# Dr Mahalingam College of Engineering and Technology, Pollachi
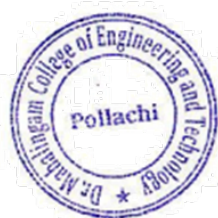
## Stake holder feed back –Action taken report

| S.No. | Program Name |
|-------|--------------|
| 1 | Automobile Engineering |
| 2 | Civil Engineering |
| 3 | Computer Science and Engineering |
| 4 | Electronics and Communication Engineering |
| 5 | Electrical and Electronics Engineering |
| 6 | Electronics and Instrumentation Engineering |
| 7 | Information Technology |
| 8 | Mechanical Engineering |

PRINCIPAL
PRINCIPAL
Dr. Mahalingam College of
Engineering and Technology
Pollachi - 642 003.

# Dr. Mahalingam College of Engineering and Technology, Pollachi – 642 003

## Department of Automobile engineering

**Alumini Feedback Consolidation**
**Academic year 2017- 2018**

| Strengths | | |
|---|---|---|
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Flexible credit system<br>• Student centric curriculum | • Well established policies and structures<br>• Nice teaching environment | • Department association activities |
| **Areas for improvements (Recommendations with reasons)** | | |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Include computer Programming as an elective course | • Implement the principle of Plan, Develop, Act | • 3D printing technologies |
| **Actions taken to bridge the academia industries gap** | | |
| • Workshops, guest lectures and training programmes by the industrial experts on the feedbacks given by the Alumini were arranged. | | |


**Programme coordinator**                                    **HOD**

# Dr. Mahalingam College of Engineering and Technology, Pollachi – 642 003

## Department of Automobile engineering

**Alumini Feedback Consolidation**
**Academic year 2018- 2019**

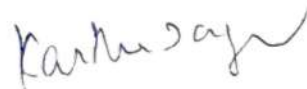| Strengths | | |
|---|---|---|
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Effective Curriculum based on recent trends <br> • Robotics, Mechatronics related courses | • Well profiled faculty members <br> • Teaching through Cut section, demonstration and working models | • Organized methodologies and system of learning |
| **Areas for improvements (Recommendations with reasons)** | | |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Introduce Automotive Embbeded course <br> • Include Python programming and IoT applications | • Advanced online tools can be used for teaching, assessment and evaluation <br> • E-books can be provided <br> • Introduce new courses related to automotive electronics | • Need to meet the requirements of top technology companies like Tesla, Bosch, Mercedes |
| **Actions taken to bridge the academia industries gap** | | |
| • Suggestions proposed by the Aluminis were included in the R-2019 <br> • The areas to be dealt by the industry experts were identified | | |

**Programme coordinator**                                           **HOD**

# Dr. Mahalingam College of Engineering and Technology, Pollachi – 642 003

## Department of Automobile engineering

### Alumini Feedback Consolidation
### Academic year 2019- 2020

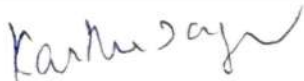| Strengths | | |
|---|---|---|
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Well constructed curriculum<br>• Multidisciplinary courses | • More learning platform<br>• Converting internships to placements | • Develop training centre for Automotive engines<br>• Hands on training sessions by the college |
| **Areas for improvements (Recommendations with reasons)** | | |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Add Java, MYSQL, Data base courses | • Training on Hybrid, electric vehicles | • Trainings from NIT, IITs |
| **Actions taken to bridge the academia industries gap**<br>• Industries were visited by the faculty members to identify the industries' needs<br>• Programming languages were included in the curriculum | | |

**Programme coordinator**

**HOD**

# Dr. Mahalingam College of Engineering and Technology, Pollachi – 642 003

## Department of Automobile engineering

**Alumini Feedback Consolidation**
**Academic year 2020- 2021**

| Strengths | | |
|---|---|---|
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Courses related to automotive electronics<br>• Well-built regulations | • More Practical Sessions<br>• Applications oriented teaching | • MoU with industries |
| **Areas for improvements (Recommendations with reasons)** | | |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Modify Engineering Graphics from Practical to normal class<br>• Add coding related subjects | • Training from industrial experts<br>• Some more internships can be arranged | • Society relevant problems can be solved<br>• Interpersonal skills to be improved |
| **Actions taken to bridge the academia industries gap** | | |
| • Suggestions proposed by the Aluminis were discussed in the BoS meeting for further actions<br>• Additional courses were handled fully by the industry experts | | |

**Programme coordinator**

**HOD**

# Dr. Mahalingam College of Engineering and Technology, Pollachi – 642 003

## Department of Automobile engineering

**Alumini Feedback Consolidation**
**Academic year 2021- 2022**

| Strengths | | |
|---|---|---|
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Data science courses for automobile engineering<br>• Value Added Courses | • Good communication and Programming knowledge<br>• Good Infrastructure for automobile Engineers | • Training on attitude and personality development<br>• Many inter-college events |
| **Areas for improvements (Recommendations with reasons)** | | |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Update the courses as per current industry Concepts<br>• Introduce AIML courses | • Introduce CAD automation and PLM customisation<br>• Learning through reverse engineering | • Society relevant problems can be solved<br>• Hire experienced industrial People |
| **Actions taken to bridge the academia industries gap**<br>• Suggestions proposed by the Alumini were discussed in the BoS meeting for further actions<br>• Training on Simulation software was arranged<br>• Practices on recent programming languages were given | | |

**Programme coordinator**                                              **HOD**

# Dr. Mahalingam College of Engineering and Technology, Pollachi – 642 003

## Department of Automobile engineering

### Employer Feedback Consolidation
### Academic year 2017- 2018

| Strengths | | |
|---|---|---|
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Good Curriculum<br>• Well structured laboratory experiments | • Eminent Faculty<br>• Nice teaching environment | • Skills development programs<br>• Department association activities<br>• Developed good team projects |
| **Areas for improvements (Recommendations with reasons)** | | |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Implement one-credit courses and more value-added courses | • Improve teaching methodology to understand the basic concepts | • Coordinate international conferences, symposia<br>• Trainings in MNCs |
| **Actions taken to bridge the academia industries gap**<br>• Suggestions proposed by the employers were discussed in the BoS meeting for further actions<br>• Additional courses will be introduced in the upcoming regulations<br>• Workshops, guest lectures and training programmes by the industrial experts were arranged | | |

**Programme coordinator**                                **HOD**

# Dr. Mahalingam College of Engineering and Technology, Pollachi – 642 003

## Department of Automobile engineering

### Employer Feedback Consolidation
### Academic year 2018- 2019

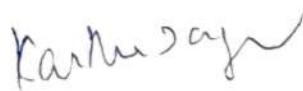| Strengths | | |
|---|---|---|
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Effective Curriculum based on recent trends<br>• Theory courses with Laboratories | • Proficient Faculty members<br>• Teaching through Cut section, demonstration and working models | • Strong leadership skills<br>• Ethical and moral values<br>• Membership activities through societies like SAE |
| **Areas for improvements (Recommendations with reasons)** | | |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Industry based courses<br>• Advanced Software<br>• More hands on training to be provided based on industry needs | • Advanced online tools can be used for teaching, assessment and evaluation<br>• E-books can be provided<br>• Introduce new courses related to automotive electronics | • SAE international student conventions can be organized<br>• More industrial trainings on recent trends to be provided to the students |
| **Actions taken to bridge the academia industries gap** | | |
| • Suggestions proposed by the employers were included in the R-2019<br>• Additional courses were handled fully by the industry experts<br>• More industrial visits were arranged | | |


**Programme coordinator**                                         **HOD**

# Dr. Mahalingam College of Engineering and Technology, Pollachi – 642 003

## Department of Automobile engineering

### Employer Feedback Consolidation
### Academic year 2019- 2020

| Strengths | | |
|---|---|---|
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Frame syllabus based on latest technologies<br>• Implement multidisciplinary courses<br>• Reframe subjects as hands on training | • Outcome based education systems are provided to the students<br>• Teaching through Cut section, demonstration and working models | • Membership activities through societies like SAE<br>• Associated industrial trainings<br>• Explore students with more industrial visits<br>• Develop training centre for Automotive engines |
| **Areas for improvements (Recommendations with reasons)** | | |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Applications based problem solved skills is to be provided<br>• Practical knowledge on industrial automation should be improved<br>• Revise the lab experiments based on the current trends<br>• Add electrical and electronic based subjects | • Advanced online tools can be used for teaching, assessment and evaluation<br>• E-books can be provided<br>• Introduce new courses related to automotive electronics | • Research based lab facilities<br>• Interpersonal skills to be improved<br>• Society relevant problems can be solved |
| **Actions taken to bridge the academia industries gap** | | |
| • Interfacing software was taught in batch wise and in rotation basis<br>• Programming software courses were included in the curriculum | | |

**Programme coordinator**                                    **HOD**

# Dr. Mahalingam College of Engineering and Technology, Pollachi – 642 003

## Department of Automobile engineering

### Employer Feedback Consolidation
### Academic year 2020- 2021

| Strengths | | |
|---|---|---|
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Performing real-time projects<br>• Implemented electrical and electronic based courses<br>• Highly equipped lab experiments | • Outcome based education systems are provided to the students<br>• Established animation videos in teaching methodology | • Centre of excellences and Joint certification centre<br>• Communication and soft skills development centre<br>• Good team work |
| **Areas for improvements (Recommendations with reasons)** | | |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Industry based programming courses<br>• Advanced Software<br>• More hands on training to be provided based on industry needs and research activities<br>• Solve numerically the real time problems<br>• Students must be strong in fundamental concepts<br>• Automotive safety design courses can be introduced | • Industrial expert training can be provided<br>• Advanced online tools can be used for teaching, assessment and evaluation<br>• E-books can be provided | • Research based lab facilities<br>• Interpersonal skills to be improved<br>• Society relevant problems can be solved |
| **Actions taken to bridge the academia industries gap** | | |
| • Suggestions proposed by the employers were discussed in the BoS meeting for further actions<br>• Additional courses were handled fully by the industry experts<br>• Internships in MNCs were arranged<br>• Trainings were given through TUV training centre | | |

**Programme coordinator**                                        **HOD**

# Dr. Mahalingam College of Engineering and Technology, Pollachi – 642 003

## Department of Automobile engineering

**Employer Feedback Consolidation**
**Academic year 2021- 2022**

| Strengths | | |
|---|---|---|
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Electric vehicle related courses <br> • Programming based subjects <br> • Safety design courses | • Online subscription for Programming courses <br> • Library facilities | • TUV, TVS and Bosch training centres <br> • Research and development facilities |
| **Areas for improvements (Recommendations with reasons)** | | |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Implement R&D based projects <br> • Introduce industries based courses <br> • Industrial automation course can be added | • Learning through reverse engineering | • Society relevant problems can be solved <br> • Willingness to learn the new technologies is deficit |
| **Actions taken to bridge the academia industries gap** | | |
| • Suggestions proposed by the employers were discussed in the BoS meeting for further actions <br> • Interfacing software and simulation software were taught in batch wise and in rotation basis <br> • Practices on recent programming languages were given | | |

**Programme coordinator**                                                **HOD**

# Dr. Mahalingam College of Engineering and Technology, Pollachi – 642 003

## Department of Automobile engineering

**Faculty Feedback Consolidation**

**Academic year 2017- 2018**

| Strengths | | |
|---|---|---|
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Students centric curriculum<br>• Combination of basic and advanced courses | • Step-by-step approach<br>• Nice teaching environment | • Participation in international competitions |
| **Areas for improvements (Recommendations with reasons)** | | |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Include supply chain management as an elective course | • Implement the SWOT analysis for each student | • Research & Development projects |
| **Actions taken to bridge the academia industries gap** | | |
| • Subject experts were identified for industry related courses | | |

**Programme coordinator**                                        **HOD**

# Dr. Mahalingam College of Engineering and Technology, Pollachi – 642 003

## Department of Automobile engineering

### Faculty Feedback Consolidation

### Academic year 2018- 2019

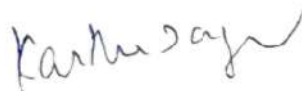| Strengths | | |
|---|---|---|
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • PLC related courses | • Learning by doing | • Structured procedure is followed |
| **Areas for improvements (Recommendations with reasons)** | | |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Introduce Automotive Embbeded course<br>• Include Python programming and IoT applications | • Advanced online tools can be used for teaching, assessment and evaluation<br>• E-books can be provided<br>• Introduce new courses related to automotive electronics | • Prepare industry ready engineers |
| **Actions taken to bridge the academia industries gap** | | |
| • Suggestions proposed by the Facultys were included in the R-2019<br>• The fields of specialization of the industry experts in-line with the institute were identified | | |

**Programme coordinator**

**HOD**

# Dr. Mahalingam College of Engineering and Technology, Pollachi – 642 003

## Department of Automobile engineering

### Faculty Feedback Consolidation

### Academic year 2019- 2020

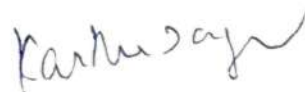| Strengths | | |
|---|---|---|
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Human values related courses<br>• Biased stream-wise subjects | • Active learning methodologies are implemented | • Developed training centres for Automotive systems |
| **Areas for improvements (Recommendations with reasons)** | | |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Add Python programming | • Discussion mode of teaching-learning | • Trainings from reputed institutions and government bodies |
| **Actions taken to bridge the academia industries gap** | | |
| • Identified requirements of students were discussed with the Students affairs team<br>• Programming languages were included in the curriculum | | |

**Programme coordinator**

**HOD**

# Dr. Mahalingam College of Engineering and Technology, Pollachi – 642 003

## Department of Automobile engineering

### Faculty Feedback Consolidation

### Academic year 2020- 2021

| Strengths | | |
|---|---|---|
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Courses related to telematics<br>• Product Life cycle management | • Teaching using modern accessories like tablets and software<br>• | • MoU with industries |
| **Areas for improvements (Recommendations with reasons)** | | |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Change Engineering Graphics as a theory course<br>• Add software testing subjects as an open elective course | • More demo sessions to understand the concepts | • Industry defined problems can be solved<br>• Computing and simulation skills development sessions |
| **Actions taken to bridge the academia industries gap** | | |
| • Suggestions proposed by the Faculty were discussed with the management team<br>• Digital library facilities have been improved | | |

**Programme coordinator**                                        **HOD**

# Dr. Mahalingam College of Engineering and Technology, Pollachi – 642 003

## Department of Automobile engineering

### Faculty Feedback Consolidation

### Academic year 2021- 2022

| Strengths | | |
|---|---|---|
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Computer programming courses for automobile engineering <br> • More number of Value Added Courses | • More Hands on training Sessions <br> • Real life examples based teaching | • Training centres and Centres of excellence |
| **Areas for improvements (Recommendations with reasons)** | | |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Identify the courses specific to particular industries <br> • Introduce Artificial Intelligence courses | • Learning through reverse engineering | • Invoke research attitude through laboratory courses |
| **Actions taken to bridge the academia industries gap** <br> • Suggestions proposed by the Faculty were discussed in the BoS meeting for further actions <br> • Laboratory equipment were upgraded with research opportunities | | |

**Programme coordinator**                                    **HOD**

# Dr. Mahalingam College of Engineering and Technology, Pollachi – 642 003

## Department of Automobile engineering

**Students Feedback Consolidation**
**Academic year 2017- 2018**

| Strengths | | |
|---|---|---|
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Designed the syllabus as per the standard.<br>• Lab equipments are well maintained | • Eminent Faculty<br>• Chalk and board method is so useful for students to understand the concept easily. | • Provide Good hand on training program<br>• Organized more technical events in club and association<br>• Developed good team work |
| **Areas for improvements (Recommendations with reasons)** | | |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Implement one-credit courses and more value-added courses<br>• Establish the lab equipment as per the industrial norms.<br>• Introducing the updated lab equipments | • Introduce the PPT and video based teaching methodology to understand the basic concepts | • International events can be organised in regular interval<br>• Organise software training program with the help of industrial experts. |
| **Actions taken to bridge the academia industries gap**<br>• Suggestions proposed by the employers were discussed in the BoS meeting for further actions<br>• Additional courses will be introduced in the upcoming regulations<br>• Workshops, guest lectures and training programmes by the industrial experts were arranged | | |

