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.

TLP   HOD ARCH

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.

TLP

HOD ARCH

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.

HDCSE

Thiagarajar College of Engineering, Madurai – 625 015
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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. ch

HDCSE

M.Sc. Data Science (5 yrs integrated)

REPORT ON COURSE FEEDBACK BY FACULTY

ACADEMIC YEAR : 2019-2020, Even Semester

Course Code	Faculty Review
General Observations	• All the courses are found to be important and relevant to the current trend of industry needs and societal needs • Course outcomes shall be revisited • Proficiency level of students are found to be high • Availability of text books and other content is satisfactory • ICT tools other than Power point shall be used extensively inside the class
19DS210	Unit I deals with basics mathematics which have been taught in Higher secondary mathematics. These portions shall be reduced
19DS220	-
19DS230	-
19DS240	Online coding and concept test are used for assessment
19DS250	Course outcomes shall be improved Course content shall be made more appropriate with Course outcomes
19DS270	Availability and use of software for the conduct of Laboratory experiments is good; Mini projects are given
19DS280	Availability of software is good; Mini projects are given

Action to be taken in the next revision of syllabus:

1. Revisit of all course outcomes
2. Course content shall be revisited based on the requirements and reviews from faculty. student and other stake holders.

HODAMCS

Anitha D
TLP Coordinator

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI

DEPARTMENT OF APPLIED MATHEMATICS AND COMPUTATIONAL SCIENCE

M.Sc. DataScience (5 yrs integrated)

REPORT ON COURSE FEEDBACK BY FACULTY

ACADEMIC YEAR : 2019-2020, Odd Semester

Course Code	Faculty Review
General Observations	• All the courses are found to be important and relevant to the current trend of industry needs and societal needs • Course outcomes shall be revisited • Proficiency level of students are found to be high • Availability of text books and other content is satisfactory • ICT tools other than Power point shall be used extensively inside the class
19DS110	Unit I deal with basics of differentiation and integration which have been taught in Higher secondary mathematics. These portions shall be reduced Time shall be allotted for more practice problems
19DS120	Course outcomes shall be improved
19DS130	-
19DS140	More time needed to give hands on training to students
19DS150	Portions in automata theory in more and shall be reduced
19DS170	Availability and use of software for the conduct of Laboratory experiments is good

Action to be taken in the next revision of syllabus:

1. Revisit of all course outcomes
2. Course content shall be revisited based on the requirements and reviews from faculty, student and other stake holders.

HODAMCS

Anitha D
TIP Coordinator

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.

HDECE

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THIAGARAJAR COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

TEACHER/FACILITATOR FEEDBACK ANALYSIS

ACEDEMIC YEAR 2019-20

All the courses are considered important and relevant to industry and society. Content of all the courses corresponding to COs are appropriate. Contribution of course content to design thinking and critical analysis is mostly found very good. All the faculty found adequate time for effective coverage of syllabus/lab experiments

Most of the teachers started using ICT tools in addition to PPT. Moodle, Google classroom, and Canvas instructure are the different learning management systems (LMS) used by the faculty. Active learning strategies like TPS, Collaborative learning and Peer coaching are also reported. Software simulations, Videos from websites and screen casting videos are also used for teaching and learning.

Regarding Course contents, suggestions are provided in few courses to add the following:

Course	Contents that can be added
Project Management	Soft skill content
Research Methodology and IPR	real time patent filing procedures
Energy Management System Lab	Wind energy conversion system
Project Management	Project management Software can included
Drives and Control	Application oriented topics shall be included
Special Machines Drives	closed loop control of permanent magnet brushless motor drives
Capstone Course-II	Soft skills training can be given

Also, it is reported that basics of machines can be removed from 'Drives and Control' course and Linear motor can be removed from 'Special Machines' course as it not used in common.

Action taken report based on previous analysis:

Content of the courses Digital Systems, Project Management, Microcontrollers are revised. The report is disseminated to course designers and will be considered in the forth coming BOS.

HDEE

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI

DEPARTMENT OF COMPUTER APPLICATIONS

REPORT ON COURSE FEEDBACK BY FACULTY

ACADEMIC YEAR : 2019-2020, Even Semester

Course Code	Faculty Review
General Observations	• All the courses are found to be important and relevant to the current trend of industry needs and societal needs • Course outcomes shall be revisited • Proficiency level of students are found to be high • Availability of text books and other content is satisfactory • ICT tools other than Power point shall be used extensively inside the class
17CA210	Course content is satisfactory.
17CA220	Availability of text books and other content is satisfactory;Mini projects are given
17CA230	Real Time Problem is given for Assessment.
17CA240	Hands on training are given.
17CA250	Course content is satisfactory.
17CA270	Course content is satisfactory.
17CA280	Availability of software is good; Mini projects are given
17CA290	-
17CA410	Availability of text books and other content is satisfactory;Mini projects are given
17CA420	Course outcomes shall be Changed
17CA430	Course content is satisfactory.
17CAPB0	Course content is satisfactory.
17CAPH0	Challenging topics- Data Security
17CA470	Availability and use of software for the conduct of Laboratory experiments is good; Mini projects are given
17CA480	Supported by Adjunct faculty from industry, A new tools and technique are introduced.
17CA490	Course contend added-regression model.

HODCA

Dept. faculty In-charge

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI

DEPARTMENT OF COMPUTER APPLICATIONS

REPORT ON COURSE FEEDBACK BY FACULTY

ACADEMIC YEAR: 2019-2020, 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	Course content is satisfactory.
17CA130	Challenging topics- Restoring and Non Restoring Division
17CA140	Course content is satisfactory.
17CA150	More time needed to give hands on training to students and Collaborative learning shall be practiced.
17CA170	Online coding and concept test are used for assessment
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	Course content is satisfactory.
17CA340	Open sources tools can be used for design
17CA350	Course content is satisfactory.
17CA370	Availability and use of software for the conduct of Laboratory experiments is good; Mini projects are given
17CA380	Availability and use of software for the conduct of Laboratory experiments is good –Hands on training is given
17CA510	Course content is satisfactory.
17CA520	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.
17CA530	Hands on training assigned to the students
17CAPN0	Availability of text books and other content is satisfactory;Mini projects are given
17CAPG0	Course content is satisfactory.
17CA570	Availability and use of software for the conduct of Laboratory experiments is good
17CA580	Open source tools / Software can be practiced

HODCA

Dept. Faculty In-charge

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI – 625 015.

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Department of Mechanical Engineering

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

The following courses have the course outcome attainment percentage less than 70 in relevance with the course curriculum

COURSE CODE	CORSE NAME	COURSE COUTCOME
14ME540	Heat and Mass Transfer	CO1, CO2, CO5
14ME710	Project Management	CO1
14ME720	Industrial Engineering	CO1, CO2, CO3, CO5
14ME620	Kinematics and Dynamics of Machinery	CO2
14MEPB0	Energy Conversion Systems	CO2, CO3
14MEPJ0	Material Handling Systems Engineering	CO2, CO4, CO6
14MEPK0	Automotive Engine System	CO1, CO2

Action Taken

Course Instructors and Course designer of above courses are informed about the comments and instructed to take appropriate actions.

K. Ch

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

   HDMCT