ravisankar	Strategic approach to sustainability has to be introduced.	Considering the importance of the topic for research work

10	Construction Materials and Technology – 18IMPP0	Dr.G.Chitra Mr.S.Kannan	FRP and reinforced polymers has to be introduced	Based on the current demand, new topic has to be added

Action Plan:

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

HDCE

Thiagarajar College of Engineering, Madurai – 625 015

(A Government Aided ISO 9001 : 2008 Certified Autonomous Institute Affiliated to Anna University)

Department of Computer Science and Engineering

Ref: CSE\Feedback\Faculty\19 - 20

Report on Faculty Feedback

Suggestions given

Following Suggestions are given by the Course Instructors for the Academic Year 2019 – 2020

1. Students can be introduced with Non-relational database systems such as No-SQL, HBase and other related technologies for handling larger size data.
2. Separate courses on Deep Learning, Reinforcement learning can be given to students
3. As analytics is used in different engineering applications, several analytical methods and their applications should be taught to students
4. Advanced topics in algorithms such as randomized algorithms, approximation algorithms can be introduced.
5. Exposure on various computing architectures such as cloud, fog and edge is needed
6. Exposure on different software testing methods and tools should be given to students

Action Taken

Following actions are taken based on the suggestions given by Course Instructors

1. A new course on big data analytics is introduced to cover the big data technologies, streaming data processing.
2. New courses on Deep Learning, Reinforcement learning have been introduced
3. A new course on Data science has been introduced which deals with different types of analytical methods and case studies
4. A new course on algorithmic paradigms is introduced to cover the advanced topics in algorithms
5. An elective course on edge computing is designed to give exposures on different computing platforms.
6. A new course on software testing is introduced covering the testing methods and recent tools.

P. Chl

HDCSE

Thiagarajar College of Engineering, Madurai – 625 015

(A Government Aided ISO 9001 : 2008 Certified Autonomous Institute Affiliated to Anna University)

Department of Computer Science and Engineering

Ref: CSE\Feedback\Faculty\18 - 19

Report on Faculty Feedback

Suggestions given

Following Suggestions are given by the Course Instructors for the Academic Year 2018 – 2019

1. An introduction to 5G architecture and applications can be given
2. A general elective course on virtual reality may be given as it will help the students to go with interdisplinary product/project design
3. Courses on machine learning, artificial intelligence can be given to students during third year which helps them to do projects, paper publications and also for their placements.
4. A course on Project Management is necessary for CS students to design and develop a software project
5. PG elective course on 4G and SDN need to be revisited to cover the concepts of 5G technology and its architecture.
6. A course on Robotics can be given to utilize the expertise and experts in UiPATH company
7. Students may be introduced with the concepts of REST APIs, microservices.

Action Taken

Following actions are taken based on the suggestions given by Course Instructors

1. An elective course on 5G architecture and protocols is introduced
2. A new course on Applications of Virtual Reality is introduced for non-CSE/IT students
3. Artificial Intelligence and its lab course is offered in 6th semester to help the students to do projects and publications.
4. A new course on Project Management is introduced instead of Organizational Behavior Management under Humanities and Social Sciences category
5. 4G and SDN elective course in M.E(CSE) programme has been revised to cover the latest technological trends in communication protocols.
6. A new course on Robotic Process Automation is introduced and the course designer of this course is trained by the UiPATH industry experts.
7. Elective Course on Microservices Architecture is introduced

P. Chk

HDCSE

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI 625015
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
REPORT ON COURSE FEEDBACK BY FACULTY

In ECE department, course feedback for about 163 (139 UG and 24 PG) courses were collected from the respective course faculty members for the academic year 2018-19 and 2019-20.