**Programme coordinator**                                    **HOD**

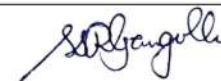# Dr. Mahalingam College of Engineering and Technology, Pollachi – 642 003

## Department of Automobile engineering

**Students Feedback Consolidation**
**Academic year 2018- 2019**

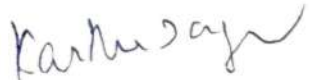| Strengths | | |
|---|---|---|
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| <ul><li>The recent technologies are updated in curriculum</li><li>Theory courses with Laboratories are well defined object and outcomes</li><li>Implement fast track courses for students.</li></ul> | <ul><li>Faculty to solve the problem with real time examples</li><li>Provide communication skill training program for students.</li><li>Motivated the students to attend the NPTEL exam.</li></ul> | <ul><li>Built strong leadership skills</li><li>Studied the Ethical and moral values</li><li>Motivate the students to participate the society events to enhance the technical knowledge</li></ul> |
| **Areas for improvements (Recommendations with reasons)** | | |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| <ul><li>Introduce the new course based on their current industrial needs.</li><li>Provide software training program to solve the industrial problems</li></ul> | <ul><li>Introduce advanced online tools can be used for teaching, assessment and evaluation</li><li>Create E-books for students to access the study material</li><li>Introduce new courses related to automotive electronics</li></ul> | <ul><li>Need to increase the students involvement in some professional clubs</li><li>Increase the number of club activates and engage students in professional development activities</li><li>More industrial trainings on recent trends to be provided to the students</li></ul> |
| **Actions taken to bridge the academia industries gap** | | |
| <ul><li>Suggestions proposed by the employers were included in the R-2019</li><li>Additional courses were handled fully by the industry experts</li><li>More industrial visits were arranged</li></ul> | | |

**Programme coordinator**

**HOD**

# Dr. Mahalingam College of Engineering and Technology, Pollachi – 642 003

## Department of Automobile engineering

**Students Feedback Consolidation**
**Academic year 2019- 2020**

| Strengths | | |
|---|---|---|
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Design the curriculum according to industry requirement<br>• Implement multidisciplinary courses<br>• Inclusion of more practical class for better understanding of concepts | • Outcome based education systems are provided to the students<br>• New hardware and software based training training session shall be introduced | • Learn informative things from club activities<br>• Associated industrial trainings<br>• Explore students with more industrial visits<br>• Develop training centre for Automotive engines |
| **Areas for improvements (Recommendations with reasons)** | | |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Applications based problem solved skills is to be provided<br>• Practical knowledge on industrial automation should be improved<br>• Revise the lab experiments based on the current trends<br>• Add electrical and electronic based subjects and lab components | • Advanced online tools can be used for teaching, assessment and evaluation<br>• Introduce digital learning technique<br>• Improve the hand-on training program | • Research based lab facilities<br>• Interpersonal skills to be improved<br>• Society relevant problems can be solved |
| **Actions taken to bridge the academia industries gap** | | |
| • Interfacing software was taught in batch wise and in rotation basis<br>• Programming software courses were included in the curriculum | | |

**Programme coordinator**

**HOD**

# Dr. Mahalingam College of Engineering and Technology, Pollachi – 642 003

## Department of Automobile engineering

**Students Feedback Consolidation**
**Academic year 2020- 2021**

| Strengths | | |
| --- | --- | --- |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Syllabus content is modern and current trends<br>• Implemented embedded based courses<br>• Automotive electronics theory and lab syllabus is very useful for student to develop best projects<br>• Course objectives and outcomes are clearly defined | • Digital learning due to covid pandemic lock down.<br>• Introduce animation videos in teaching methodology<br>• Provide live and recorded video session with transcript<br>• Modern tools are used for teaching and formative assessment process. | • Communication and soft skills development centre<br>• Develop student thinking ability using real time problems.<br>• Organising online events like webinar, workshop, guest lecture and mock interview. |
| **Areas for improvements (Recommendations with reasons)** | | |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| • Industry based programming courses<br>• Solve the real time case study using simulated software<br>• Numerically solve the real time problems<br>• Establish the Skill based laboratories. | • Introduce the new presentation tools in teaching system<br>• Industrial live training program can be arranged<br>• Advanced online tools can be used for assessment and evaluation<br>• Create E-platform for material resources. | • Organise more technical events and training program to enhance the student knowledge.<br>• Need to increase the student involve in any technical events and club activities. |

## Actions taken to bridge the academia industries gap

- Suggestions proposed by the employers were discussed in the BoS meeting for further actions
- Implement few courses relevant to electric and electronic.
- More practical oriented aspects may be included in all core course
- More input can be given by industrial experts in OCC courses
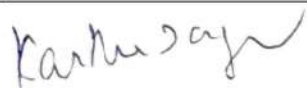
**Programme coordinator**

**HOD**

# Dr. Mahalingam College of Engineering and Technology, Pollachi – 642 003

## Department of Automobile engineering

**Students Feedback Consolidation**
**Academic year 2021- 2022**

| Strengths | | |
|---|---|---|
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| <ul><li>Technical knowledge based curriculum was developed.</li><li>Specialised courses were provided.</li><li>Choice based one-credit courses were taught by industrial expert.</li></ul> | <ul><li>Outcome based teaching methodology</li><li>Both theoretical and practical way teaching were followed.</li></ul> | <ul><li>Industrial collaborative trainings were provided in TUV, TVS and Bosch training centres</li><li>Organised social activities like blood donation camp, etc.</li></ul> |
| **Areas for improvements (Recommendations with reasons)** | | |
| **Courses** | **Teaching Learning methods/practices** | **Professional development activities** |
| <ul><li>Introduce Battery management system and fuel cell technologies are introduced in curriculum</li><li>Layer learning subjects may be introduced in upcoming curriculum.</li></ul> | <ul><li>Implement teaching technique using animation video for real time technologies.</li></ul> | <ul><li>Arrange more number of internship and industrial visit for students.</li><li>Encourage to participate in technical events like symposium, conference and publishing article.</li><li>Identify the real-time problems can be solved</li></ul> |
| **Actions taken to bridge the academia industries gap** | | |
| <ul><li>Suggestions proposed by the employers were discussed in the BoS meeting for further actions</li><li>Interfacing software and simulation software were taught in batch wise and in rotation basis</li><li>Encourage the students to participate in hackathon event to improve the programming and technical skill.</li></ul> | | |

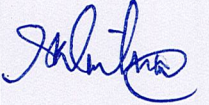**Programme coordinator**                                    **HOD**

# Dr. Mahalingam College of Engineering and Technology

## Department of Civil Engineering

### Indirect Assessment – Action taken (2017-18)

Date: 22.08.18

| Recommendations/ Action to be taken | Responsibility | Status | Signature |
|---|---|---|---|
| Curriculum & Teaching-Learning:<br><br>• Conducting virtual lab courses for students<br>• Project topics should be related to public water scarcity and water pollution problems<br>• Mini projects can be included apart from the main projects<br>• Online courses to be encouraged<br>• Experienced faculty should handle problematic courses<br>• Design and reinforced concrete elements should be pre-requisite for Design and reinforced concrete structures<br>• Geotechnical software can be introduced<br>• Geology and pre-stressed concrete structures can be included in compulsory courses<br>• Design subject syllabus should be minimized | OBE Coordinator<br><br>&<br><br>BoS Coordinator | • Project related to environmental Engineering have been implemented.<br><br>• Courses related to Problems/Analytical components have been handled by senior faculty members<br><br>• DRCE is introduced as a prerequisite for DRCS<br><br>• Geology is added as a compulsory course | |

| | | | |
|---|---|---|---|
| Placement & Training:<br><br>• Core placement<br>• Internship at various locations<br>• Field oriented courses to be introduced<br>• Industry based training to be enhanced<br>• Long internship duration is required<br>• Industry visit must be included for each subject in every semester<br>• Students should encouraged to study NPTEL courses | Placement & Training Coordinator | • Internships are arranged<br><br>• OCC are implemented as a part of industry based courses<br><br>• Core placement initiatives have been taken<br><br>• Industrial visits are arranged | *(signature)* |
| Facilities and general administration:<br><br>• Campus cleanliness<br>• Canteen food can be improved<br>• Wi-fi connectivity<br>• More number of water doctors<br>• Parking | Department Infrastructure Coordinator | • Water doctor are placed at the suitable locations<br><br>• Parking facility improved | *A. P. (signature)* |

*(signature)*

**Prepared by**

*(signature)*

**HoD**

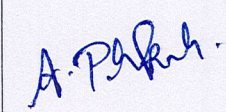# Dr. Mahalingam College of Engineering and Technology

## Department of Civil Engineering
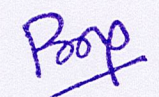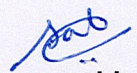
### Indirect Assessment – Action taken (2018-19)

Date: 30.08.19

| Recommendations/ Action to be taken | Responsibility | Status | Signature |
|---|---|---|---|
| Curriculum & Teaching-Learning:<br><br>• Software courses<br>• Orientation over new technologies<br>• Introduce prestressed concrete courses<br>• Syllabus modification in Highway and Environmental Engineering<br>• Online courses can be encouraged for students<br>• More field related activities<br>• Activities based teaching to be improved<br>• Research skill based training needed<br>• Seminar component can be added as evaluation component for the courses<br>• MATLAB and nanoscience courses can be included<br>• Theory cum lab courses can be introduced<br>• More practical oriented courses to be offered | OBE Coordinator<br><br>&<br><br>BoS Coordinator | • Syllabus modified in Highway and Environmental Engineering in Regulation 2019<br><br>• Effective teaching methods are introduced<br><br>• Skill development courses on MATLAB introduced<br><br>• Project work are carried out based local problems<br><br>• Online courses are encouraged<br><br>• Theory cum Practical course was introduced | |

| | | | |
|---|---|---|---|
| Placement & Training:<br><br>• Association activities to be improved<br>• Events should be conducted during working hours<br>• Extra time for professional development courses<br>• Internship must be credited<br>• More training on soft skills<br>• More participation in professional organization<br>• Several industrial webinars can be planned<br>• Club activities can be increased for the students<br>• Association activities to be improved<br>• Events should be conducted during working hours | Placement & Training Coordinator | • More activities were conducted through association<br><br>• Credits to internship was planned<br><br>• Webinars were planned<br><br>• Soft skill training programmes were organized | |
| Facilities and general administration:<br><br>• Canteen facilities<br>• Reprographic facilities to be improved<br>• Parking facilities to be improved<br>• Restrooms should be clean and tidy<br>• Sports activities have to be encouraged | Department Infrastructure Coordinator | • Reprographic facilities improved<br>• Restrooms were maintained properly | |

**Prepared by**

**HoD**

HOD / Civil Engineering,
Dr. Mahalingam College of Engineering and Technology,
Pollachi - 642 003.

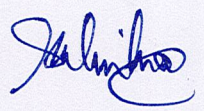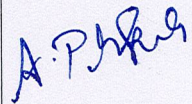# Dr. Mahalingam College of Engineering and Technology

(An Autonomous Institution)
Pollachi - 642003
**Department of Civil Engineering**

**Indirect assessment – Action taken (2019-2020)**        **25.8.2020**

| Recommendations/Action to be taken | Responsibility | Status | Signature |
|---|---|---|---|
| **Curriculum and teaching – learning**<br><br>• FEM analysis, statistical techniques for solving civil engineering problems<br>• Subjects related to environmental planning can be included in the curriculum<br>• GATE related teaching should be included<br>• Students should be encouraged to attend hackathons<br>• Need for advanced technology<br>• Design of Hydraulic structure may be introduced<br>• Irrigation Engineering can be introduced<br>• New software courses to be introduced | OBE coordinator and BOS coordinator | • Statistical techniques were implemented for problem solving skills<br><br>• Coaching for competitive examinations were introduced during course delivery<br><br>• Irrigation Engineering course was introduced<br><br>• OCC courses were introduced to gain knowledge in latest software applications | |
| **Placement and training**<br><br>• Soft skills related training may be provided to students<br>• More practical exposure<br>• Credit for industrial training<br>• Core company placement.<br>• Internship at versatile locations<br>• More industrial visit related to all courses to be arranged | Placement & Training Coordinator | • Soft skill training are in place<br><br>• Practical exposure to students through internship<br><br>• Industrial visit were organized | |

| | | | |
|---|---|---|---|
| **Facilities and general administration**<br><br>• Well ventilated and spacious canteen<br>• Approval process can be digitized<br>• Sports facilities to be improved.<br>• Use smart techniques and online classes<br>• Medical facilities can be improved<br>• Participation of more members in professional society activities to be improved<br>• Improve promotion activities for inter-college competitions | Department Infrastructure Coordinator | • Sports facilities improved<br><br>• Students are encouraged to participate in various events organized by other colleges and organizations.<br><br>• Tablet was issued to students | *A. Prkes.* |

*A. Prkes.*

**Prepared By**

*Boop*

**HOD**
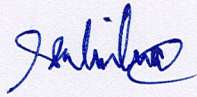
# Dr. Mahalingam College of Engineering and Technology

(An Autonomous Institution)
Pollachi - 642003
**Department of Civil Engineering**

**Indirect assessment – Action taken (2020-2021)**     **10.8.2021**

| Recommendations/Action to be taken | Responsibility | Status | Signature |
|---|---|---|---|
| **Curriculum and teaching – learning**<br><br>• Lab sessions to be increased<br>• Assignments with creative ideas to be given.<br>• Industry Based syllabus<br>• Peer learning can be introduced<br>• Introduction of new areas in civil engineering<br>• Software applications can be introduced in few courses<br>• Adopt active learning practices in online class<br>• Give poll questions during the live sessions<br>• Online tools to be introduced for descriptive assessment<br>• ANSYS can be included in the curriculum<br>• Architectural drawing can be included | OBE coordinator<br><br>&<br><br>BOS coordinator | • Online classes were conducted for all courses as well as assignments with creative ideas<br><br>• Peer learning was introduced to enhance students knowledge<br><br>• ICT tools were used for assessment<br><br>• Webinars were conducted on various software applications, recent trends in Civil Engineering, etc,., | |

| | | | |
|---|---|---|---|
| **Placement and training**<br><br>• Coaching for competitive exams<br>• Hybrid mode of training required<br>• Core company placement<br>• Students should be encouraged to industrial training in the vacations<br>• Slowdown in student activities due to pandemic. Alternative solutions should be adopted. | Placement & Training Coordinator | • Coaching for GATE examination were conducted<br><br>• Training activities through centralized team | |
| **Facilities and general administration**<br><br>• More digital fees payment methods required<br>• Students Credit System<br>• Smart classrooms<br>• Printing and Xerox facilities to be increased<br>• Canteen Facilities<br>• Water points at many locations | Department Infrastructure Coordinator | • Digital payment method introduced<br><br>• Reprographic facilities improved<br><br>• Water points at suitable locations are installed | |

