



Activity Report

Name of the Activity: One day Online Student Workshop on
“Design of microstrip antennas using HFSS tool”

Course:	Microwave and Antenna theory	Course Code: 17TE63	Semester: VI
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Course Coordinator: Mr. Banuprakash R	Batch: 2017-21	Date: 06.04.2020	Academic Year: 2019-20
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Course Outcome CO6:	Student will be able to Perform in a group to design different micro strip antennas using HFSS tool and submit a report
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Programme Outcomes addressed:	PO5- <i>Modern tool usage</i> ,PO7- <i>Sustainability</i> , PO 9- <i>Team Work</i> , <i>PO10- Communication Skills</i>
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Programme Specific Outcome addressed:	PSO1- <i>Communication Stream</i>
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CO-PO/PSO mapping															
CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO5					3		3		3	3			3		

Summary :

Gaps identified: From the curriculum PO1, PO2,PO3 are addressed through CO2,3 and 4. Therefore to map other POs PO5, PO7, PO9 and PO10 a student workshop is planned through CO6.

Teaching Learning Process:

A One day Student workshop was conducted as a part of course Microwave and Antenna theory. Students were asked to form a group of 3-4 members. Initially Mr. Banuprakash R delivered a lecture on introduction of microstrip antennas and later the design of MSA using HFSS was demonstrated. All the student groups were asked to design MSA for wireless applications with different frequencies. Totally 11 groups(44 students) have participated in this activity. The activity was intended to improve the ability to work in Team work-PO9, Communication Skills -PO12, to learn a modern tool HFSS for antenna design-PO5 and also to think about the sustainability of the designed solution-PO7.

Rubrics defined:

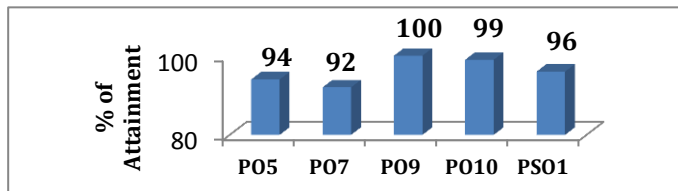
For PO5- 4 mark, PO9-2 mark, PO10 – 2 mark and PO7-2 mark

Target set:

PO Attainment >75%- 3(High), 60-74%- 2(Moderate), <60%-1(Low)

Impact analysis:

PO/PSO	PO5	PO7	PO9	PO10	PSO1
Attainment	94	92	100	99	96
Target level Achieved	3	3	3	3	3



Signatute of the Faculty
(Mr. Banuprakash R)

Comments by PC:

Signatute of the Programme Coordinator
(Dr. Raju Hajare)