THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI 625015.
(A Govt. aided ISO9001:2008 certified, Autonomous Institution affiliated to Anna University)
Department of Electronics and Communication Engineering

COURSE TEACHER /FACILITATOR FEEDBACK ANALYSIS

Academic Year 2022-23

Course Teacher/Facilitator feedback analysis were carried out. The following observations were made.

- All the courses are considered most important and relevant to industrial and societal needs.
- The content of all the courses corresponds to Course Outcomes (COs) at Intermediate order and higher-order thinking skills with appropriate distribution of their cognitive levels.
- Most of the faculty members are using ICT tools. CANVAS INSTRUCURE, Google classroom and A learning management system (LMS) is used by many faculty members. Active learning strategies such as TPS, TAPPS, Quiz, Poll, Mentimeter, Kahoot, Roleplay, Visual Quiz, STAD, TGT, JIGSAW, Case study presentation, Discussion forum, flipped classroom, collaborative learning, and problem-solving are a few.
- Videos from websites, screencasting videos with "Screencast O Matic," screencasting videos on Youtube, distributing assignments in CAMU, are also used for our learners. NPTEL Course assignments are also used effectively to improve the students' performance.
- Besides these, case studies, mini-projects are practiced in 21EC420- RF Active Circuits: - Case study problems have been provided and students are instructed to design a maximum gain amplifier, one-port oscillator for GSM applications and in 18EC630 and 18EC670 – Data Structures algorithms and the laboratory courses. Students solved real-world problems including the college campus location mapping.
- A dedicated tutorial hour helped the students to practice more problems and improve their performance in their CAT and practical exams for the following courses. (22EC220-Electronic Devices and 22EC260- Problem Solving using Computers)
- Faculty members mentioned in 22EC260-Programming for problem solving- More practice is needed for pointers and structure concepts.
- In 18EC660-Digital Communication System Design, new experiments using LABVIW has been introduced. Also, a new programming for emulator is included.

- Few projects are recommended for patent filing from 21EC690-Engineering Design Project course. Community projects help the students' communication skill and project management skill.
- The usage of smartboard was effectively carried out to improve TLP. (21EC490 – Project Management)
- 21ECPA0 – Computer Vision and Applications: Face recognition for authentication, Image stitching for panoramic image creation.
- Faculty members pointed out that the contribution of the course to team management and critical analysis is high for the course 21EC490- Project Management. Community projects help the students' communication skill and project management skill. UNIDO Approach and Material Planning has to be removed and Cost management is very important, and it can be included.
- Assessment weightage can be provided high for practical assignments. (21ECPA0-Computer Vision and Applications)
- Faculty members also mentioned that some of the topics have to be added/ removed for their respective courses due to time constraints.
- More GATE problems have been solved for 22EC230 – Electric and Magnetic circuits and 22EC240-Digital Circuit Design courses. The student has collected their own breadboard and ICs and implemented the basic digital circuits. They gained practical experience through theory cum practical courses.
- Students can access course materials and video recordings – Anytime, Anywhere from CAMU.
- The assignments' methodologies focus on the course outcomes at higher cognitive levels.
- Research skills of the students should be nurtured by faculty members. Scholarly students should be motivated to take up the course 'Research practice'.

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.

27/9/23

HDECE

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Department of Electronics and Communication Systems

COURSE TEACHER /FACILITATOR FEEDBACK ANALYSIS

Academic Year 2020-2021 (Odd Semester)