**Prepared By**

**HOD**

HOD / Civil Engineering,
Dr. Mahalingam College of Engineering and Technology,
Pollachi - 642 003.
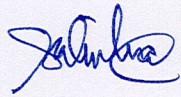
# Dr.Mahalingam College of Engineering and Technology
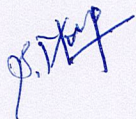(An Autonomous Institution)
Pollachi - 642003
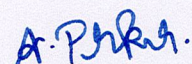## Department of Civil Engineering
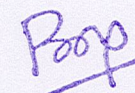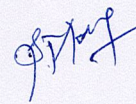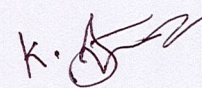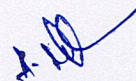
**Indirect Assessment – Action taken (2021-22)**
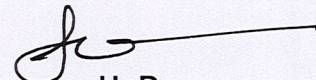
**Date: 04.10.2022**

| Recommendations/ Action to be taken | Responsibility | Status | Signature |
|---|---|---|---|
| Curriculum & Teaching-Learning:<br><br>• Introducing onsite learning for technical subjects<br>• More industrial visits<br>• More real life examples can be introduced<br>• Advanced courses can be included.<br>• Industry collaboration courses may be introduced<br>• New courses on BIM.<br>• Computer applications in environmental engineering and water resources classes to be introduced | OBE Coordinator<br><br>&<br><br>BoS Coordinator | • Real time examples are introduced in few courses<br><br>• Computer applications in WRE was introduced<br><br>• Green Building course was introduced as OCC<br><br>• Case study based assignments in few courses were implemented<br><br>• Online courses are encouraged to all students | |

| | | | |
|---|---|---|---|
| • Course on green building can be offered<br>• Recent advancements in interdisciplinary applications and case studies can be introduced | | | |
| Placement & Training:<br><br>• Implementation of compulsory internship<br>• Alumni interaction to be improved<br>• New club activities to be introduced<br>• Club sessions may be increased<br>• Separate club for programmers<br>• Conduct more events to enhance students professional development activities<br>• Need to increase student involvement in professional clubs | Placement & Training Coordinator | • Mandatory internship introduced<br>• Alumni interaction was organized<br>• More events were organized in various clubs / association | |
| Facilities and general administration:<br><br>• Introduce Book free day<br>• Introduce campus radio facility<br>• Parking facility for car parking | Department Infrastructure Coordinator | • Necessary steps have been take to address the recommendations | K. |

**Prepared by**

HoD

# Dr. Mahalingam College of Engineering and Technology, Pollachi
## Department of Computer Science and Engineering
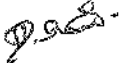
<u>Indirect Assessment -Action taken (2017-18)</u>                    20.8.18

| Recommendations/Action to be taken | Responsibility | Status | Signature |
|---|---|---|---|
| **Curriculum & Teaching-Learning:**<br>• Security aspects could be incorporated into testing.<br>• Domain wise open electives can be included<br>• Cyber security could be considered as a separate elective<br>• Course can be organized in python language in a free cloud environment<br>• AI course can be given with laboratory component<br>• Too much consideration for programming language like C++ in the curriculum can be reduced and consideration can be given for languages like C, Python and Java<br>• Latest technologies are to be included in the curriculum<br>• Need hands-on experience in data analytics tools and technologies<br>• Agile methodology could be enhanced / scrum also trained.<br>• Unit wise case study can be included to gain insight about each unit<br>• More tutorial needed for problematic courses | OBE Coordinator | * Practical skill oriented, integrated lab courses for Programming is planned.<br><br>* AI was included with integrated lab.<br><br>* Tutorials are conducted for analytical courses<br><br>* Assessments based on open book and moodle is used along with tablet for theory and practical courses | Cv.Priya |

| | | | |
|---|---|---|---|
| • Regularize students to learn the habit of research articles<br>• More Formative assessment can be added<br>• Open book test can be implemented<br>• Flipped classrooms may be employed for certain topics<br>• Peer tutorials<br>• Seminar topics from research article can be suggested<br>• Involve students into practical experience<br>• Video conferencing lectures can be given and assessment can be done through moodle and tablet<br>• Problem solving<br>• ICT tools based course delivery can be given | | * Formative assessments are done using tablets.<br>* Active learning techniques like flipped classroom, video lectures are incorporated.<br>* Spoken tutorial courses have been also given to students. | |
| **Placement :**<br>• Need more Placement training from early semesters onwards<br>• Inplant training during vacation may be given with 1 credit<br>• Need training in Advanced concepts<br>• Work-based Studies and Courses, Communication and Personality Development<br>• Placement assistance<br>• Training for government Exams<br>• Comparing to other institutes among the top level, our college need some more placement opportunities for the students and still parents and peoples outside expect | IAP<br>Incharge | 1) Placement training has been planned from 3rd sem onwards.<br><br>2) OCC/workshops planned for giving an insight on advanced topics.<br>3) Through CPG, softskills & tech skills training given.<br>4) Company specific training has been planned. | |

| | | | |
|---|---|---|---|
| more from our college in placement level<br>• Students can be given with communication courses and seminars that will help them to develop a truly engaging and responsive communication style, leading to positive results<br>• Students can be helped in pursuing their passion and dream either it may be Higher Studies, Research and Entrepreneurship<br>• More placement related questions may be solved instead of basic ones during training<br>• Placement training for first year can be initiated<br>• More staff to be allocated for training<br>• Industrial visit for 3-5 days | | 1) Through EPG / Youth parliament Session, students may improve their Communication Skill. Additionally BEC NPTEL, IITB offers Course on Communication Skill improvement.<br>2) Higher Studies cell prepares & mentors students for HS & Exams<br>3) Department placement traig given<br>4) 2r/2T plan already been proposed. | *(signature)* |
| **Facilities and General Administration:**<br>• Wi-Fi facility to be improved<br>• Water facilities should be improved<br>• Needs Digitalized Records<br>• Web based application can be encouraged for all college activities<br>• e-resources and lab can be improved<br>• Need to improve technical support<br>• Knowledge about the available facility is not facilitated to students<br>• Car parking can be improved<br>• Reprography<br>• Internet facility | Infrastructure Incharge | Wifi facility created in all Academic Blocks<br>BYOD Lab has been established<br>In student Handbook, facilities are disseminated.<br>Car parking facility created in A Block.<br>Internet facility given for students on request | *(signature)* |

| | | | |
|---|---|---|---|
| **Project**<br>• Real-time projects<br>• Project guidance and meeting of guide regularly<br>• Need help to improve the different domain knowledge and special care on different domain interested students | Project Coordinator | • Beginning of VI Sem Domain Introduction given by respective Domain heads.<br>• Project Work book has been introduced for regular meeting with guides & progress followup.<br>+ Project Works are desseminated in various forms to showcase the work to industry | *(signature)*<br>[A. Brinda] |
| **Online Courses and Certification**<br>• Blend MOOCs to all subjects<br>• E-learning<br>• NPTEL courses can be added for credit<br>• Github can be effectively used within students group<br>• Awareness on certification can be given | Swayam Coordinator | It is planned to conduct viva through moodle.<br>Students are encourge to do NPTEL online Courses related to Curriculum. | *(signature)*<br>[A-noble mary Juliet] |
| **One Credit Course:**<br>• Hands-on training on latest technology<br>• Students can be made aware of the current industrial trends and applications<br>• OCC must be based on emerging technologies | OCC Coordinator | Already few courses Introduced and planned to provide Courses like Data Analytics?, Routing & switching, Arduino paming<br>Industrial experts are involved to provide hands on training for occ courses | *(signature)* |

*(signature)*
**Prepared by**

*(signature)*
**PC**

*(signature)*
**HOD**

# Dr. Mahalingam College of Engineering and Technology, Pollachi
## Department of Computer Science and Engineering

### Indirect Assessment -Action taken (2018-19)                    27.08.2019

| Recommendations/Action to be taken | Responsibility | Status | Signature |
|---|---|---|---|
| **Curriculum & Teaching-Learning:**<br>• Cryptography and security related concepts can be included in the core course.<br>• Domain wise open electives can be included<br>• Cloud computing course can be offered in python language.<br>• Latest technologies like Social Analytics and machine learning are to be included in the curriculum<br>• Need hands-on experience in data analytics tools and technologies<br>• Artificial Intelligence can be given with practical component.<br>• Unit wise case study can be included to gain insight about each unit<br>• More tutorial needed for problematic courses<br>• Students can be motivated to present seminar topics from relevant research article based on their domain.<br>• Video conferencing lectures can be given and assessment can be done through moodle and tablet<br>• Peer review/feedback among students and faculty can be given<br>• Teaching with multiple modes (ICT, blackboard) can be used. | OBE Coordinator<br>&<br>BOS Convener | * Cryptography has been given as a core course in VII Sem for 2016 regulations.<br><br>* Artificial Intelligence had been given with lab component in 2016 regulations<br><br>* Electives courses like Social Network Analytics and Machine learning were included in the curriculum and offered for students.<br><br>* Data analytics using R had been offered as one-credit course, involving more practical session.<br><br>* Peer review schedule was given for all the courses<br><br>* Teaching and assessment in multiple modes like tablet and blackboard were used. | |

| | | | |
|---|---|---|---|
| **Placement & Training :**<br>• Placement training for first year can be initiated<br>• Need more Placement training from early semesters onwards<br>• Online training based placement tests can be given<br>• Need higher studies training and training for government exams for interested students<br>• Students can be given with communication courses and seminars that will help them to develop a truly engaging and responsive communication style, leading to positive results<br>• Students can be helped in pursuing their passion and dream either it may be Higher Studies, Research and Entrepreneurship<br>• More placement related questions may be solved instead of basic ones during training<br>• Foundation based placement training can be given for pre final years<br>• More staff to be allocated for training<br>• Coding contests can be organized for improving skills.<br>• Industrial tour can be given for more number of days | IAP Coordinator | * DPT hour conducted from 8 8am<br>* Placement.season.com tests are given.<br>* Various awareness & training session on GRE, GATE, German Training are given.<br>* KNACK Academy Training was given for verbal communication.<br>* STEP, STEPUP Program is conducted for Career guidance.<br>* Company specific question are given in DPT hrs.<br>* Foundation Training is given to refresh concepts in DB, DS, JAVA Networks, OS, CC.<br>* | *(signature)* |
| **Facilities and General Administration:**<br>• Wi-Fi facility to be improved<br>• Water facilities should be improved<br>• E-resources, internet facility and lab can be improved<br>• Need to improve technical support<br>• Knowledge about the available facility is not facilitated to students | Infrastructure Incharge | All 2nd & 3rd year class rooms are enabled with wi-fi for tablet implementation<br>water doctor available in all blocks<br>Internet facility has been provided on request and for placement - full internet has been provided<br>Student handbook has been updated with new facilities created. | *(signature)*<br>K·SRINIVASAN |

| | | | |
|---|---|---|---|
| **Project**<br>• Project guidance and meeting of guide tracking regularly can be done.<br>• Need help to improve the different domain knowledge.<br>• Motivated for participation in project contests | Project Coordinator | Project Workbook followed - Students need to meet the guide - weekly.<br>Various domain introduction given by domain experts (internal)<br>All batches participated in contests and encouraged to attend in reputed institutions. | ✓ [A. Brinda] |
| **Online Courses and Certification**<br>• NPTEL courses relevant to project domain can be motivated<br>• Github can be effectively used within students group<br>• Spoken tutorials can be given for students. | Swayam Coordinator | * Conducted lab viva through moodle<br>* Final year students are encouraged to get NPTEL certification regarding their projects<br>* All faculty members are encouraged to enroll in the NPTEL courses to learn new technologies each semester.<br>* All students are encouraged to get certification from online spoken tutorial course related to occ/theory/lab subjects | [M. PANDI] |
| **One Credit Course:**<br>• Recent trends can be offered in OCC with hands-on training<br>• Students can be made aware of the current industrial trends and applications | OCC Coordinator | * Data Analysis using R Programming & Blockchain technologies have been introduced in syllabus.<br>* Industrial experts from various domains are invited and deliver 50% of course content for each occ. | (D. Uma) |

Prepared by

(V. Priya)

PC

HOD

# Dr. Mahalingam College of Engineering and Technology, Pollachi
## Department of Computer Science and Engineering

### Indirect Assessment -Action taken (2019-20)

27.11.2020

| Recommendations/Action to be taken | Responsibility | Status | Signature |
|---|---|---|---|
| **Curriculum & Teaching-Learning:**<br>• Every latest technologies can be introduced as integrated lab along with theory<br>• Data Science can be introduced as part of regular curriculum<br>• Spoken tutorials can be given for students<br>• Course on "Information Theory and Coding" can be included.<br>• E-Learning through Recorded Videos can be given for self learning.<br>• One credit course on Tensor flow, Crypto currency<br>• Product Design can be added<br>• Virtual Reality / Augmented Reality course can be included in curriculum<br>• NPTEL courses can be added for credit<br>• Robotic Process Automation, Bioinformatics, deep learning can be introduced.<br>• Introducing bit coin related courses. | OBE Coordinator & BOS Convener | e-Learning videos were created for all the courses & was provided to students through online platform. Based on the feedback from stockholders, new courses like AR & VR, Product design, Deep learning were included as a electives | Soaramya<br><br>Sujith |
| **Placement & Training :**<br>• Hackathon, workshop on new technologies can be conducted<br>• Need more Placement training from early semesters onwards<br>• Online training based placement tests can be given | IAP | •Students are mandated to attend all types of Hackathon pertain to IT stream<br>•Placement training were provided through internal faculty and External Vendors. | |

| | | | |
|---|---|---|---|
| - Need higher studies training and training for government exams for interested students<br>- Online mock interviews can be conducted for more practice.<br>- Students can be helped in pursuing their passion and dream either it may be Higher Studies, Research and Entrepreneurship<br>- Online tests and webinars can be given for placement.<br>- Domain or coding based placement training can be given for pre final years<br>- Coding contests can be organized for improving skills. | Coordinator | - Various online test were conducted through Hackerrank, MST links.<br>- Session were arranged towards preparation of Govt-exam.<br>- Alumnis were utilized to conducte mock interview through online Platform.<br>- Workbook was prepared to improve the coding ability of the students and some can be practiced through Hackerrank. | |
| **Facilities and General Administration:**<br>- E-resources, internet facility and lab can be improved and made available through intranet.<br>- Wi-Fi facility to be improved<br>- Knowledge about the available facility is not facilitated to students | Infrastructure In-charge | - Internet facility to students are provided on request for Academic activities.<br>- Available facility is dissiminate to students via student handbook | |
| **Project**<br>- Need help to improve the different domain knowledge and choose projects in wide domains.<br>- Motivated for participation in project contests and conferences.<br>- Regular communication to guide regularly can be done. | Project Coordinator | - Domain wise knowledge session was provided.<br>- Most of the batches participated in contests and Conference. | |
| **Online Courses and Certification**<br>- NPTEL courses relevant to project domain can be identified and motivated to the students for completion. | Swayam Coordinator | 1. NPTEL courses have been mandated to final year students based on their project domain. | |

| | | | |
|---|---|---|---|
| • Github can be effectively used within students group<br>• Spoken tutorials tests can be given for relevant courses. | | Students were made to take the spoken tutorial test based on their relevant courses. | *(signature)* |
| **One Credit Course:**<br>• Recent trends can be offered in OCC with hands-on training<br>• Students can be made aware of the current industrial trends and applications. | OCC Coordinator | Latest trend such as block chain was offered as OCC. | *(signature)* |
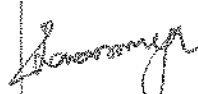
*(signature)*
**Prepared by**

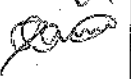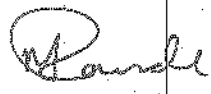*(signature)*
**PC**

