



SREENIDHI INSTITUTE OF SCIENCE AND TECHNOLOGY

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Department of Electronics and Computer Engineering (ECM)

6. Action Taken Report on Attainment of COs and POs

POs Attainment Levels and Actions for Improvement- (2020-21)

PO1: Engineering knowledge

POs	Target Level	Attainment Level
PO1	2	2.43

Observations

1. Attainment level is observed to be satisfactory.
2. Attainment level for the following course was active little below the marked target level:

Applied Physics - I (C103), Computer Programming (105), Network Analysis (C120).

Action 1: The faculty offering the course is requested to emphasize and discuss more examples in the class room session.

Action 2: The students are made to solve more example problems in Tutorial classes.

PO2: Problem analysis

POs	Target Level	Attainment Level
PO2	2	2.52

Observations

1. Attainment level is observed to be satisfactory.
2. Attainment level for the following course were active little below the marked target level:
Engineering Mathematics II (C115), Network Analysis (C120).

Action 1: The faculty offering the course is requested to emphasize and discuss more examples of the normal forms in the class room session

Action 2: The students are made to solve more example problems in Tutorial classes

PO3: Design/development of solutions

POs	Target Level	Attainment Level
PO3	2	2.58

Observations

1. Attainment level is observed to be satisfactory.
2. Attainment level for the following course were active little below the marked target level Engineering Mathematics II (C115), Probability Theory and Stochastic Process (C203), Embedded and Real Time Systems (C404)

Action 1: The faculty offering the course is requested to emphasize and discuss more examples of the number of problems in the class room session.

Action 2: Students are encouraged to participate in events like Hackathon and Idea challenges

PO4: Conduct investigations of complex problems

POs	Target Level	Attainment Level
PO4	2	2.61

Observations

1. Attainment level is observed to be satisfactory.
2. Further improvement can be attained for the courses like Network Analysis (C120), Embedded and Real Time Systems (C408).

Action 1: The faculty is requested to take up some examples /case studies for discussion in class room session.

Action 2: The students are encouraged to identify real time problems and carry out a project work which gives solution to the problem.

PO5: Modern tool usage

POs	Target Level	Attainment Level
PO5	2	2.60

Observations

1. Attainment level is observed to be satisfactory.
2. Attainment level for the following course were active little below the marked target level:

Discrete Structures and Graph Theory (C207), Managerial Economics and Financial Analysis (C215), Introduction to Data Science (C306).

Action 1: Students are motivated to participate in events like Idea challenges and Hackathons.

Action2: Industrial tours are conducted on regular basis.

PO6: The engineer and society

POs	Target Level	Attainment Level
PO6	2	2.57

Observations

1. Attainment level is observed to be satisfactory.
2. Attainment can be further increased by sensitizing students about their social responsibilities.

Action 1: Students are encouraged to volunteer and participate in NSS activities.

PO7: Environment and sustainability

POs	Target Level	Attainment Level
PO7	2	2.50

Observations

1. Attainment level is higher than target level.
2. To maintain the attainment level students are to be sensitized future towards environmental and sustainable issues.

Action 1: Student developing product based mini and major projects are counseled to meet environmental and society needs.

PO8: Ethics

POs	Target Level	Attainment Level
PO8	2	2.60

Observations

1. Attainment level is higher than target level.
2. Can be further improving the understanding of students about standard engineering Practices and professional ethics.

Action 1: The industrial visits are compulsorily organized in every semester starting from 2nd year onwards.

Action 2: A course titled "Intellectual Property Rights(IPR)" will make students more responsible towards the society.

PO9: Individual and team work

POs	Target Level	Attainment Level
PO9	2	2.66

Observations

1. Attainment level is higher than target level.
2. Attainment can be increased by improving attainment in project courses like Group project, Industry oriented mini projects, Internships and Major projects

Action 1: All the students are motivated to undergo the Internships program during summer vacation .

Action 2: Students are to be encouraged to participate as teams in various events such as Hackathons and coding contests, so as to make them realize importance of team work.

PO10: Communication

POs	Target Level	Attainment Level
PO10	2	2.76

Observations

1. Attainment level is very Good.
2. Attainment can be increased further by encouraging students communicate effectively on latest technical topics.

Action1: The Courses English-I and English-II are restructured to room to communicate effectively.

Action2 :In practical session of English language communication skill lab and Effective English communication and soft skills lab courses more the students are encouraged more to use English

PO11: Project management and finance

POs	Target Level	Attainment Level
PO11	2	2.63

Observations

1. Attainment level is very Good.

2. Attainment level for the following course was active little below the marked target level: General Management and Entrepreneurship (C402), Management Science (C414).

Action 1: Faculty is request to discuss more number of case studies in class room sessions

Action 2: More students are encouraged to take up basics of entrepreneurship course further to learn the elements of becoming the entrepreneur.

PO12: Life-long learning

POs	Target Level	Attainment Level
PO12	2	2.64

Observations

1. Attainment level is higher than target level.

2. Further improvements can be attained by motivating students to participate in paper presentations and other Co-curricular, extracurricular events.

Action 1: The faculty is encouraged to guide and motivation students to write articles, and publish papers.

Action 2: Students are encouraged to participate in events like Hackathon and Idea challenges

PSOs Attainment Levels and Actions for Improvement- (2020-21)

PSO 1 :Ability to identify, formulate and solve engineering problems using computation and appropriate algorithms in one or more fields of electronics and computer engineering, such as Internet of Things, embedded systems, computer vision, machine learning, artificial intelligence, and signal processing

PSO 1: Observations

PSO	Target Level	Attainment Level
PSO1	2	2.59

The attainment level is found to be very good

Further improvements can be made in the courseslike Engineering Mathematics II (C115), Applied Physics – I (C116), Network Analysis (C120).

Action plans:

Action 1: The Faculty handling these courses is encouraged to get trained in the area of Embedded systems, Internet of Things by attending Training programs/ Workshops.

Action 2: The Faculty is requested to handle the course focusing more on Real time Projects and case studies in the class room session.

PSO 2: Ability to use contemporary engineering tools and techniques and adapt to the industry needs for solving multi-disciplinary problems

PS02: Observations

PSOs	Target Level	Attainment Level
PSO2	2	2.57

The attainment level is found to be very good

Action plans:

Action 1: Further improvement can be achieved if students opt for elective courses like Engineering Physics – I (C103), Computer Programming (C1-5), Quantitative Aptitude (C307), Embedded and Real Time Systems (C404).

Action 2: More emphasis may be given to take up projects in multi-disciplinary domains.

PSO 3 : Ability to design a system or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, safety, and sustainability.

PS03: Observations

PSOs	Target Level	Attainment Level
PSO3	2	2.58

The attainment level is found to be very good

Action plans:

Action 1: More emphasis may be given to take up projects pertaining to the rural development and improving their economic income like agricultural projects, health related projects, etc.