

i. Introduction:

Innovative teaching methods can improve the students' learning capacity. Teaching and learning practices are used to encourage the students to get interacted in the classroom and to improve their performance skills in both curricular and extra-curricular activities.

S.No	Method/Activity	Key impact of the activity
1	Flipped classroom lectures (via peer discussions, summarising, etc.)	Gave scope to students for role reversal, peer discussions and self-learning. Let the students read the interactive e-lectures as many times required, and these lessons also serve as revision/remedial lectures.
2	Group discussions	Gave scope to students for self-learning via brainstorming
3	Role plays	Let students relate themselves in a tangible way to the topic of study
4	Research paper discussion	Helped students get a view of recent work in the field and stimulates innovative thinking
5	Simulation based teaching	Aided students in understanding how theory is implemented using software and hardware simulations and also trivialised the analysis of complex technical phenomena.
6	Applet based teaching	Allows students to explore mathematical properties and relationships in ways that can potentially enhance students' understanding.
7	Demonstrations	It gives a real life situation of a course of study as students acquire skills in real life situations using tools and materials.
8	Industry visit	Let the student see live his/her course put to industrial use
9	Narration using NPTEL videos/animations	Helped students understand technical detail with more rigor

10	Student seminars	Lets students give a presentation on given topics
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Any one of the method is adopted for each course in the curriculum. This is maintained in the course files of respective faculty. In addition to the course file, a common platform i.e MOODLE is used by the department to upload all the course materials and documents related to innovative teaching. Along with the **MOODLE** online platform in the college website, a dedicated **YOU TUBE channel-ANITS ECE** is provided for faculty to upload their video lectures for reviewing and reused by other faculty members and students.

SNo.	Method		Key impact of the activity
1	Online quiz (Moodle)	ALL COURSES	Students gave this exam at their own comfort and these are open book exams, but conditions are set to completely avoid malpractice.
2	Open book exams	ECA1,DC,CSE,BEE,VLSI	These tests let student explore for hints in the textbook and derive his own solutions to complex problems
3	Simulation based assignment (theory/lab course)	MCES,DIP,DSP,AWP ,ECA2LAB,DCLAB PDC LAB	It reduces the gap between learning environment and "real" environment. Students able to transfer knowledge gained in the academic environment to real-world situations.
4	Project based Assignments	CES LAB/THEORY, LICA, ICA,	Students identify circuits/components and analyse their properties and design
5	Course project as assignment(theory/lab course)	DE,MCES LAB	Gave scope for students to do hands-on projects involving real applications and let them push beyond course context, and also let them work in teams, do project management and make presentations.

ii. Innovative Teaching methods followed by the Department Faculty for the past 5 years:

Name of the faculty	Flipped classroom lectures (via peer discussions, summarising, etc.)	Group discussions	Role plays	Research paper discussion	Simulation based teaching	Applet based teaching	Demonstrations	Industry visit	Narration using NPTEL videos/ animations	Student seminars
Dr. V.Rajyalakshmi			AWP	AWP		AWP		AWP		
Dr.Praveen Babu Choppala	PTRP	PTRP								
Dr.S.Srinivas	VLSI				VLSI, DICDV		VLSI		DICDV	
Dr.S.Ravi			VLSI	VLSI						
Ms.M.Nirmala				AWP, MWRE	AWP		MWRE	AWP		MWRE
Ms.D.Nagamani			ICA							ICA
Mr.J.Bhaskar Rao				DIP	DSP, DIP	DIP				
Ms.Ch.Anoosha			ICA							ICA
Mr.A.Lakshmi Narayana			CMC, DLD	CMC			DLD			DLD
Ms.Gayatri										SCGPS
Ms.B.Deepa			ECAII		ECA I ECA II					
Mr.N.Srinivas Naidu			MCES		MCES		IES			MCES
Ms.P.Chaya Devi			DC		DC				BEE	
Ms.K.Yashoda			DLD							
Mr.R.Chandra Sekhar		CSE	CSE	CSE	CSE		CSE	CSE		CSE
Mr.P.Devi Pradeep			VLSI		ICA				VLSI	EMI

Mr.N.Ram Kumar					ICA					
Ms.P.Devi			EDC, BEE				EDC, BEE			EDC
Mr.G.V.RaviTeja				AWP			MWRE	AWP		

iii. EXAMPLES:
MOODLE online platform:

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 Teacher: Deepa Thumma

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 Teacher: Course Creator ECE_CC

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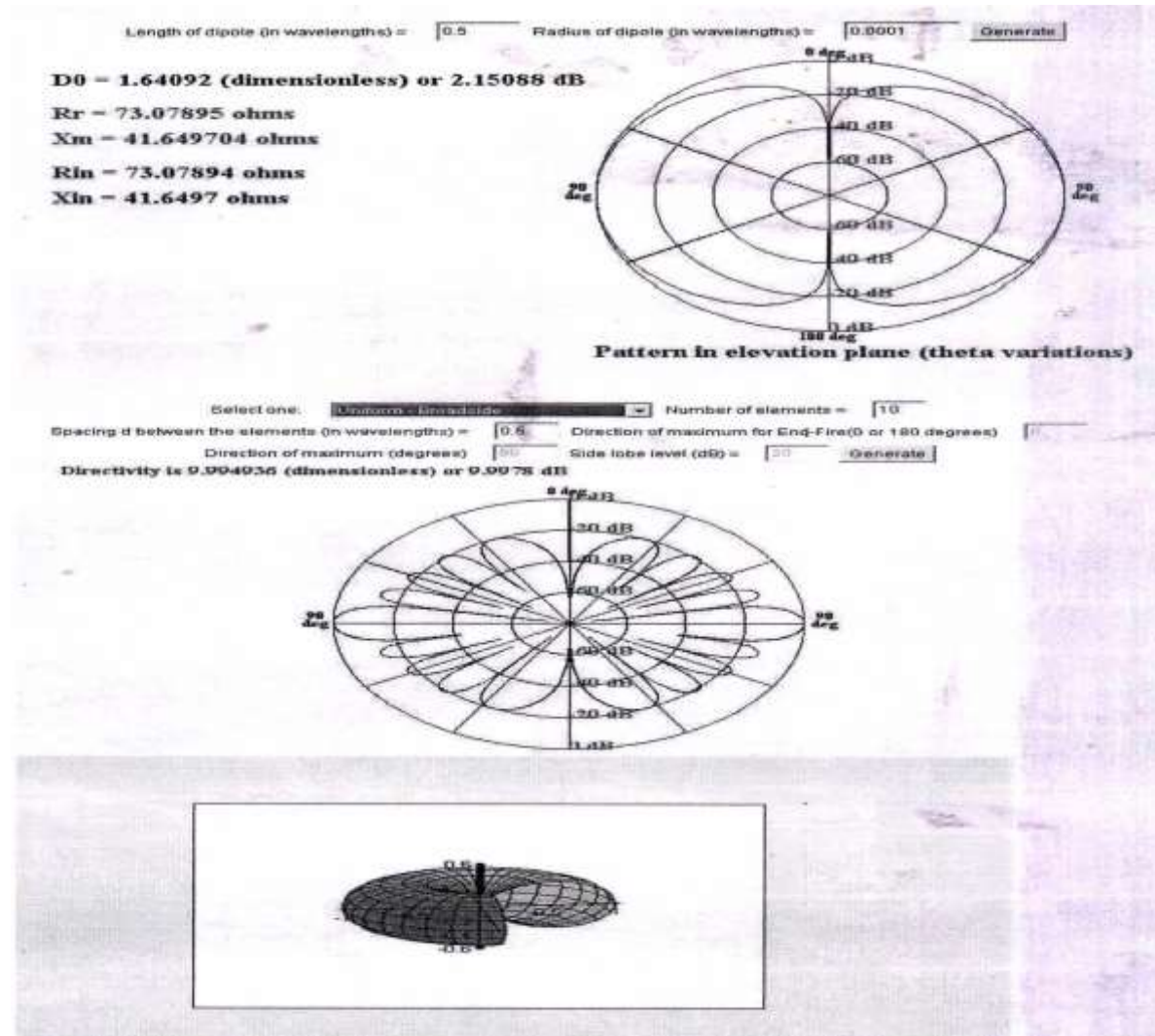
Radar Engineering and Navigational Aids
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Applet Based Teaching: Subject: Antennas and Wave Propagation



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