*(signature)*
**HOD**

# Dr. Mahalingam College of Engineering and Technology, Pollachi
## Department of Computer Science and Engineering

Indirect Assessment – Action taken (2020-21)　　　　　　　15.09.2021

| Recommendations/Action to be taken | Responsibility | Status | Signature |
|---|---|---|---|
| **Curriculum & Teaching-Learning:**<br>• More electives can be added<br>• Python language should be taught after C programming<br>• Some more recent Technologies can be adopted.<br>• Practical components can be included along with theoretical concepts in relevant courses.<br>• More programming papers can be included<br>• Introduce new skill based courses like ARVR, Ethical hacking, NLP, etc.,<br>• Industry experts can be involved in content delivery of new technology related courses. | OBE Coordinator & BOS Convener | New electives such as Interaction design, Reliability engineering were introduced. More courses of theory with Practical component are introduced. Active Learning practices, online tools were used in online classes | *(signature)* |
| • To explore more Teaching Learning platform like Canvas, Edpuzzle, etc<br>• Adopt Active Learning practices in Online class<br>• Introduce Online tools for effective conduction of descriptive assessment<br>• More Real time based assignments can be given. | Teaching Learning Team head | - Live and Recorded session are conducted throgh msteams.<br>- Active Learning / collaborative Learning throgh msteam break out room during online.<br>- Poll gion gamified quiz (mentimeter) digital pad.<br>- Virtual Lab (mooli), mini projects for oosp | N.ma |
| **Placement & Training :**<br>• Inclusive of more tools for placement training<br>• Non-Placement students should know about the value of engineering in government sector<br>• More placement related questions can be solved in training when compared to basic questions | IAP Coordinator | - provided list of recent practice and assessment tools.<br>- Orientation was given for all students reg. PSU Jobs and competitions. | *(signature)* |

| | | | |
|---|---|---|---|
| <ul><li>Placement opportunities can be further improved with good CTC</li><li>More mock interview sessions can be arranged</li><li>Can include some specialized trainers for training programs</li><li>Students can be guided towards competitive program at early</li><li>Need to Enhance the Alumni Strength and interactions</li></ul> | | -Brought list of companies with good CTC.<br><br>- utilized Alumnis for mock Interview.<br><br>more external training were given. | |
| **Facilities and General Administration:**<ul><li>Need to improve lab facilities. Open source software can be encouraged</li><li>WIFI connection should be provided in all blocks and in hostel also</li><li>Need internet facility with full access</li></ul> | Infrastructure In-charge | -open source slws are identified for each subject & installed in the laboratory.<br>-wifi facility available in all academic blocks<br>-Internet access is given to project lab on demand basis. | Sd |
| **Project**<ul><li>Hackathons may be organized to improve student project skills</li><li>Implementation of More real time applications</li><li>Hardware based projects can be encouraged.</li></ul> | Project Coordinator | × Hackathon challenges were given for Placement training and also through Diti flash Accsader. × For 2018 Batch many real time & Hardware based projects were done by students | Sd |
| **Online Courses and Certification**<ul><li>Encourage students to undergo certification pertaining to the courses.</li></ul> | Swayam Coordinator | × It has been made compulsory for all III year students to undergo certification program through NPTEL, Spoken tutorial etc. | Sd |
| **One Credit Course:**<ul><li>More input can be given by industry experts in OCC courses</li><li>Entrepreneurship based courses can be added in curriculum or in OCC</li></ul> | OCC Coordinator | × Industry experts will be invited to handle OCC × ERP course has been already introduced | |

| | | | |
|---|---|---|---|
| • Need framework related subjects.<br>• Skill based courses can be introduced either as one credit course or in practical component.<br>• There should be a course for us to explore in dismantling or assembling of Computer and hardware practically which should be encouraged even though if it was an OCC | | Skill based courses such as full stack development, MAD using Flutter, AR/VR are introduced<br>* OCC course named PC h/w & trouble shooting already introduced | $\&$ |
| **Department Association activities:**<br>• Association should conduct more number of events regularly to pull the potential capability of the students<br>• More international seminars and symposia may be organised<br>• Need few activities as mandatory for mind relaxing | Department Association Incharge | During 20-21 AY 10 events were conducted for the benefits of students. For the next AY it has been yet planned to conduct more ones including symposium and seminars, motivational and stress mgmt. activities. | |

Prepared by                          PC                          HOD

# Dr. Mahalingam College of Engineering and Technology, Pollachi
## Department of Computer Science and Engineering

### Indirect Assessment -Action taken (2021-22)          17.09.2022

| Recommendations/Action to be taken | Responsibility | Status | Signature |
|---|---|---|---|
| **Curriculum & Teaching-Learning:**<br>● Introduce XR, web application and other trending technologies in curriculum<br>● Web application frameworks like node JS, react JS and Angular JS shall be introduced with more tutorial sessions<br>● Concepts related to Data Engineering, Gamification, UI path RPA shall be introduced<br>● Java and Python programming course shall be modified for major consideration<br>● Modern tools and techniques, and languages can be included in curriculum/ relevant courses<br>● More Agile based software engineering principles can be strengthened in syllabus | OBE Coordinator & BOS Convener | New electives such as Text & web mining, speech processing were introduced. Theory with practical subjects introduced. More programming workshop organized. | *[signature]* |
| ● More elective options may be provided<br>● Case study based assignments and mini projects shall be made as mandatory for all courses<br>● Faculty members shall be encouraged to develop webpages for their courses. This may help students and alumni members to get access to contents all the time<br>● Online tools may be used for class rooms and effective teaching and learning<br>● More virtual lectures and recorded sessions shall be introduced<br>● Digital learning techniques shall be introduced<br>● Blended learning shall be introduced | Teaching Learning Team head | - Faculty members created webpage for subjects Devops Technologies, cloud technology, Database etc for sharing contents to the form of PPT & videos.<br>- For online class, mentimeter gaming quiz is conducted for effective interaction<br>- MS form used for formative assessment as blended learning | N.MK |

| | | |
|---|---|---|
| **Placement & Training :**<br>• More knowledge about companies shall be given from 2nd year onwards<br>• Placement and training sessions shall be started from 3rd year onwards. Training shall be given for all subjects<br>• More placement related questions can be solved in training sessions<br>• Training for group discussion can be given to improve communication skills<br>• Entrepreneurship based awareness can be given for students<br>• External experts shall be invited for providing placement training<br>• More Alumni interactions and industry exposure is required<br>• Senior interaction for higher studies can be improved | IAP Coordinator | Aptitude training & group discussions has been conducted. Assessments were conducted through online Assessment tools. Orientation session on entrepreneurship & higher studies has conducted through alumnis. *[signature]* |
| **Facilities and General Administration:**<br>• Internet facilities may be increased.<br>• Wifi facilities should be provided<br>• Open source software usage can be encouraged<br>• Network based issues shall be rectified<br>• Lab facilities may be modified/ upgraded | Infrastructure In-charge | →Internet facilities and full access given in Lab based on demand.<br>→Lab facilities upgraded in Lab.<br>→Wifi facility available in all academic blocks. *[signature]* |
| **Project**<br>• Mini project shall be included from 2nd year onwards<br>• Interdisciplinary projects can be encouraged<br>• Real time project demos using languages like Python programming can be shown to students in classes and lab sessions<br>• Participation in Coding challenges and hackathons | Project Coordinator | →IV semester students are doing mini project.<br>→During 2021-22 AY students Done one Real time project using python.<br>→Two teams participated in SIH 2022 and one team won 1st prize *[signature]* |
| **One Credit Course:**<br>• New hardware and software based training sessions shall be introduced<br>• More industry experts shall be invited to handle regular, elective and other OCC courses | OCC Coordinator | * OCC course on PC H/w & trouble shooting is introduced<br>* planned to invite resource person to handle occ course for more number of session *[signature]* |

| | | | |
|---|---|---|---|
| • Introduce courses such as Golang, Data Engineering, Container Technologies | | | |
| **Department Association activities:**<br>• More Industry experts shall be invited for talks<br>• Participation in Technical symposiums and contests shall be encouraged<br>• More hackathon activities and contests shall be given to the students to improve their programming skills<br>• Symposiums and technical events shall be organized more effectively | Department Association Incharge | During 21-22 AY 19 events were conducted for the benefits of students. For the next AY it has been planned to conduct more events including Symposiums, Contests & Hackathon | |

PAC Incharge
[Dr. J. Bhavithra]

Programme Coordinator
[Dr.A.Noble Mary Juliet]

HOD
[Dr.G.Anupriya]

# Dr.Mahalingam College of Engineering and Technology, Pollachi-03
## Department of Electronics and Communication Engineering
## Action Taken report for 2021-22 Alumni Feedback

| S. No | Feedback Given | Action Taken |
|---|---|---|
| 1. | Assign practical class and let students design the circuit by own. Eg. like Electronic circuits subjects, we are seeing many circuits during theoretical class for understanding, that can be done as practical circuits in lab and let students observe the behaviour of the circuit | Students are given with technical training on basic electronic courses practically through department Electronic circuits Lab and the course 19ECSN2201 – Electric circuits and Electron devices is given as Theory with in-built lab for better understanding about the circuits and devices in 2019 Regulation curriculum during $2^{nd}$ semester. |
| 2. | More of practical to make students as industry ready | Practical sessions (hands-on) are arranged for students through industry experts and alumni by means of conducting seminars/ workshops/guest lectures to teach them about what industry is expecting on current technologies. |
| 3. | No changes needed just encourage students to be more presentable and bold to present their idea's | Seminars are given to students to motivate them to present their ideas |
| 4. | Scale up practical training hours and working with industry on current technology issues | Technical placement training is conducted for students by department faculty members as both theory and practical |
| 5. | One regret in my experience is not visiting more industries | Industrial visit is encouraged and students are motivated to go for industries once in a semester/year based on their interest. |
| 6. | Introduce Computer vision course (Image processing, ML, DL, Cameras). Modify embedded courses. Teach industry orientated concepts in embedded. | Machine learning course is introduced in curriculum as a core course during $7^{th}$ semester |
| 7. | Introduce mini internships, like 2weeks internship for every year based on their learning (that is the subjects they have) | 19ECPN6001 – Internship (or skill development) during $4^{th}$ semester -2 weeks and $6^{th}$ semester – 2 to 4 weeks is made as mandatory in 2019 Regulation curriculum for students to enhance their practical learning through industries |
| 8. | More Club activities should be given | Various clubs are actively functioning inside the campus. Students can register themselves to various clubs based on their interest. And every week they are assigned with the respective club activities. |
| 9. | Programming /data structures and algorithms-Need to concentrate more on data structures and algorithms | Training on 'Data structures and algorithms' is carried out by faculty members and problem solving sessions are also carried out |

**Alumni Coordinator**
[S. Thilagavathi]
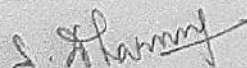
**Program Coordinator**
[Dr. V. K. Sudha]

**HoD/ECE**
[Dr. R. Sudhakar]

# Dr. Mahalingam College of Engineering and Technology

Department of Electronics and Communication Engineering

Feedback given by the Employer

Academic year 2021-2022

| Feedback | Action taken |
|---|---|
| **Curriculum and Teaching learning process**<br><br>1. Advanced data structure concepts.<br>2. Embedded C programming<br>3. System Verilog<br>4. Machine learning and AI based Courses<br>5. Python programming<br>6. VLSI CMOS Design<br>7. Java Script and CSS<br>8. Microprocessor and Microcontroller Syllabus can be improved<br>9. Industry 4.0<br>10. Basic concepts in full stack<br>11. Communication Interfaces – Semaphore and mailbox<br>12. SOC design and verification<br>13. Internet of things<br>14. Introduction to MATLAB tool.<br><br>**Teaching learning Process**<br><br>1. Logical Problem-Solving Skills<br>2. Application based learning<br>3. Inquiry based learning<br>4. Team works based activity and assignment<br>5. Project based learning<br>6. Industry training | 1. As per the 2019 regulations the following courses are introduced.<br><br>• VLSI system design (Core)– VI semester<br>• Microprocessor and Microcontroller (Core)-IV semester<br>• Industry Safety (Open Elective).<br>• Machine learning (Core) - VII semester.<br>• Python programming(Elective& OCC).<br>• Internet of things(Core)- VI semester<br><br>The syllabus for the above courses is updated as per the requirements of the industry standards.<br>Also, an exposure to the MATLAB tool is given to the students through Digital Signal Processing lab during VI semester.<br><br>2. In addition,to the improvements in teaching learning process, listed are achieved through following measures.<br><br>• Students were allowed to attend internship in their VII & VIII Semester as a part of curriculum<br>• The students are encouraged to participate in events like Hackathon to develop their interest in logical Problem-Solving Skills<br>• Mini projects are introduced in IV Semester to learn practically by project demonstration. |

**File Incharge**         PC         HoD/ECE

# DR.MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY, POLLACHI
## DEPARTMENT OF ELECRTONICS AND COMMUNICATION ENGINNERING

## Action taken report for 2021-2022 Feedback (Faculty)

| S.No | Feedback Given | Action Taken |
|---|---|---|
| 1 | ECE related contents can be added in Introduction to Engineering | Some introduction is given in Introduction to Engineering and can be elaborated in the upcoming regulation |
| 2 | Quantum computing can be included for designing Quantum computers Vision system | Vision system is in open elective it can be considered to be added in next regulation |
| 3 | Python course can be introduced in 2019 regulation | Python is taught in Data Science Laboratory of 2019 regulation |
| 4 | Argument reality (AR) and Virtual Reality (VR) can be included | As AI is introduced in this regulation, Argument reality (AR) and Virtual Reality (VR) can be included in next regulation |
| 5 | For Internet of things some topics covering interfacing of sensors and devices used for IOT can be included. Also programming language for IOT can be included. | Some applications of IOT devices are implemented in the subject |

File- Incharge          Programme Coordinator          HoD

# Dr.Mahalingam College of Engineering and Technology, Pollachi-03
## Department of Electronics and Communication Engineering
### Action Taken report for 2020-21 Alumni Feedback

| S. No | Feedback Given | Action Taken |
|---|---|---|
| 1. | Separate classes to use centre of excellence daily | Value Added Courses for RF and VLSI domainsare given for student's knowledge enrichment |
| 2. | Centre of excellence should conduct more activities. | |
| 3. | Please add more RF and antenna related course. RF lab was not fulfilled by staff and students | **19ECCN3501 - Analog and Digital Communication Laboratory**and **19ECCN3701 – RF and Microwave Laboratory** are introduced to learn about practical implementation of RF circuits and devices |
| 4. | VLSI special course have to be added | **19ECCN1601 - VLSI System Design** and One credit course - **19ECVC6005 - System design using Verilog HDL**are provided as a part of curriculum. |
| 5. | Can introduce System Verilog and UVM courses | |
| 6. | More placement Trainings | Subject based trainings are provided to students |
| 7. | Every course or subject related to the core department should be given instead of giving importance to some leisure courses | **19ECCN1501 - Analog and Digital Communication, 19ECCN1502 - Control Systems, 19ECCN2501 - Digital Signal Processing**are refined in the syllabus with good standard |
| 8. | Students should learn the topics and they have to present them | **19PSHG6501 - Employability Skills 1: Teamness and Interpersonal Skills** is introduced for effective presentation |
| 9. | Courses regarding programming can be introduced apart from semester subject | OCC Courses for Python programming, R Tool and Java Programming are introduced and doubt clarification sessions are also conducted. |
| 10. | Practical Programming sessions in Java Python | |
| 11. | course to be introduced is Data Science | **19ECCN3502 - Data Science Laboratory**, OCC courses on Data Science using Python programming and Data Analysis using R tool are introduced in the curriculum and it is carried out in an effective manner. |
| 12. | More lab practical classes to be increased | |
| 13. | Try to teach in practical way that will be more helpful in future. In programming hands on is more important so the teachers try to tell the students to do the hands on. | |
| 14. | Digital communication, EMF wants to be removed | In 2019 Regulation –These courses are removed and Analog and Digital Communication Course is introduced |
| 15. | More course related to their core | Professional elective and Open elective courses which are related to the coreare included in the curriculum. Based on student's interest they can select the course and study. |
| 16. | Give practical examples instead of theory | **19ECPN6401 – Mini Project** is introduced for effective learning |

| | | |
|---|---|---|
| 17. | Encourage more peer to peer learning | and it is carried out with periodical reviews by giving feedback and comments to student's involvement and performances. |
| 18. | Teaching methods are good but live exposure is less | |
| 19. | More interaction required | Technical interactive sessions, practical sessions and hands-on sessions are given to analytical courses using the tools such as MATLAB, ADS tool and CADENCE tool based on the requirements. |
| 20. | Less Theory, More Practical learning | |
| 21. | Need to give more practical session | |
| 22. | More communication development can be done | |
| 23. | Need to spend 15 to 20 minutes how the concept is implemented in real life. More than teaching it should be like discussing. | **19PSHG6002 – Universal Human Values 2 : Understanding Harmony** is introduced for interactive learning process and recorded videos are posted in MS Teams as and when required for easy learning and understanding of the concepts |
| 24. | Teaching through Tab system should be modified | |
| 25. | Teachers need to be friendly | |
| 26. | Practice session should be introduced | Content delivery of analytical courses is made with tutorial sessions for better understanding of the concepts |
| 27. | Saturday everyone must attend any activities | **Spectrum – ECE Student organization** is active in conducting activities and seminarsand also various club activities are conducted by volunteer students to explore their talents. |
| 28. | More club involvement | |
| 29. | Please allow students to attend Club activities | |
| 30. | Need to organize events weekly once for one session by any one organization and any other organisations on upcoming week. Events should be like fun at same time it should be like learning. If students go for internship at 3rd yr even semester it will be useful for their placement. | Technical interactions by industry experts and alumni and career advancements programs are conducted. |
| 31. | More to industrial exposure | **19ECPN6001 – Internship or Skill Development** is introduced in the IV Semester in the curriculum and after completing internship program, reviews will be conducted as a part of it to evaluate their understanding level and performance during the program. |
| 32. | Need education tour | |
| 33. | Internship to be made compulsory for all the students | |
| 34. | Internship methods should be developed | |
| 35. | More activities to improve social awareness | **19PSHG3001 – Wellness for Students** course is introduced in the 2019 regulation to improve morality of students |