The feedback points are as follows:

1. Adequacy of time for effective coverage of syllabus:
   - For 14ECRB0 – Computer Vision and Applications, the syllabus has been updated in 2018 curriculum for effective coverage of syllabus.
   - The syllabus for the courses 18EC350 – Microprocessors and Microcontrollers and 18EC220 – Network Theory shall be revised in 2022 next Academic Council.
2. Proficiency level of student in Perquisites
   - 18CN160 – Communication System Engineering
   - 18WT160 – Random Signal Processing

   Planned to conduct bridge course for these courses.
3. Innovative teaching and learning methods used by ECE faculty members are

   Active learning/collaborative learning, Peer coaching, Think-pair-share, Team based Learning, discussion forum, OneNote with graphics tablet, Flipped Classroom, ARCS Model, Field visits, Incidental Learning, Context-Based Learning, Video recording, Group Worksheets, Pear Deck, whiteboard in Google meet, Active learning - Model making, Advertisement based learning, Animated video from internet used for some topics, Journal Review, Worksheets and MATLAB demo

4. Innovative Assessment methods followed to measure Course Outcomes at higher levels

   Concept test, Mini projects, online quiz, online assignment, Online coding, Case study and worksheets, Review reports Software demonstration, MATLAB Coding, Tutorial Sheets, Project demo, Project Expo, Prototype demo, Posters, Seminars, Hardware PCB design, case studies, Journal review and simulation, Pre-Lab and Post Lab Test

5. Modern Teaching tools (ICT tools) used

   Google classroom LMS, Video Recording, Impartus – Classroom video recording, Schoology LMS, e-learning portal, CANVAS LMS, Quiz, Sharing with WhatsAPP, Moodle LMS, Gnomia LMS, Discussion forum, Video Lectures

6. **Course contents that can be removed**
   - Short Time Fourier Transform contents can be removed – 14EC440 Signal Processing
   - Course Outcome 07 can be removed - 14EC620 Wireless Communications
   - Digital Control System module can be removed – 14ECPD0 Control Systems
   - MPEG - Since, image is the focus of this course not video. – 14EC570 Image Processing

     All the above courses have been updated in the 2018 Curriculum

7. **Any other suggestions for improvement in the course content / delivery / assessment1**
   - Incorporating open-source tools is required for the following courses:
     14EC690 – System Design and Testing Lab
     18EC490 - Project Management
     14ECPK0 – Network Security

     14EC690System Design and Testing Lab has been replaced by 18EC660 Digital Communication System Design, which is a Theory cum Practical that covers

the entire Transceiver part and simulation is done using LabVIEW or open-source tools.

Faculty members handling 18EC490 are encouraged to use appropriate open-source tools to enhance the learning.

14ECPK0 Network Security has been replaced by 18ECPJ0 Network and Data Security. Faculty members handling this course are encouraged to use appropriate open-source tools to enhance the learning.

- Restructuring of the courses with Design specification module with functional decomposition is needed.

14EC450 – Engineering by Design

The course is replaced by 18ES690 Engineering Design Project that convers the Design specification module with functional decomposition.

- A complete communication system to be split into modules and combine at last

14EC590 – Analog and Digital Communication Laboratory

This course is replaced by 18EC580 – Analog and Digital Communication Laboratory, that address the complete communication system.

- Restructuring with deep learning algorithms with mini projects is needed.

14ECRB0 – Computer Vision and Applications

This course is replaced by 18ECPA0 - Computer Vision and Applications, that covers the deep learning algorithms.

- Topics are heavy but all are necessary for student's placement

14ECPE0 - Data Structures and Algorithms

This TCP course is reframed as separate 18EC630 – Data Structures and Algorithms Theory course and 18EC670 - Data Structures and Algorithms Laboratory course and hence the topics are concise and relevant.

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THIAGARAJAR COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

TEACHER/FACILITATOR FEEDBACK ANALYSIS
ACEDEMIC YEAR 2018-19

Contribution of most of the course contents to design thinking and critical analysis is found very well. Inadequate time for effective coverage of syllabus is not reported for any course. Content of all the courses corresponding to COs are found appropriate.

Innovative teaching and assessment methods are used in all the courses. Most of the teachers are using ICT tools in addition to PPT. Canvas Instructure - A learning management system (LMS) is used by most of the faculty. Active learning strategies like TPS, Collaborative learning, jig saw method and Peer coaching are also reported. Software simulations (MATLAB, C&C++ etc), Videos from websites and screen casting videos are also used for teaching and learning.