Ref: ECE/TLP/SR/VRV/BY **Date:06.01.2022**

- All the courses are considered most important and relevant to industrial and societal needs.
- The content of all the courses corresponds to Course Outcomes (COs) at Intermediate order and higher-order thinking skills with appropriate distribution of their cognitive levels.
- Faculty members observed that students' proficiency levels in prerequisites are improved in a few courses.
- Faculty members pointed out that the contribution of the course to design thinking and critical analysis is high for the following courses 18ES390-Design Thinking and 18ES590 - System Thinking.
- Faculty members also mentioned that some of the topics have to be added/ removed for their respective subjects due to time constraints, especially for Theory cum practical courses. Assessment weightage can be provided equally for theory and practical. (18ES560-Digital Image Processing)
- Faculty members also mentioned the challenging topics of their respective subjects.
- Most of the teachers started using ICT tools. CANVAS INSTRUCURE – A learning management system (LMS) is used by a few faculty members. Active learning strategies such as TPS, Quiz, Pear Deck, Discussion forum, flipped classroom, collaborative learning, and problem-solving are a few. Videos from websites, screencasting videos with "Screencast O Matic," WordPress, screencasting videos on Youtube, distributing assignments in MOODLE – Gnomeo, Assignments in EDMODO are also used for our learners.
- Field visit helps the students' communication skill and project management skill for the following courses (18ES390, 18ES590)
- The Assessment methodologies are carried out by conducting three continuous Assessment tests and three assignments. These assignments methodologies focus on the course outcomes at higher cognitive levels.

- Besides these, case studies, mini-projects (18EC560, 18ECGD0), GATE questions are used in specific courses.
- Faculty members felt that a few topics are challenging to handle in online mode.
- Faculty members gave feedback that the best two Continuous Assessments are considered for CO-PO analysis. Hence few COs have not attained the expected level. Hence, all the Continuous Assessment Tests are to be considered for calculation.

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.

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COURSE TEACHER /FACILITATOR FEEDBACK ANALYSIS

Academic Year 2020-2021 (Even Semester)

Ref: ECE/TLP/SR/VRV/BY **Date:06.01.2022**

- All the courses are considered most important and relevant to industrial and societal needs.
- The content of all the courses corresponds to Course Outcomes (COs) at Intermediate order and higher-order thinking skills with appropriate distribution of their cognitive levels.
- Faculty members gave feedback that due to CDIO courses, the student's understanding and involvement have been increased.
- Faculty members pointed out that the contribution of the course to design thinking and critical analysis is high for the following courses 18ES690-Engineering Design Project and 18ES290 Lateral Thinking.
- Faculty members observed that students' proficiency levels in prerequisites are to be improved in a few courses.
- Faculty members also mentioned that some of the topics have to be added/ removed for their respective courses.
- 18EC490-Project Management
- Knowledge areas, CPM cost modeling, Time-cost Tradeoff are to be added. Material Planning - Procurement logistics & storage. Machines & Technology planning, Quality Assurance, Inspection.,Testing, Transportation, Commissioning, Trial Run are to be removed. The assessment pattern has to be changed to continue the project-based learning from the Design Thinking course.
- Recent trends are added in a few courses.

18EC510 – Security algorithms and multi-cast routing algorithms
18ECPJ0 – Elliptic Curve Cryptography
18ECPA0 – Deep learning algorithms

- Faculty members also mentioned the challenging topics of their respective courses.
- Most of the teachers started using ICT tools. CANVAS INSTRUCURE – A learning management system (LMS) is used by a few faculty members. Active learning strategies such as TPS, Quiz, Pear Deck, Discussion forum, flipped classroom, collaborative learning, and problem-solving are a few.

Videos from websites, screencasting videos with "Screencast O Matic," WordPress, screencasting videos on Youtube, distributing assignments in MOODLE – Gnomeo, Assignments in EDMODO are also used for our learners.

- Field visit helps the students' communication skill and project management skill for the following courses (18ES290)
- The Assessment methodologies are carried out by conducting three continuous Assessment tests and three assignments. These assignments methodologies focus on the course outcomes at higher cognitive levels. Few courses need changes in the Assessment pattern. (18EC490-Project Management – Terminal Assessment pattern can be a case study project which includes time, cost, resource planning, risk factors, and social cost benefits, instead of a theory-based terminal exam.)
- Apart from these case studies, students' projects (18ECPA0-Computer Vision and Applications) GATE questions (18EC220-Network Theory, 18EC440-Signal Processing, 18EC620 – Control systems) are used in specific courses.
- The virtual lab has been used in a few courses.
- More hardware experiments are to be included. (18EC660-Digital Communication System Design)
- Faculty members felt that a few topics are challenging to handle in online mode—18EC440-Understanding of the random process and its applications, especially for lateral entry students.

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.

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