**Alumni Coordinator**
[S.Thilagavathi]

**Program Coordinator**
[Dr.V.K.Sudha]

**HoD/ECE**
[Dr. R.Sudhakar]

# Dr. Mahalingam College of Engineering and Technology

### Department of Electronics and Communication Engineering

### Feedback given by the Employer

### Academic year 2020-2021

| Feedback | Action taken |
|---|---|
| **Curriculum and Teaching learning process**<br><br>1. Python and R coding<br>2. Java and Object-Oriented Programming<br>3. Introduction to IoT and Machine learning<br>4. Industry Automation<br>5. Cloud Computing and data science<br>6. Basics of Data structure<br>7. VHDL programming and Testing<br>8. Basics of Linux<br>9. RTOS and its application<br>10. Basics of system Verilog Concept<br>11. Java Script Programming language<br>12. Basics of PHP<br>13. Caliber tool<br>14. Angular JS, DBMS and java Script language<br>15. PCB & 3D designing<br><br>**Teaching learning Process**<br><br>1. Hands-on session can be conducted wherever possible<br>2. Team works based activity and assignment<br>3. Co-operative learning<br>4. Assignment based on case study<br>5. Project based learning<br>6. Industry training<br>7. Mini project for MPMC and Embedded System | 1. The course Programming fundamentals in R is introduced as skill developmentcourse<br><br>2. Python programming course is included asOne credit course in 3$^{rd}$ and 4$^{th}$ semesters and as Open Elective.<br><br>3. The course 19ECCN1602 / Internet of Things was introduced as Open elective by the ECE department.<br><br>4. The VHDL programming was introduced in VLSI course and in VLSI Lab<br><br>5. As per feedback given, RTOS basics is added in 16ECT64 Embedded System design.<br><br>6. Students are encouraged to do FORGE protosem Program undergone by industry elective courses in 7$^{th}$ Semester and also innovative and creative project in curriculum.<br><br>7. As a part of internal assessment assignments based on case study were given to the students in each subject. Team work, co-operative and skill-based learning are encouraged through innovative projects in IV, VI & |

| | VIIIsemesters. |
|---|---|
| **Placement and training**<br><br>1. Strong Knowledge in Aptitude and Reasoning.<br>2. Communication Skill should be improved. | 1. Specific training for Aptitude and Programming is given to students by six phrase External Training Agency<br><br>2. Communication Skill I & II is included in curriculum and syllabus to improve language skills of the students |

File Incharge            PC                        HoD/ECE

**Dr.Mahalingam College of Engineering and technology, Pollachi-03**

**Department of Electronics and Communication Engineering**

**Action Taken Report for Expert Feedback**

**AY 2020-2021**

| S.No. | Feedback Given | Action Taken |
|---|---|---|
| 1. | Industry Focused training is required. | Industry focused training is provided in OCC and Value added courses. |
| 2. | Practical Sessions are required | Practical sessions were available for Laboratory courses and also inbuilt lab theory courses. |
| 3. | Introduce Labs for Communication networks and include open source tools for simulation. | Open-source tools were taught in Networks lab from 2016 regulation onwards. |
| 4. | CNTFET and FINFET concepts can be included. | CNTFET and FINFET concepts can be included in next regulation. |
| 5. | Introduce Networking courses. | Networking course is being taught in Computer communication Networks and Networking OCC in 2019 regulation. |
| 6. | Communication protocols can be added. | Is taught in Computer communication Networks |
| 7. | Practical applications should be included in Microcontroller course. | Inbuilt lab component is added in Microcontroller and its interfacing techniques theory course where practical sessions were provided. |
| 8. | FPGA, ASIC related concepts can be added in VLSI Course. | FPGA concepts were taught in VLSI design course. ASIC concepts were available in ASIC design professional elective course. |
| 9. | Include Artificial Intelligence, Data Science, Hybrid electric vehicles | Artificial Intelligence and Hybrid electric vehicles Course is offered to students as Open elective Courses in 2019 Regulation. Data science Lab is offered to students in 2019 Regulation. |

for **File In-Charge**

**Program Coordinator**

**HOD/ECE**

**DR.MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY, POLLACHI**

**DEPARTMENT OF ELECRTONICS AND COMMUNICATION ENGINNERING**

## Action taken report for 2020-2021 Feedback (Faculty)

| S.No | Feedback Given | Action Taken |
|------|----------------|--------------|
| 1 | Z transform topic can be moved to Digital Signal Processing subject,so that discrete system analysis will be easy for students | As per feedback topic is included in the course 19ECCN2501 Digital Signal Processing in the curriculum syllabus-2019 Regulation |
| 2 | Artificial Learning an can be included Argument reality (AR) and Virtual Reality (VR) can be included | As per feedback the course 19ECOC1005 Artificial Intelligence is introduced in the curriculum syllabus-2019 Regulation |
| 3 | Design of simple power supply & relay driver circuit using BJT/FET can be added | As per feedback experiment is included in the course 19ECCN3301 Analog Circuits-I laboratory in curriculum syllabus-2019 Regulation |
| 4 | Nanomaterial and battery system for Pace maker system,ECC,EEG must be introduced and ECG applications with practical application is needed in syllabus<br><br>Environmental studies must have creative project submission marks weightages | Feedback is introduced in the course 19ECEN1014 Biomedical Electronics in curriculum syllabus-2019 Regulation |
| 5 | Machine Learning & Artificial Learning | Feedback is introduced in the course 19ECEN1014 Biomedical Electronics in curriculum syllabus-2019 Regulation |
| 6 | Implementation of programming languages in core subjects like DSP, Signals and System and Communication systems | As per feedback in-built Laboratory for course 19ECCN2501 Digital Signal Processing is introduced in the curriculum syllabus-2019 Regulation |
| 7 | Hardware/Sensor based Laboratory (Either with Raspberry Pi Or Node MCU) | As per feedback experiment is included in the course 19ECCN3502 Data Science Laboratory in the curriculum syllabus-2019 Regulation |

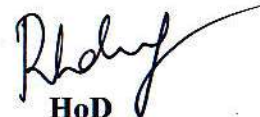**File- Incharge**          **Programme Coordinator**          **HoD**

# Dr.Mahalingam College of Engineering and Technology, Pollachi-03
## Department of Electronics and Communication Engineering
### Action Taken report for 2019-20 Alumni Feedback

| S. No | Feedback Given | Action Taken |
|---|---|---|
| 1. | Design thinking must be introduced to all students. | Open Electivecourses are included in the curriculum |
| 2. | More programming languages can be included | 19ECCN3502 - Data Science Laboratorycourse and Data Science using Python Programming –OCC courses are given as a part of curriculum. |
| 3. | IT related programs to be given for all the department | |
| 4. | Please give importance to machine learning and Artificial intelligence in Computer science | • Data Science, Machine Learning and Artificial Intelligence Courses are offered. Students can choose the subjects as elective course and study. |
| 5. | Courses more of practical to be introduced and theory should be modified or removed | • Recorded videos for required contents are shared among the students through MS Teams |
| 6. | Courses based relevant Research disciplines | • Interactive sessions, Hands-on sessions and Doubt clarification sessions are also conducted effective delivery of the contents. |
| 7. | Centre of Excellence for Machine Learning and Data Science | |
| 8. | Modify mission 10x learning methodology and introduce more courses related to engineering hands on experience | |
| 9. | Courses about cloud and AI | |
| 10. | For Electronics still more COE can be opened | **19ECOC1002 - CONSUMER ELECTRONICS** open elective course is introduced in relation to core |
| 11. | SQL learning , Cisco certified course have good values | **OCC – Fundamentals of Networking** is preferably given to students with alumni interaction from alumni working in the domain |
| 12. | Could add personality development program | **19PSHG6501 - Employability Skills 1: Teamness and Interpersonal Skills** is introduced for effective presentation |
| 13. | Something related to AI , Machine Learning , Cloud and Data science | OCC – Data Science using Python Programminghelps students to build their career in data science |
| 14. | Courses regarding recent emerging domains such as AI, RF optimization, VLSI design. | **Value Added Courses on RF and VLSI domains** are given for student's knowledge enrichment |
| 15. | ASIC centre lab with practical sessions to be introduced | |
| 16. | Civil service exam coaching should be Modified | **Higher studies Cell of MCET** organizes webinars on coaching |

| | | |
|---|---|---|
| | | and Mentoring for UPSC Exams |
| 17. | Teaching and learning methods should be modified with more off self learning method | **19ECPN6401 – Mini Project** is introduced as a part of curriculum for effective learning. And interested students are motivated to do Mini projects and to participate in project expo/competitions conducted by industries and academic institutions. (Students participated in project competition conducted by Texas Instruments) |
| 18. | Power point presentation, provide some animated videos, involve students in doing mini projects for each course | |
| 19. | Lab sessions should be of both theoretical and practical combination. | 19ECCN3302 – Digital Principles and System Design and Analog and Digital Communication Courses aregiven with theory and practical in the same semesters. |
| 20. | Mentor period can be introduced and the mentor must follow each and every students development and help to do so. | Mentoring sessions are carried out for each and every class and a mentor is allocated with a batch of15 students to monitor student's academic performance, achievements and for personal motivation. |
| 21. | Introduce new digital courses | **MCET - Cousera Digital Learning** is bought to benefit the students and staffs |
| 22. | More personal training should be included | **Placement Training** includes individual training on interpersonal skills and other soft skills enhancement |
| 23. | Make sure that all the students are involving in any of the clubs | **Club activates** are more associated and it is monitored by class coordinators and mentors periodically. |
| 24. | Need to give more industry experience to students | **19ECPN6001 – Internship or Skill Development courses**areintroduced in the IV Semester as vocational courses. |
| 25. | Internship period and professional side should be improved | |
| 26. | Japanese language want to be introduced | **Higher Studies Cell of MCET** conducts Japanese Language learning program for the benefits of students. |
| 27. | Encourage students to do projects in clubs and permission for doing events | **Clubs** conduct competitions and participants are encouraged to do so. |
| 28. | Introducing more Communication Programs | |
| 29. | Hands on trainings, webinar and more guest lecturers from experienced person can improve knowledge | • Alumni Interactionsessions are arranged in online/offline mode for technical and non-technical topics periodically.<br>• Webinar sessions are arranged for students and Faculty members by industry experts. |
| 30. | Arrange more session with alum ni who got selected on campus, doing higher studies or with guys who got placed on/off camp drive to know more about the professional approaches and the field where many of the student should concentrate, instead of directly going with industry people which will be a huge knowledge to carry and process for future. | |

| 31. | Internship can be made compulsory. | |
|---|---|---|
| 32. | Internships for final years to be introduced to learn about the real things | 19ECPN6001 – Internship or Skill Development courses are introduced in the IV Semester as a part of curriculum and the progress of students is reviewed by faculty members. |
| 33. | At least allow a student to go to internship once a year | |
| 34. | Please provide the proper internship. Because when we out from the college we are facing so many problems to get a job. So kindly, provide the valuable internship. | |

**Alumni Coordinator**

[S.Thilagavathi]

**Program Coordinator**

[Dr.V.K.Sudha]

**HoD/ECE**

[Dr.R.Sudhakar]

# Dr. Mahalingam College of Engineering and Technology
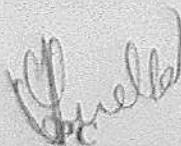
Department of Electronics and Communication Engineering
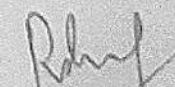
Feedback given by the Employer

Academic year 2019-2020

| Feedback | Action taken |
|---|---|
| **Curriculum and Teaching learning process** <br><br> 1. R language for Data Science <br> 2. Online Course and Contest <br> 3. Machine learning and AI based Courses <br> 4. RTOS and its application <br> 5. Serial Communication protocol and its application in automobile industry. <br> 6. Introduction to Cloud and IoT <br> 7. Industry 4.0 <br> 8. Industry Automation <br> 9. Reverse Engineering <br> 10. UI and Design Skills <br> 11. PLC based programming <br><br> **Teaching learning Process** <br><br> 1. Team works based activity and assignment <br> 2. Assignment based on case study <br> 3. Project based learning <br> 4. Industry training <br> 5. Hands-n exercise on CAN and 12C protocol <br> 6. Mini project for MPMC and Embedded System | 1. The Course Data Science using R Provided as One Credit Course. <br><br> 2. As per the feedback given, RTOS basics and its operations is added in 16ECT64 Embedded System design course <br><br> 3. The Course industry Automation is provided as Open elective in curriculum and syllabus <br><br> 4. Students are insisted to actively participate in internship to acquire industrial Knowledge. <br><br> 5. Students are allowed to do mini project in domain of their interest to acquire adequate Skills. |
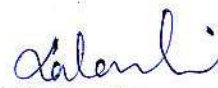
File / Incharge                    PC                    HOD / ECE

# Dr.Mahalingam College of Engineering and Technology, Pollachi

## Department of ECE

## Action taken Report for Expert Feedback

## AY 2019-2020

| S.No | Feedback Given | Action Taken |
|------|----------------|--------------|
| 1 | FSM in VLSI design | Is taught in Laboratory courses with hands-on using Xilinx ISE and FPGA implementations |
| 2 | Don't give limit in elective paper selection | Open elective (OE) given to the students (Inter department course also included) |
| 3 | Lambda based rules ,colour coding techniques(stick and layout)can be included. | Is taught during theory sessions of NMOS and CMOS based design implementations |
| 4 | Assessment can have some more depth questions to evaluate higher order thinking skills of the students. | Assessment (CCET) questions are framed for the students to test their skills |
| 5 | Add 8051 microcontroller in practical sessions both in assembly and embedded C | Is taught in Laboratory courses (Microprocessor and Microcontroller Lab) |