Innovative assessments include mini projects, concept tests, online coding, simulations, logic games, report submission. Regarding Course contents, suggestions are provided in few courses to add the following:

Course	Contents that can be added
Instrumentation Systems	Few sensor used in industries can be included
Power Electronics and Drives Laboratory	Closed loop control of drives
Capstone Course-I	hardware and soft skill content shall be added
Engineering Design	Hardware and soft skill
Microcontrollers	Microcontroller in Arduino kit can be included since most of the projects are implemented using Arduino
HVDC Transmission	Case study can be included- This helps to acquire more practical knowledge for the students
Industrial Electrical and Electronics	Details about Industrial safety equipment can be added
SCADA	Case study can be included
Digital Systems	PLDs may be added - To understand theory and practical application. Some MSI digital ICs and programmable logic devices can be introduced
Project Management	Case studies may be included for better understanding.

Action taken report based on previous analysis:

A one credit course 14EE1Y0 - Embedded Solutions: A System Design Perspective is introduced for UG students.

New laboratory courses are proposed for ME Power System Engineering and M.Tech Control and Instrumentation which utilizes the existing advance equipments in the laboratories.

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THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI 625 015.
Department of Information Technology
Faculty Feedback report

Course Code	Course Name	Faculty review on course contents	Action Taken
14IT230	Digital System Design	1.Shall include Hardware Description Language to the course content	Recommended to consider the same during course revision.
14IT240	Information Systems	Students are unable to visualize the system and subsystem for an enterprise before providing them a big picture of IT domain. Shall introduce a course on Essentials components of IT.	Proposed a course on "Essentials on IT" benchmarking with Anna University.
14IT270	Free Open Source Software: Practice	1. HTML, JAVASCRIPT can be included. 2. Linux Shell Scripts can be given as separate course.	Proposed to include the course content during course revision
14IT340	Data Structures and Algorithms	1. Programming and Arrays, strings can be included in the 1st module. 2.Algorithms can be taken as separate course-,as Time constraint to deliver Algorithms and Time complexity	Proposed to introduce a new course focusing Algorithm Design Data Structures course content shall be revised
14IT420	Java Programming	1.Shall remove JSP from the course content 2.Need to give this course in 3rd semester to make the students participate in "Hackathon Contests"	Proposed to introduce OOPS concepts with Java Programming to 3rd semester
14IT520	Web Technologies	1. Front End and Backend frameworks can be included. JSON, JQuery can be included .Java based web development flavor can be provided.	Course shall be revised in the upcoming BOS, the same shall be

			discussed with the industry expert too.
14IT620	Cloud Computing	Include "Developing cloud application" due to industrial need. 1. Shall remove the following content virtualization concepts, Repeated Cloud characteristics, Google App Engine Topic on Libvirt can be added/modified to the course content,Eucalyptus- Course contents can be removed	
14IT630	Information Storage and Management	1. Many topics are covered as basics in Cloud computing.	Recommended to move the course to elective
14IT370	Software Engineering	1.Project Management topics shall be given as separate course in higher semester. 2.Software Testing and Management can be moved to a separate course 3.Agile Methodologies can be added	Recommended to propose a course onProject management Revise the Software Engineering course content during next BOS .
14IT570	System Administration	Setting up R managing with Cloud architecture can be added to the content.	Recommended to consider during curriculum revision
14IT770	Data Analytics	1.Shall remove topics on Big Data Concepts—few contents repeated from BIG DATA TECHNOLOGIES 2. Add Survival Analytics, Web Analytics,Social Media Analytics algorithms to the course content.	Recommended to consider during curriculum revision
14IT680	Multimedia Lab	1.Instead of exploring on various 2D/3D tools ,the course content	Recommended to