**File In-Charge**
(S. kalaiselvi )

**HOD**

# DR.MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY, POLLACHI

## DEPARTMENT OF ELECRTONICS AND COMMUNICATION ENGINNERING

### Action taken report for 2019-2020Feedback (Faculty)

| S.No | Feedback Given | Action taken |
|------|----------------|--------------|
| 1. | For, Transmission line and Waveguide, In-built lab can be included as a part of new Curriculum | As per feedback the course 19ECCN2301-Transmission Lines and Waveguides is introduced in curriculumsyllabus-2019 Regulation |
| 2. | Can include System Verilog-VLSI Design in the tools to be given in Curriculum | The Course19ECBC6003-System Design using Verilog HDL is given as One Credit course |
| 3. | IoT,Data science, Machine Learning can be introduced as courses | As per feedback the course 19ECCN1602-Internet of Things is introduced in curriculum syllabus-2019 Regulation |
| 4. | Digital Electronics course can be redesigned to be as a separate laboratory session so that, theory can be learnt practically | 19ECCN3302 Digital principles and system Design Laboratory is introduced in curriculum syllabus-2019 Regulation |
| 5. | Application of tuned amplifier can be included | As per feedback the course 19ECCN1301-Analog Circuits-1 is introduced in curriculum syllabus-2019 Regulation |
| 6. | 5G technologies and latest Bluetooth technology can be included. Introduction of latest multiplexing techniques in Digital Communication can be included | The course (16ECO56/16ECO66) Bluetooth Technology is given as One Credit course |
| 7. | Data Science and Internet of Things Courses can be included | As per feedback the course 19ECCN3502-Data Science Laboratory is introduced in curriculum syllabus-2019 Regulation |
| 8. | MIMO-5G NR (New Radio) Technology can be introduced | As per feedback the course 19COEN1205-MIMO System (PG) is introduced in curriculum syllabus-2019 Regulation |
| 9. | R tool can be introduced | As per feedback the course 19ECOC1004-Data Science Using Hadoop with R is introduced in curriculum syllabus-2019 Regulation |

File-Incharge        Programme Coordinator        HoD

# Dr.Mahalingam College of Engineering and Technology, Pollachi-03
## Department of Electronics and Communication Engineering
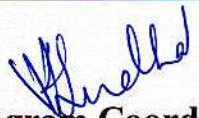### Action Taken report for 2018-19 Alumni Feedback

| S. No | Feedback Given | Action Taken |
|---|---|---|
| 1. | Internship to core companies such as Intel, Texas Instruments can be provided | 19ECPN6001 – Internship (or skill development) during $4^{th}$ semester -2 weeks and $6^{th}$ semester – 2 to 4 weeks is made as mandatory in 2019 Regulation curriculum for students to enhance their practical learning through industries |
| 2. | Workshops/Seminars on Emerging Technologies, Practical oriented teaching methods can be implemented. Assignments can be modified into implementing mini projects and students can be encouraged to learn about how a real world application works and make them present their learning to score internals. | 19ECPN6401 – Mini Project is included in curriculum during $4^{th}$ semester to make the students to learn and do analysis on a simple real world problem and to get into the solution. |
| 3. | Introduce: Toastmasters, Reading club, Learning grooming /Professional grooming sessions. Career planning and guidance to be improved | Career planning and Guidance cell splits the students into groups based on their interest (placement/ higher studies/ entrepreneurship) and training them accordingly. |
| 4. | Strengths: Strong student body. Office bearer's elections are via nomination from department. Ensure multi-factor selection methods including student's feedback, staff feedback, interviews, etc. for all the roles. Conduct more ice-breaking sessions to improve communication skills. | Students for various student's bodies like Student Guild of Service (SGS) and department associations are nominated by the respective departments based on the feedback from both students and faculty members and they are selected by personal interviews. |
| 5. | Alumni can present their work experience to the students | Alumni interactions and guest lectures are arranged as and when required for students to make them to industry as competitive employers. |
| 6. | Freedom to work on our ideas and support by staff members. More hands-on training / classes with real world reasons / experience can be introduced | Analytical courses like 19ECCN2501 - Digital Signal Processing and 19ECCN2301-Transmission Lines and Waveguides are introduced with in-built lab component for better understanding and practical learning of the concepts. |
| 7. | Students can be encouraged to do more online courses in sites like Coursera and NPTEL that adds value to their resume. | Students are motivated to do online courses through NPTEL |
| 8. | Machine Learning courses can be introduced | 19ECCN1702-Machine Learning course is introduced in curriculum as a core course |

**Alumni Coordinator**
[S.Thilagavathi]

**Program Coordinator**
[Dr. V.K.Sudha]

**HoD/ECE**
[Dr. R.Sudhakar]

# Dr.Mahalingam College of Engineering and Technology
## Department of Electronics and Communication Engineering

Curriculum Feedback given by the Employer

Academic year 2018-2019

| Current technologies and tools be included in curriculum | Techniques and methods may used for effective learning | Negative aspect to be avoided in a curriculum |
|---|---|---|
| 1. Low power VLSI<br>2. IoT and Cloud Computing<br>3. Mobile App Development<br>4. Embedded Systems and Real time operating systems<br>5. PCB Design<br>6. Robot design<br>7. Embedded Programming<br>8. Mini project<br>9. Java kernel programming | 1. Caliber tool<br>2. Mentor graphics tool<br>3. Self-Learning and Project<br>4. Data science<br>5. Organic Electronics<br>6. Industry visit<br>7. Demonstration of Real time problem | 1. Black board teaching |

Action taken report for 2018-2019 feedback

| S.No | Feedback given | Action taken |
|---|---|---|
| 1. | IoT and cloud computing based topics can be included | The course 16EI035/16EI045 Internet of things is given as One Credit Course |
| 2. | Embedded Systems and Real time operating systems can be included | As per the feedback 16ECT64 Embedded System design course is given with in-built lab component |
| 3. | Embedded Programming can be included | As per the feedback embedded C programming concept was introduced in (16ECT54,16ECI51) and embedded system design lab(16ECT64) |
| 4. | Java programming can be included | As per the feedback java programming offered as elective course for third year fast track students |

J. SenD

File-Incharge

(J. Senthilkumar)

HOD/ECE

# Dr.Mahalingam College of Engineering and Technology, Pollachi

## Department of ECE

## Action Taken Report for Expert Feedback

## AY 2018-2019

| S.No | Feedback Given | Action Taken |
|------|----------------|--------------|
| 1 | Encourage Online Courses | Recently online certification is encouraged and students who complete online courses successfully are exempted from doing assignments in core courses. |
| 2 | Hybrid vehicles & Smart grid concepts can be included | Hybrid Vehicles were included in the Open elective list for final years from 2016 Regulation |
| 3. | IOT, Cloud Computing and Open Source Software can be included | Is offered through OCC and Value added courses |

**File In-Charge**
(S. kalaiselvi)

**HOD**

# DR.MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY, POLLACHI

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### FACULTY FEEDBACK 2018-19

| Current Technologies and Tools to be included in curriculum | Techniques and Methods may used for Effective Learning |
|---|---|
| Integrated Lab with theory can be increased (no. of subjects) Some of the concepts like discrete systems and Z transform can be moved to DSP | More Practical design questions can be asked in the class with respect to the technical topic which will improve the analytical ability |
| Block chain Technology Unix and python Programming can be included | Paper presentation for project work can be done |
| Programming based courses are to be increased in the curriculum | More Number of domain based elective courses are to be raised to have effective learning Sufficient number of fundamental core courses are to be in curriculum for effective learning |
| A part of assembly language programming may be added | |
| | Esim can be used for Circuits Lab |
| Hands on training for RF Communication can be included as a part of curriculum | |
| 4 G Networks and above can be included | Video Presentation need to be encourage |
| Printed Circuit Board fabrication can be included as on One credit course Advanced Technology based electives & Courses can be included in curriculum | Tablet utilization can be done for placement activities also |
| Machine Learning, IoT can be included Caliber Tool can be included in course of study | Mini Project and Application orientated teaching must be increased Idea Presentation must be improved |
| Machine Learning and Artificial intelligence must be included | Apps related to course may be identified and the same may be used in class to induce practical learning |
| 5 G Antennas can be included | |
| Millimeter Wave Communication can be included | |
| EMF wave guide component structure design can be introduced EMI & EMC can also be included | |

File-Incharge

[ GOKUL ANAND KR ]

Programme Coordinator

HoD

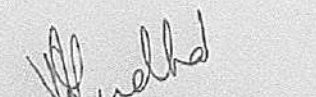| S.No | Feedback Received | Action Taken |
|------|-------------------|--------------|
| **Courses of study to be strengthened and reinforced** | | |
| 1. | Provide internship on their respective domain and the intern should be converted into full time | The VIII Semester is completely dedicated for internship and industry projects for students who have the ability to complete the course subjects within seventh semester (i.e, under Fast track schedule) |
| **Input regarding "Strategies for Core Placement process"** | | |
| 2. | Placement training and discussion about that was done only in final year. | The training sessions are implemented right from II year. |
| 3. | Weekly once period for placement regarding core must be given Instead of keeping placement core classes after 5 pm, we can have one complete day in a week, which will be helpful for students as well as teachers to help us. | Schedule for placement training(Technical and C-programming) is done within the working hours throughout the VI semester. |
| 4. | Technical training class to be initiated at the  middle of their course | |

**Staff In-charge**
REKA.D

PC

HOD

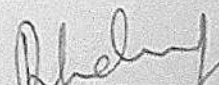# Dr.MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY, POLLACHI

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Action taken report for 2017-2018 Feedback

| S.No | Feedback Given | Action Taken |
|------|----------------|--------------|
| 1 | Python Programming, Data science topics can be included in the syllabus. | As per the feedback the course 16ECO36/16ECO46 Data Science with Python Programming is given as One credit course. |
| 2 | IOT related topics can be included in the subject. | The course (16EIO35/16EI045) Internet of Things is given as One credit course. |
| 3 | Basic course on data analysis using R and Python programming can be included. | One credit course for 16ECO31/16ECO41 - Data Analysis with R is included in the syllabus. |
| 4 | Need to include Hands on exercise for different networking components | One credit course for Fundamentals of networking (16ECO35/16ECO44 is included in the syllabus. |
| 5 | Embedded C programming topics can be included in the subject | As per the feedback the embedded c programming concept was introduced in microprocessor and microcontroller (16ECT5, 16ECL51) and embedded system design (16EC64) subject |
| 6 | Need to include IC design and fabrication techniques | IC design and Testing topics included in VLSI design (16ECT62) subject |
| 7 | Theory paper could be thought with practical information | In-built lab component added in the following subject<br>1.16ECT62/Embedded System<br>2.16EE31/Digital Electronics |

File In-Charge        Programme Coordinator        HOD

# Dr.Mahalingam College of Engineering and Technology, Pollachi

## Department of ECE

## Implementation Report for Expert Feedback

## AY 2017-2018

| S.No | Feedback Given | Action Taken |
|------|----------------|--------------|
| 1 | Scripting Languages like Python and Tcl etc can be included in the Curriculum | Python Programming course is offered as elective in the revised curriculum (from 2014 R Regulation) |
| 2 | Experts suggested to add the Information Coding Concepts in Communication Theory course. | IC concepts were included in the course-Communication theory from 2016 Regulation |
| 3. | Artificial Intelligence can be given as new course in the Curriculum | AI is offered as Open Elective course from 2014 R Regulation. |
| 4 | Static timing and Clock domain grouping (CDC) and Physical Design Flow has to be given in order to understand the Physical Design of IC's. | Is offered in OCC with expertise from Company Technical Engineers and industry standard tools. |
| 5 | Verilog and System Verilog HDL and UVM can be included in the curriculun | Is offered through OCC (System Design using Verilog HDL) and Value added courses |
| 6 | Guest Lectures / Seminars has to be given by Industrial Experts | Industry experts are called for Seminars and guest Lectures on specific topics through department association, professional societies. |
| 7 | Projects based learning can be encouraged to the students in order to improve Practical oriented learning. | Instead of assignments mini-Projects are given to students in few elective courses like CMOS analog IC design, VLSI Design and Digital image Processing. |
| 8 | New tools in Embedded and PCB Design area should be taught to the students. | Mentor XP edition tool is used to train students in PCB design. |
| 9 | Linux OS can be used in Laboratory | Yes licensed version of Linux tool is used in Laboratories |
| 10 | Online Courses should be encouraged to take up in every semester by the students | Recently online certification is encouraged and students who complete online courses successfully are exempted from doing assignments in core courses. |

**File In-Charge**

[S.Kalaiselvi]

**Programme Coordinator**

(Dr. Sudha V.K.)

**HOD**

# Dr.MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY, POLLACHI

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Action taken report for 2017-2018 Feedback (Faculty)

| S.No | Feedback Given | Action Taken |
|------|----------------|--------------|
| 1 | Python Programming, Data science topics can be included in the syllabus. | As per the feedback the course 16ECO36/16ECO46 Data Science with Python Programming is given as One credit course. |
| 2 | IOT related topics can be included in the subject. | The course (16EIO35/16EI045) Internet of Things is given as One credit course. |
| 3 | New topics can be included in the Embedded System design. | Based on the feedback from the faculty the course 16ECT64- Embedded System Design is included with some new advanced topics. |
| 4 | Yagi-Uda array can be included in the session of antenna arrays. | For the course 16ECT55- Antenna Design and Wave propagation yagi-Uda antenna array topic is included in the unit of antenna arrays. |
| 5 | Design related topics has to be supported with simulations. | For VLSI course, design related topics and experiments are included in the one credit course of 16EIO53/16EIO63 - System Design Using Verilog HDL. |
| 6 | Advanced simulation tools has to be used to make students to have better understanding of difficulty concepts. | For better understanding, antenna design techniques are given as lab experiments in the one credit course of 16ECO55/16ECO65 - RF Circuit Design Using ADS. |
| 7 | Basic course on data analysis using R and Python programming can be included. | One credit course for 16ECO31/16ECO41 - Data Analysis with R is included in the syllabus. |

File In-Charge          Programme Coordinator          HOD

# Dr.Mahalingam College of Engineering and Technology, Pollachi.

## Department of Electrical and Electronics Engineering

## In-direct Assessment –Action taken (2017-18)

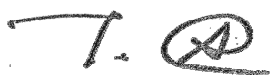| Recommendations/Action to be taken | Responsibility | Status |
|---|---|---|
| **Curriculum and Teaching –Learning:**<br><br>• NPTEL Course can be introduced<br>• Industry IOT can be introduced<br>• Technical simulation tools can be introduced<br>• Technical report writing can be given as a major improtance | OBE Coordinator & BOS Convener | • The students are motivated to register for online courses<br>• Course will be added in the curriculum |
| **Placement and Higher education:**<br><br>• Motivation students for Internship and Inplant training<br>• Arrange STEP program using Industry Experts<br>• Training for Core and IT industry are need to be provided | Placement Coordinator | • Suggested companies for students to attend internship and Inplant training<br>• Arranged program with the help of Alumni<br>• Technical reining will be provide by the faculty team |

**Faculty Incharge**

**HoD**

# Dr.Mahalingam College of Engineering and Technology, Pollachi.

## Department of Electrical and Electronics Engineering

## In-direct Assessment –Action taken (2018-19)

| Recommendations/Action to be taken | Responsibility | Status |
|---|---|---|
| **Curriculum and Teaching –Learning:**<br><br>• Need product development knowledge for students aligned with courses<br>• Introduce some OCC courses regarding automation<br>• Advance simulation tools can be introduced to the students<br>• | OBE Coordinator & BOS Convener | • Product based learning has been incorporated in 2016 regulation<br>• Planning to provide in the upcoming curriculum<br>• Some advanced tools are planned for the upcoming curriculum |
| **Placement and Higher education:**<br><br>• Students communication talents can be improvised<br>• Coding skills are need to be improvised by the students | Placement Coordinator | • Both technical and general communication practice sessions were arranged for the students<br>• Training on Coding skills were planned |
| **Infrastructure:**<br>College Bus seems to be over Crowded. | Infrastructure Coordinator | Bus facilities are improved by adding new bus route and also increased the bus count. |