		2.Video creation using openshot /screencast can be included in the content	consider during curriculum revision
14IT690	Cloud Computing Lab	1.Shall include experiments on buzz topics 'Mobile Cloud, Docker container ' 2.Remove experiments on "Eucalyptus'	Recommended to consider during curriculum revision
14IT780	User Interface Design Lab	1. Due to placement activities ,students find it difficult to explore various design tools and apply the best to their concept. 2.Shall move the course to the earlier semester as User Experience is a buzz area in industry	Recommended to combine the Lab with Human Computer Interaction in the earlier semester.
14ITRB0	Parallel Computing(€)	1. Shall include more focusing on different problems to be deployed in different environment. 2.Shall remove course content on Combinational circuit and classification	Course content shall be revised during next BOS
14ITRF0	C# and .NET Framework	1.Shall remove MVC architecture and Design patterns.	Shall be revised during next BOS
14IT670	Mobile App Development	Contents on React native can be added/modified to the course	Shall be revised during next BOS

Recommended to the Course designers to consider the suggestions during curriculum Revamp/Course Revision

HOD/IT

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI

DEPARTMENT OF COMPUTER APPLICATIONS

REPORT ON COURSE FEEDBACK BY FACULTY

ACADEMIC YEAR: 2018-2019, Odd Semester

Course Code	Faculty Review
General Observations	• Availability of text books and other content is satisfactory • ICT tools other than Power point shall be used extensively inside the class • All the courses are found to be important and relevant to the current trend of industry needs and societal needs • Proficiency level of students are found to be high
17CA110	-
17CA120	-
17CA130	Challenging topics- Restoring and Non Restoring Division
17CA140	-
17CA150	More time needed to give hands on training to students and Collaborative learning shall be practiced.
17CA170	-
17CA180	Availability and use of software for the conduct of Laboratory experiments is good -Mini projects shall be assigned as team projects
17CA310	-
17CA320	More time needed to give hands on training to students
17CA330	-
17CA340	Open sources tools can be used for design
17CA350	Course content is satisfactory.
17CA370	-
17CA380	Availability and use of software for the conduct of Laboratory experiments is good -Mini projects shall be assigned as team projects
14CA510	-
14CA520	The course shall be moved as elective as the major part of the course talks about managing business processes. Or the course shall be replaced with any currently needed course.
14CA530	-
14CAPL0	-
14CAPM0	-
14CAPQ0	Real Time Case Studies given for Assessment.
14CAPR0	Availability of text books and other content is satisfactory;Mini projects are given
14CA570	
14CA580	

HODCA

S. Vijayal
Dept. Faculty In-charge

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI – 625 015.

(A Govt.Aided, Autonomous Institution Affiliated to Anna University)

Department of Mechanical Engineering

Faculty Feedback the academic year 2018-19, 2019-2020

Course Code and Name	Course contents that can be added/modified	Course contents that can be removed
14ME330 Metal Joining Processes and Manufacturing Practices	Robotic welding and recent advances in welding	—
14ME430 Machining Processes	Topics related to Unconventional Machining Processes	
14ME450 Production Drawing	--	CAD Drafting part can be removed
14ME480 Machining Practices Lab	Experiments in shaper shall be added to gain experience another domain of machine tool	--
14ME540 Heat and Mass Transfer	-	Boiling and Condensation topics. Syllabus is voluminous.
14ME550 Mechanical Measurements and Metrology	--	Content related to Control and Instrumentation
14ME630 Statistical Quality Control	Topics related to Probability and various distribution	
14ME640 Design of Transmission system	Design Brake	Design of Bearings
14ME691 Mechanical Measurement and Metrology Lab	Determination of moment of inertia, Vibration	Level control
14ME770 Finite Element Analysis	Theory of Elasticity may be added before one dimensional chapter	Some one dimensional problem may removed
14MEGC0 Industrial Robotics	Content related to Artificial intelligence may be added. The content on Dynamics of Manipulator to be modified.	VAL programming shall be removed in the place of content on AI
14MEPA0 Product Design and development	Innovation in product development , IPR search and writing	--
14MEPR0 Assembly Engineering	Modelling in assembly system design shall be introduced.	Selective Assembly shall be removed comparatively needs to more time on its delivery and students' learning. 'Assembly architecture' shall be removed as they are studying the same content in Manufacturing System Automation.
14MGPH0 Design for Manufacture and Assembly	Design for sheet metal where pre-requisite concepts of sheet metal processing lacks with the students.	CAD modeling tools may be added for Design for Assembly to meet the industrial expectations.

Action Taken

Course Instructors and Course designer of above courses are informed about the comments and instructed to take appropriate changes in the syllabus and pass in coming Board of studies meeting

K. Cha

HDME

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI - 625 015

(A Govt. Aided Autonomous Institution Affiliated to Anna University)

Department of Mechatronics Engineering

Report on Course Feedback by Faculty

In Mechatronics Department, course Feedback for the courses have been collected from the respective faculty members for the academic year 2018- 2019,2019-2020,2020-2021. The feedback points are as follows

1. Proficiency level of Student in prerequisites
   - 18MTPB0 – Micro electromechanical Systems
2. Contribution of course content to design thinking and critical analysis:
   - 18MT340 – Thermal Fluid Engineering
3. Innovative Teaching and learning methods used by MECT faculty Members
   - Collaborative learning is used as the design project is done in team,.
   - Tinker CAD for simulation.
   - Vlab.co.in used for virtual experiments.
   - ICT Tools Usage (Pear deck, Google classroom, Slide).
   - Moodle platform used for course management.
   - Collaborative learning for assignment.
   - Case study and worksheet used for assessment.
   - Active Learning.
   - Peer Coaching.
   - Used Moodle for content sharing and assessment
4. Innovative assessment methods followed to measure Course outcomes at higher levels
   - Design Portfolio Presentation.
   - Flipped classroom for assignment.
   - programming for industrial problems.
   - Assignment using Mat lab tool for modelling of motors, Assignment on practical uses of motors. (CNC, ROBOTS, EV vehicle)
   - Report submission for each experiment.
   - Student presentation and report submission on System Hierarchy.
   - Requirement Management Tool and System Modelling Language.
   - Mini Project on implementing simple IoT application related to Industrial Application.
   - Mini Project in CAD modelling of MEMS components and suggestion of appropriate fabrication.
   - Activity submission on apply level questions, Mini project on designing Analog circuits for specific applications using Tinkercad process.

5. Modern teaching Tools used
   Tools usage like: FESTO FLUIDSIM, AUTOMATION STUDIO 6.2, INDRAWORKS PLC, PICOSOFT, TINKERCAD

6. Course Contents that can be added
   - 18MT440 – SENSOR AND MEASUREMENTS - To add More topics on signal conditioning
   - 18ES290- LATERAL THINKING - UNO SDG goals - for mapping the case studies with SDG gaols
   - 18MT280 – WORKSHOP – (Analog Circuit Design can be added)
   - 14MT770 – System integration, Theory cum practical course need to be converted into theory and practical course
   - 18MT220 – Synchronous Reluctance motor can be added
   - 18MT680 – ROS (Robot Operating System)

7. Course Contents that can be removed
   - 18MT340- Thermal and Fluid Engineering - Entropy Topic can be removed
   - 14MT720 – Unmanned Aerial Vehicles -The Mathematical part in the subject can be reduced to make it more interesting
   - 18MT510 - Control systems -Implementation of case studies using control systems
   - 18MT620 – CNC Technology - Three phase induction motor – Construction, Characteristics, Speed control methods, VFD, Axis Drive – AC Servo motor, Construction, Characteristics, Closed loop position control. Feedback devices – Rotary encoder, linear scale encoder, proximity sensor, synchronous resolver. (These contents are already covered in Electrical Machines, Sensors and Power Electronics and Drives)

8. Any other Suggestions for improvement in Content Delivery/course content/assessment

14MT720 – Unmanned Aerial Vehicles - The subject is felt difficult for all the students. An expertise in avionics and aeronautical engineering can be used for teaching the students.
18MT510- Exposure to control lab can be introduced in parallel

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