**Faculty Incharge**

**HoD**

# Dr.Mahalingam College of Engineering and Technology, Pollachi.

## Department of Electrical and Electronics Engineering

## In-direct Assessment –Action taken (2019-20)

| Recommendations/Action to be taken | Responsibility | Status |
|---|---|---|
| **Curriculum and Teaching –Learning:**<br><br>• Need product development knowledge for students aligned with courses<br>• Large signal amplifiers can be added in electronic circuits<br>• Verilog can be included in Digital electronics separately<br>• Bio informatics course can be suggested for the students<br>• Simulation tools can be introduced<br>• Introduction to BMS can be provided. | OBE Coordinator & BOS Convener | • Product based learning has been incorporated in 2016 regulation<br>• The course will be added in electives in R2023 curriculum<br>• The suggested content is included in the digital electronics course<br>• The course will be added in 2023 regulation |
| **Placement and Higher education:**<br><br>• Equal importance and training should be given both IT and NON IT industry during placement<br>• Step programmes need to be conducted with industry persons for the students to know what actually a industry experts from a student to employ him/her<br>• Students can be given more exposure to industries during their course. Like some sort of intern or apprentice program. | Placement Coordinator | • Technical training will be given by the faculty team.<br>• Arranged STEP programmes with the help of Alumni.<br>• Internship is introduced with weightage in 2019 regulation |

**Faculty Incharge**

**HoD**

# Dr.Mahalingam College of Engineering and Technology, Pollachi.

## Department of Electrical and Electronics Engineering

## In-direct Assessment –Action taken (2020-21)

| Recommendations/Action to be taken | Responsibility | Status |
|---|---|---|
| **Curriculum and Teaching –Learning:**<br><br>• Artificial Intelligence and machine Learning course can be introduced<br>• IoT, Networking, 5 G technology can be introduced to students<br>• Electric vehicle development<br>• Design using sensors systems and Automation circuit design<br>• Industrial Clouds and Apps, Healthcare Electronics<br>• Railway Signaling course can be introduced | OBE Coordinator & BOS Convener | • The course have been introduced in 2019 regulation curriculum<br>• IOT OCC has been introduced for III year, 5G lab has been established on C block (C324)<br>• Encouraging students to attend more context related to electrical vehicle development<br>• Industrial Automation technologies has been introduced in 2019 Regulation as OCC in BOSCH REXROTH Centre.<br>• Recommended for 2023 regulation curriculum |
| **Placement and Higher education:**<br><br>• Improvements needed on programming skills and communication skills | Placement Coordinator | Extra classes have been scheduled to provide coaching on programming and communication skills |

**Faculty Incharge**

**HoD**

# Dr.Mahalingam College of Engineering and Technology, Pollachi.

## Department of Electrical and Electronics Engineering

## In-direct Assessment –Action taken (2021-22)

| Recommendations/Action to be taken | Responsibility | Status |
|---|---|---|
| **Curriculum and Teaching –Learning:**<br><br>• Verilog design courses, RTL design & verification courses, Need more practical Knowledge on electronic circuits & devices<br>• Can give more concentration on block chain and newer technology<br>• R based programming language Industrial IOT<br>• Python programming need to be introduced<br>• New courses like PCB, PI, SI can be introduced as OCC<br>• Embedded systems can be strengthened<br>• New course like industry 4.0 can be added<br>• Bio sensors can be added in curriculum<br>• Data analysis can be introduced<br>• AI fundamentals can be introduced | OBE Coordinator & BOS Convener | • New courses which were suggested by the stake holder will be recommended for 2023 regulation curriculum<br>• Many recommended course have already been introduced in 2019 regulation curriculum |
| **Placement and Higher education:**<br><br>• Communication classes can be given to the students to develop communication skills for placement.<br>• Two industrial visit can be arranged for students. | Placement Coordinator | Communication Skill Training was given separately.<br><br>Planning for industrial visit where students can gain more knowledge and recent trends. |

**Faculty Incharge**

**HoD**

# Dr.Mahalingam College of Engineering and Technology, Pollachi

# Department of Electronics and Instrumentation Engineering

# Indirect Assessment–Action taken Report  AY 2021-2022

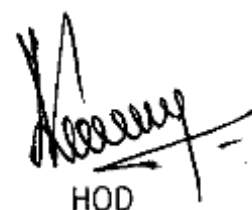| Recommendations/Action to be taken | Responsibility | Status |
|---|---|---|
| **Curriculum and Teaching –Learning:**<br>• Experts suggested to include ARM based experiments in MPMC lab.<br>• Experts suggested to include real time implementation of surrounding environment such as sensor interfacing.<br>• Aluimi suggested firewall, gateway, Riddel based function network, TMS320X topics to add. | OBE Coordinator<br>&<br>BOS Convener | • As per the suggestion the topics added in 2019 curriculum. |
| **Placement and Others:**<br>• To increase the industry environment knowledge arrange more industry visit and trainings. | IAPC In-charge | • Internship and more than two days industry visit and industrial tour can be introduced in 6$^{th}$ and 8$^{th}$ semesters. |

HOD

# Dr.Mahalingam College of Engineering and Technology, Pollachi

# Department of Electronics and Instrumentation Engineering

# Indirect Assessment–Action taken Report  AY 2020-2021

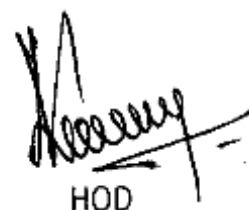| Recommendations/Action to be taken | Responsibility | Status |
|---|---|---|
| **Curriculum and Teaching –Learning:**<br><br>• As per the experts and stakeholders request the PLC/SCADA and DCS programming added in the 2019 Curriculum.<br><br>• Members perused the syllabus and suggested to add Analog Electronics course.<br><br>• Academic experts suggested to add new sensor topics in the curriculum. | OBE Coordinator & BOS Convener | • As per request the course have been introduced in 2019 regulation curriculum.<br><br>• PLC/SCADA and DCS programming are added in Process control lab experiments.<br><br>• Analog Electronics course add in the 3rd semester both theory and practical level.<br><br>• New sensor topics added in the smart and wireless instrumentation course. |
| **Placement and Higher education:**<br>• Experts and stakeholders suggested to improve core company based programming skills and interest. | Placement Coordinator | • Core Company training and practice is conducted during weeks days evening time and sample question and test are conducted. |



HOD

# Dr.Mahalingam College of Engineering and Technology, Pollachi

# Department of Electronics and Instrumentation Engineering

# Indirect Assessment–Action taken Report  AY 2019-2020

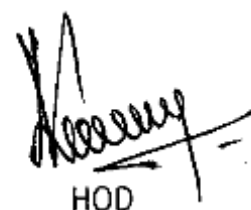| Recommendations/Action to be taken | Responsibility | Status |
|---|---|---|
| **Curriculum and Teaching –Learning:**<br><br>• Requested to assess C programming course in practical mode<br><br>• Suggested to offer Python programming course instead of java programming as practical and theory course<br><br>• The new courses should introduced as core and elective courses in recent technology and meet the industry expectations | OBE Coordinator<br>&<br>BOS Convener | • Incorporated the point to give more weightage for c-programming practical sessions<br><br>• The new courses were introduced as core and elective courses in recent technology and meet the industry expectations |
| **Placement and Higher education:**<br><br>• Equal importance and training should be given both IT and NON IT industry during placement<br><br>• Step programmes need to be conducted with industry persons for the students to know what actually a industry experts from a student to employ him/her<br><br>• Students can be given more exposure to industries during their Course. Like some sort of intern or apprentice program. | Placement Coordinator | • Technical training will be given by the faculty team.<br><br>• Arranged STEP programmes with the help of Alumni.<br><br>• Internship is introduced with weightage in 2019 regulation |

HOD

**Dr.Mahalingam College of Engineering and Technology, Pollachi**

**Department of Electronics and Instrumentation Engineering**

**Indirect Assessment–Action taken Report  AY 2018-2019**

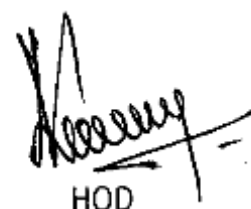| Recommendations/Action to be taken | Responsibility | Status |
|---|---|---|
| **Curriculum and Teaching –Learning:**<br>• Suggested to include IIOT course as one of the professional elective course<br>• Avoid theory and practical hour split-up in occ syllabus to avoid contraction in credits allocation<br>• Include different programming concepts of PLC in industrial Automation | OBE Coordinator & BOS Convener | • Included IIOT course as one of the professional elective courses<br>• Included different programming concepts of PLC in industrial Automation<br>• Incorporated the point to avoid theory and practical hour split-up in OCC syllabus to avoid contraction in credits allocation |
| **Placement and Higher education:**<br>• Students communication talents can be improvised<br>• Coding skills are need to be improvised by the students | Placement Coordinator | • Both technical and general communication practice session arranged for the students<br>• Training on were planned |

HOD

**Dr.Mahalingam College of Engineering and Technology, Pollachi**

**Department of Electronics and Instrumentation Engineering**

**Indirect Assessment–Action taken Report  AY 2017-2018**

| Recommendations/Action to be taken | Responsibility | Status |
|---|---|---|
| **Curriculum and Teaching –Learning:**<br>• NPTEL Course can be introduced<br>• Industry 4.0 can be introduced<br>• Technical simulation tools can be introduced<br>• Technical report writing can be given as a major importance<br>• New courses like PCB, LABVIEW can be introduced as OCC | OBE Coordinator & BOS Convener | • The students are motivated to register for online courses<br>• Course will be added in the 2019 curriculum. |
| **Placement and Higher education:**<br>• Motivation students for Internship and Inplant training<br>• Arrange STEP program using Industry Experts<br>• Training for Core and IT industry are need to be provided | Placement Coordinator | • Suggested companies for students to attend internship and Inplant training<br>• Arranged program with the help of Alumni<br>• Technical reining will be provide by the faculty team |

HOD

**P28 Stake Holders Involvement in the process improvement of PEOs POs and PSOs**

**Suggestions for Improvement and Impact Analysis from Stake holder surveys**

**Academic Year: 2017-2018**

| Activity | Suggestions for Improvement | Action Taken |
|---|---|---|
| Stake Holder Surveys | **Alumni Feedback**<br>• Students should aware about the handling of unstructured data so NOSQL database should be known to them.<br><br>**Students Feedback**<br>• Strength is Infrastructure<br>• Good management and staffs<br>• The facilities are awesome and guidance is good<br>• Strengths are Availability of Library, Laboratory, placement training and good team assistance<br>• In my point of view the improvements are already done<br>• Laboratory is strength<br>• The staffs are friendly and students can improve using them<br>• Update technologies | • MongoDB is introduced in DBMS course to handle unstructed data and also difference between structure and unstructured data is included in Business Intelligence and its Application elective course<br>• This motivate to continue the same or even more better<br><br><br><br>• New elective courses like Data analytics using R,XML and web services,Artificial intelligence and expert systems are introduced to update the student in new technologies |

| | | |
|---|---|---|
| | • Start placement training at the beginning of the third year<br><br>• Co-curricular and extra-curricular activities also to be motivated | • Placement training is started at the beginning of the semester<br><br>• Students are encouraged to participate co-curricular and extra-curricular activities in national level competitions |
| | **Faculty Feedback**<br><br>• Java Frameworks can be added as part of the syllabus.<br><br>• Web Design using PHP should be known to the students.<br><br>• Mobile based applications can be included. | • Java Frameworks is introduced as unit 3 in web Technology syllabus.<br><br>• PHP and MySQL is offered as one credit course.<br><br>• Android programming is provided as one credit course to strengthen the knowledge of the students in Mobile Application development. |
| | **Employer Feedback**<br><br>• Courses / topics may be include in curriculum are Robotic process automation, IoT, Mobile application development, MongoDB, Cloud Computing Students should aware about the handling of unstructured data so NOSQL database should be known to them. | • Robotic Process Automation is offered as Professional Electives.<br><br>• IoT, Mobile Application Development, Cloud Computing are offered as core course.<br><br>• Mongodb topic is included as part data base management systems syllabus. |

**File In-charge**
**(T.Sumathi)**

**HoD/IT**
**(Dr.S.Ramakrishnan)**
HOD - Information Technology
Dr. Mahalingam College of Engineering and Technology
Pollachi – 642 003

**P28 Stake Holders Involvement in the process improvement of PEOs POs and PSOs**

**<u>Suggestions for Improvement and Impact Analysis from Stake holder surveys</u>**

**Academic Year: 2018-2019**

| Activity | Suggestions for Improvement | Action Taken |
|---|---|---|
| Stake Holder Surveys | **<u>Alumni Feedback</u>**<br>• Linux Programming course can be offered with Lab to the students.<br>**<u>Students Feedback</u>**<br>• Up-to-date courses need to be introduced as electives for the students<br>• Give training of Aptitude learning, programming training<br><br>• Bring constant connection with senior and junior<br><br>• Outcome based training is good<br><br><br><br>• Make use of online courses | • Linux Programming is offered as one credit course<br><br>• Electives with recent trends are introduced<br><br>• Training scheduled for every semester and conducted periodically<br>• Special interest group activity and Association activities are strengthened<br>• Outcome based educational model in teaching learning will be continued as before. This motivates to even do it better<br>• Students can undergo online courses from NPTEL instead of elective course that is included in 2019 Regulation |

| | | |
|---|---|---|
| | **Faculty Feedback**<br>• Gaming theory can be added in the curriculum.<br>• R Programming with lab course can be offered to the students.<br>• Data Analytics course can be offered to the students.<br>• Google Colab and Numpy knowledge should be imparted to the students. | • Game Programming theory is added as lab elective course in the curriculum.<br>• R Programming is offered as one credit course.<br>• Data Analytics using R is added as Lab elective course in the curriculum.<br>• Scientific computing using python is provided as one credit course. |
| | **Employer Feedback**<br>• Problem Solving Skills of the students need to be improved.<br><br>• Courses / topics may be include in curriculum are Python Programming, Project Management, Block Chain, Data Analytics, Linux | • Linux Programming is offered as one credit course to the students.<br>• Data Analytics using R and Block Chain Technologies is added as Lab elective course in the curriculum.<br>• Introduced new courses called Advanced problem solving using C, java, and Python as elective courses.<br>   Software project management and principles of management courses are in the curriculum. |

**File In-charge**
**(T.Sumathi)**

**HoD/IT**
**(Dr.S.Ramakrishnan)**
HOD - Information Technology
Dr. Mahalingam College of Engineering and Technology
Pollachi - 642 003

**Dr. Mahalingam College of Engineering & Technology, Pollachi 642 003**
**(An Autonomous Institution)**
**Department of Information Technology**


**P28 Stake Holders Involvement in the process improvement of PEOs POs and PSOs**

**<u>Suggestions for Improvement and Impact Analysis from Stake holder surveys</u>**


**Academic Year: 2019-2020**

| Activity | Suggestions for Improvement | Action Taken |
|---|---|---|
| Stake Holder Surveys | **<u>Alumni Feedback</u>**<br>• Python Lab component course can be introduced as a full time lab with newer implementation experiments rather than logic implementation<br>• Programming practice is very good, that help us very much. | • Programming with Python Laboratory is introduced as core course.<br><br>• Developing Web Applications using .NET, Server side Programming, Data Analytics using R courses are introduced as elective courses for improving different programming techniques. |
|  | **<u>Students Feedback</u>**<br>• Include courses such as Machine Learning, React Native, Cloud Computing<br>• Can introduce the industry relevant emerging | • Courses to be included suggestions are included in curriculum as core, elective and OCC<br>• Scientific Python is offered as one credit course and Java Frameworks |

| | |
|---|---|
| technologies in curriculum rather than usual programming languages. | (Spring) is added as part of web technology course in the web technology syllabus, Data analytics in elective are included. |
| • Improve Programming courses | • Advanced problem solving using C and Advanced problem solving using Java are introduced in electives |
| • Practical learning is needed <br> • Need some more lab practices | • Theory with lab courses are introduced so that the students get more exposure in practical implementation |
| • Talking with students and guide them to achieve their goals. | • Mentors are assigned to the students to motivate and guide them. Mentoring hour is included in the timetable. |
| **Faculty Feedback** <br> • Suggested to include ARVR course as elective | • Augmented and Virtual Reality is offered as elective course to the students. |
| • Include Node JS, Angular JS, React JS as part of syllabus to enhance the skill in web development. | • React JS is offered as one credit course and Angular JS is offered as Elective Lab Course. |
| • Include Spring frameworks to develop web applications. | • Java Frameworks (Spring) is added as part of web technology course in the web technology syllabus 2019 regulation. |

| | |
|---|---|
| • Include Block Chain Technologies in the curriculum.<br>• Raspberry Pi concepts can be introduced.<br>• AI and big data concepts can be introduced<br><br>• Java Collections can be included.<br><br>• Introduced agile based software development model<br><br>**Employer Feedback**<br>• Courses / topics may be include in curriculum are Block chain, Software Defined Networking, AI, Python, Software design, Open Source. | • Block Chain Technologies is offered as a elective course.<br><br>• Automation using Raspberry Pi is offered as one credit course<br><br>• Big Data and Analytics is offered as elective course.<br><br>• Java Collections included as unit 5 in Advanced problem solving using Java elective course.<br><br>• Agile Project Development is offered as elective course.<br><br>• Block chain is offered as elective course to the students.<br>• SDN concepts are included in Computer networks course.<br>• AI, OOAD are offered as elective course to the students.<br>• Scientific Python is offered as one credit course. |

**File In-charge**
**(T.Sumathi)**

**HoD/IT**
**(Dr.S.Ramakrishnan)**
HOD - Information Technology
Dr. Mahalingam College of Engineering and Technology
Pollachi – 642 003

**Dr. Mahalingam College of Engineering & Technology, Pollachi 642 003**
**(An Autonomous Institution)**
**Department of Information Technology**


**P28 Stake Holders Involvement in the process improvement of PEOs POs and PSOs**

**Suggestions for Improvement and Impact Analysis from Stake holder surveys**


**Academic Year: 2020-2021**

| Activity | Suggestions for Improvement | Action Taken |
|---|---|---|
| Stake Holder Surveys | **Alumni Feedback**<br>• Provided importance on personality development skills.<br>• Placement trainings from the first year helped us to know about the industry requirements<br>• Offered latest technology learnings<br>• Courses were included in the curriculum that helped to gain knowledge.<br><br>• More projects should be assigned to students to learn new technologies and should be work independently | • Introduced two new professional skill courses to improve the employability skills of the students.<br><br><br>• AI and ML, Machine Learning using Python, Block Chain Technologies, Data Science Lab, Augmented and Virtual Reality, Computer Vision etc has been introduced as elective courses.<br>• Data Science Lab is included as part of Lab course for project implementation on latest technologies. |

| Activity | Suggestions for Improvement | Action Taken |
|---|---|---|
| | **Student Feedback**<br><br>• Introduce data science related courses<br>• Courses to learn upcoming technologies<br>• Introduce many latest technology courses like Machine Learning etc..<br>• Help students to get Practical knowledge in project development<br><br><br>• Add some futuristic courses like ReactJS and Angular etc.<br>• Framework should be added (Java -Collections ,JDBC ODBC, Web server, Python - Application development in MVC Framework)<br>• Introduce some additional courses with respect to corporate need | • Data Science Lab is included as part of Lab course<br>• Courses like Responsive Web Design, Blockchain Technologies Augmented reality and virtual reality and machine learning using python courses are offered as professional electives.<br>• Artificial intelligence and machine learning techniques along with lab component are introduced as professional electives<br>• Courses like ReactJS and AngularJS courses are offered as OCC<br>• The courses like Developing Web Applications using .NET and serverside programming are offered as professional elective courses<br>• Advanced problem solving using python is offered as professional elective course.<br>• Scientific computing using python is provided as one credit course. |

| Activity | Suggestions for Improvement | Action Taken |
|---|---|---|
| | • Introduce Web mining, deep learning <br><br> • Many students can't get internship opportunities so overcoming with this management should arrange an internship experience in campus itself. <br><br> • We are comparatively having a high knowledge in our stream from other college student. I came to know about this when i went to an internship or having a common conversation with other student. <br><br> • All teachers take care and make them teach in such an innovative manner. Teaching and guidance is so good. <br><br> **Faculty Feedback** <br> • Suggested to include gaming related technologies <br><br><br> • Flutter tool might be introduced to develop web and mobile app | • Deep learning course is offered as professional elective <br><br> • To increase the internship opportunities the internship is offered in curriculum to undergo in IV semester, VI semester and VII semester vacation <br><br><br> • This motivate us to continue with the skill development activity practiced in the department and even more to strengthen in future also <br><br><br><br><br><br> • Game Programming is introduced as elective course to enrich game development knowledge of the students. <br><br> • Responsive Web Design is developed as lab elective course to strengthen the knowledge of students in web development. |

| Activity | Suggestions for Improvement | Action Taken |
|---|---|---|
|  | • Angular JS framework may be used for developing web app <br><br> • Google Colab, Numpy can be included in Data Science Courses <br><br> • Mongo DB, MySQL can be used for unstructured data <br><br><br> **Employer Feedback** <br><br> • Courses / topics may be include in curriculum are Data Science, AI / ML, Block chain <br><br><br> • Problem solving skills are needed | • React JS and Angular JS is offered as one credit courses. <br><br> • Numpy concepts are included as a topic in Data Science Lab for data manipulation and processing. <br><br> • PHP & MySQL and Mongo DB is offered as one credit courses. <br><br><br><br> • Data Science Lab is included as part of Lab, AI/ML is included in lab component, Block chain are included in curriculum. <br><br><br> • Advanced problem solving using python, advanced problem solving using C, Advanced problem solving using Java is offered as professional elective course. |

**File In-charge**
**(T.Sumathi)**

**HoD/IT**
**(Dr.S.Ramakrishnan)**

HOD - Information Technology
Dr. Mahalingam College of Engineering and Technology
Pollachi - 642 003

**Dr. Mahalingam College of Engineering & Technology, Pollachi 642 003**
**(An Autonomous Institution)**
**Department of Information Technology**

**P28 Stake Holders Involvement in the process improvement of PEOs POs and PSOs**

**Suggestions for Improvement and Impact Analysis from Stake holder surveys**

**Academic Year: 2021-2022**

| Activity | Suggestions for Improvement | Action Taken |
|---|---|---|
| Stake Holder Surveys | **Alumni Feedback**<br>• Trainings related to placements are so helpful while attending the interview process.<br>• Problem solving sessions helps us to overcome struggles in programming and also increases the speed of programming.<br><br>**Student Feedback**<br>• Introduce more basics of advanced courses like AI and ML<br>• Depth knowledge of latest technology which are used in industries | • Employability skills course is introduced as Professional skill course to improve the skills required to face the interview confidently.<br>• Advance problem solving courses for C, Java and Python are included as elective laboratories to improve programming skills of the students.<br><br><br>• Artificial Intelligence and Machine Learning course is introduced<br>• Courses like Devops, Automation using Raspberry Pi,Android programming are introduce in One Credit Courses(OCC) |

| Activity | Suggestions for Improvement | Action Taken |
|---|---|---|
| | • Motivate the students to do projects on data science<br><br>• Provide Practical knowledge in project development<br><br>• Framework courses need to be added<br><br>• Provide in-depth knowledge in Image processing<br><br>• Encourage students to do IoT related projects<br>• More importance for Practical courses can be given.<br>• If problem solving is done using any online website like Hacker earth etc.,, it will improve the coding skills<br>• Professional development activities are really well<br>• Higher studies counselling<br>• They providing enough Career planning and guidance<br>• Everything regarding career planning, training and Administration is very good. | • Data Science lab is introduced to motivate the students do project in data science<br>• More Number project courses are introduced right from 2$^{nd}$ year onwards<br>• Courses like ReactJS and AngularJS courses are offered as OCC<br>• Computer vision and Data Visualization Techniques course are offered as elective course<br>• IoT course is offered along with lab component<br>• Lab component are added in theory wherever there is a possibility<br>• Problem solving activity to students is carried out in HackerRank platform<br><br><br><br>• Periodically the career guidance, training orientation for higher studies are given to the students for career improvement |

| Activity | Suggestions for Improvement | Action Taken |
|---|---|---|
| | • Give some new ideas about current techniques and senior interaction is must | • Interaction to students is conducted with Industry experts, Alumni and Senior students to get exposed to new technologies |
| | **Faculty Feedback**<br>• Suggested to include hardware mini project in IOT course.<br>• Include open source tools for front end development.<br>• Include image recognition and detection and data visualization as a topic in Mobile programming Lab | • Arduino Programming is offered as professional elective course.<br>• Web scripting Languages is provided as one credit course for front end development of projects.<br>• Classifying Images and object detection topic is included in Artificial Intelligence and Machine Learning course. |
| | **Employer Feedback**<br>• Courses / topics may be include in curriculum are Artificial Intelligence, Machine Learning.<br><br>• Frameworks for Web/Mobile App development such as React<br>• App development use flutter frame work in android studio. | • Artificial Intelligence and Machine Learning course is introduced<br><br>• Courses like ReactJS and AngularJS courses are offered as OCC<br>• AngularJS course contains flutter concepts. |

| Activity | Suggestions for Improvement | Action Taken |
|---|---|---|
| | • Programming and Problem solving ability <br><br> • Train the students in developing Mobile Applications. | • Advanced problem solving using Java is offered as professional elective course. <br><br> • Mobile Applications developed through Mini Project using Android Programming one credit course. |

**File In-charge**
**(T.Sumathi)**

**HoD/IT**
**(Dr.S.Ramakrishnan)**
HOD - Information Technology
Dr. Mahalingam College of Engineering and Technology
Pollachi - 642 003

# DrMahalingam College of Engineering and Technology, Pollachi

## Department of Mechanical Engineering

## In-direct Assessment –Action taken (2017-18)

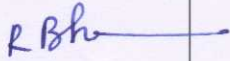| Recommendations/Action to be taken | Responsibility | Status | Signature |
|---|---|---|---|
| **Curriculum and Teaching –Learning:**<br><br>• Introduce the quality systems courses.<br>• Introduce the welding technology and welding related courses.<br>• Introducethe Composite material course.<br>• Add the vibration measurements and control topics on related courses.<br>• Introduce the FFT analyzer experiments. | OBE Coordinator & BOS Convener | New electives such as Quality Engineering, Composite Material were introduced.<br><br>Theory with practical subjects are introduced.<br><br>The topics are introduced in control also experiment on FFT is introduced | R Bh |
| **Placement and Higher education:**<br>• Communication classes can be given to the students to develop communication skills for placement.<br>• Two industrial visit can be arranged for students. | Placement Coordinator | Aptitude Training and group session was conducted.<br><br>Communication Skill Training was given separately. | |

Program Coordinator

HOD

# DrMahalingam College of Engineering and Technology, Pollachi

# Department of Mechanical Engineering

# In-direct Assessment –Action taken (2018-19)

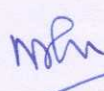| Recommendations/Action to be taken | Responsibility | Status | Signature |
|---|---|---|---|
| **Curriculum and Teaching –Learning:**<br><br>• Introduce the automated TIG welding courses.<br>• Introduce the CAD drawings.<br>• Introduce the systems approach related courses.<br>• Introduce the OCC courses - Quality by Design, Value Engineering, DOE and optimization Techniques.<br>• Introduce the Tool and Design course. | OBE Coordinator & BOS Convener | Industry oriented courses like Design for Welding and Systems Approach for Engineers was introduced.<br><br>OCC courses like Introduction to NDT & IIoT (OCC), Fluid Power Technology (OCC), and Industrial Automation Systems (OCC) were introduced. | R Bh |
| **Placement and Higher education:**<br>Two industrial field trainings can be made mandatory in two semesters. | Placement Coordinator | Aptitude Training and group session was conducted.<br><br>Internship, Industrial visits are arranged for students | |

Program Coordinator

HoD

# Dr Mahalingam College of Engineering and Technology, Pollachi

## Department of Mechanical Engineering

### In-direct Assessment –Action taken (2019-20)

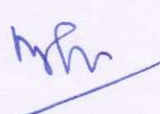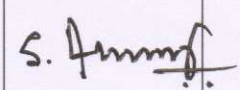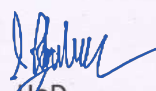| Recommendations/Action to be taken | Responsibility | Status | Signature |
|---|---|---|---|
| **Curriculum and Teaching –Learning:**<br><br>• Introduce the Welding Technology, CNC Programming and emerging technology courses.<br>• Introduce the NDT and quality related courses.<br>• Introduce the PLM, ERP, MES, SCM courses.<br>• Introduce the Industrial IOT and data science courses.<br>• Introduce the Heat exchanger application course.<br>• Introduce the Project that includes innovative thinking.<br>• Introduce and Implement Subject related to sustainable energy. | OBE Coordinator & BOS Convener | Introduced the following Courses - Industrial Robotics and CNC Programming & Robotics courses.<br><br>Introduced the industry oriented Course - Battery System for Electric Vehicles and PLM.<br><br>Projects were given which should contain innovative ideas. | |
| **Placement and Higher education:**<br>Plan for IT career path for Mechanical/Automobile Engineering. | Placement Coordinator | Planning to introduce IT technology courses in 19 Regulations such as python programming, Data science and AI & ML | |

Program Coordinator

HoD

# DrMahalingam College of Engineering and Technology, Pollachi

# Department of Mechanical Engineering

# In-direct Assessment –Action taken (2020-21)

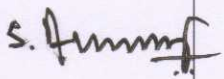| Recommendations/Action to be taken | Responsibility | Status | Signature |
|---|---|---|---|
| **Curriculum and Teaching –Learning:**<br><br>• Introduce the virtual lab courses.<br>• Introduce the practical oriented courses.<br>• Introduce the mini projects or activity based assignments.<br>• Introduce the design or automation related courses.<br>• Introduce the sensors in automation courses.<br>• Introduce the PLM, MBSE courses.<br>• Introduce and Implement Subject related to sustainable energy. | OBE Coordinator & BOS Convener | Introduced the practical oriented courses like Automotive Telematics & Industrial Safety Engineering.<br><br>Industry oriented courses like Embedded system design and Development & Prototype Development were added to the curriculum.<br><br>Mini project is introduced. | |
| **Placement and Higher education:**<br>Communication training for students. | Placement Coordinator | Aptitude Training and group session was conducted.<br><br>Communication Skill Training was given separately. | |

Program Coordinator

HoD

# DrMahalingam College of Engineering and Technology, Pollachi

# Department of Mechanical Engineering

# In-direct Assessment –Action taken (2021-22)

| Recommendations/Action to be taken | Responsibility | Status | Signature |
|---|---|---|---|
| **Curriculum and Teaching –Learning:**<br><br>• Introduce the GD&T course, Engineering Drawing and CATIA Training courses.<br>• Introduce the practical oriented courses.<br>• Introduce the industry 4.0, IIoT and AR/VR related courses.<br>• Introduce the Latest EV and Robotics courses.<br>• Introduce the Basics of Hydraulic and Pneumatic systems course<br>• Introduce the Project that includes innovative thinking.<br>• Introduce and Implement Subject related to sustainable energy. | OBE Coordinator & BOS Convener | The flowing courses are added in the curriculum based on the views expressed by the stakeholders are Model Based Systems Engineering, Fluid Power System, Computer Integrated Manufacturing, Product Life Cycle Management & Artificial Intelligence and Machine Learning. For Mechtatronics lab course, Matlab - Simulink tool is included. | |
| **Placement and Higher education:**<br>Orientation on Higher Studies, Improve placement opportunities. | Placement Coordinator | Workshop are conducted specifically for students who opted for Higher Studies. | |
| **Infrastructure:**<br>College Bus seems to be over Crowded. | Infrastructure Coordinator | Bus facilities are improved by adding new bus route and also increased the bus count. | |

Program Coordinator

HoD