

Requisition Letter

Date: 12.03.2019

From

The HOD,
ECE Department,
Bharath Institute of Higher Education and Research,
Selaiyur, Chennai.

To

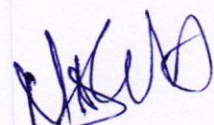
The Dean Engineering,
Bharath Institute of Higher Education and Research,
Selaiyur, Chennai.

Respected Sir,

SUB : Requisition for conducting Value Added Course-Regd

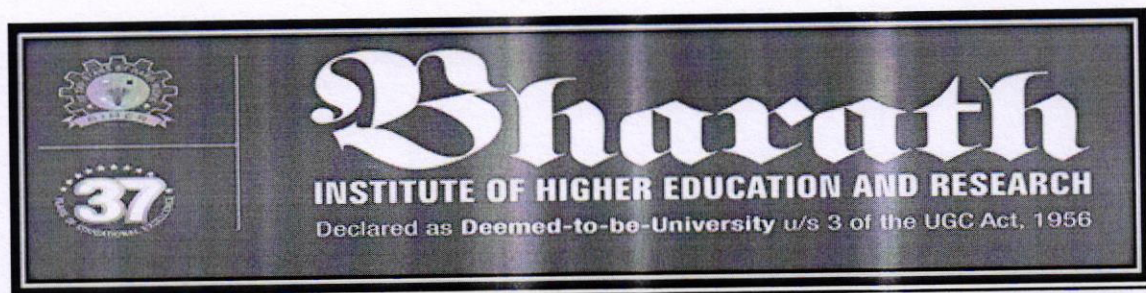
School of Electrical Engineering has planned to conduct Value added Course on "Principles And Techniques Of Modern Radar Systems " on 22.04.2019. In this regard we kindly request you to grant permission for the same.

Thanking you


HOD/ECE




Dean Engineering




CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

Date: 02.04.2019

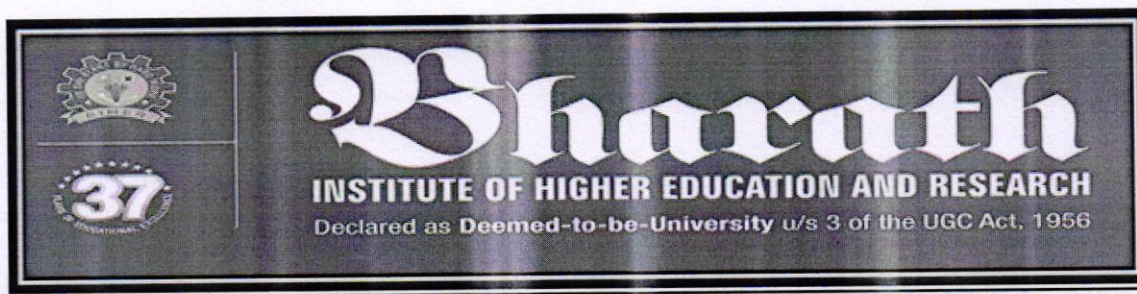
The course Principles And Techniques Of Modern Radar Systems is planned by School of Electrical Engineering which commences on 22-4-2019 (Monday). In this regard the students are requested to give their willingness to Course Coordinator. It is instructed to actively participate and get benefitted for the certified course.

Course Coordinator: S.Balaji
Contact No: 9566078080
Email id : balajis.ece@bharathuniv.ac.in


(Dr.M.Sangeetha)
HOD/ECE

To,
Copy to ECE Department,
Copy to EEE Department,
Department Notice Board





SCHOOL OF ELECTRICAL ENGINEERING

Value Added Courses (2018 -2019)


Principles And Techniques Of Modern Radar Systems

Course Objective

The course "Principles and Techniques of Modern Radar Systems" covers a broad spectrum of the radar system design and analysis, starting with the basic concepts of microwave radar principles. It first develops a simplified model called "radar range equation" to introduce the basic concepts of the Radar. Then it introduces the simple CW Radar and shows its limitations and how that can be overcome with the help of frequency modulation. Then it introduces the concept of pulsed radar to increase the range of the radar detection. Thereafter the concept of MTI filtering to discriminate clutter in the Doppler domain is introduced and performance metric of MTI filtering is introduced. The drawback of MTI filtering in airborne radar is introduced next to highlight the concept of pulsed Doppler radar. Thereafter tracking radar is introduced along with monopulse concept to measure angular position of a target with very high accuracy. Then the detection theory is introduced by elaborate description of match filtering, ambiguity function, range resolution and Doppler resolution concepts. Thereafter pulse compression is introduced to increase the downrange resolution and synthetic aperture processing to increase cross range resolution.

Resource Persons :

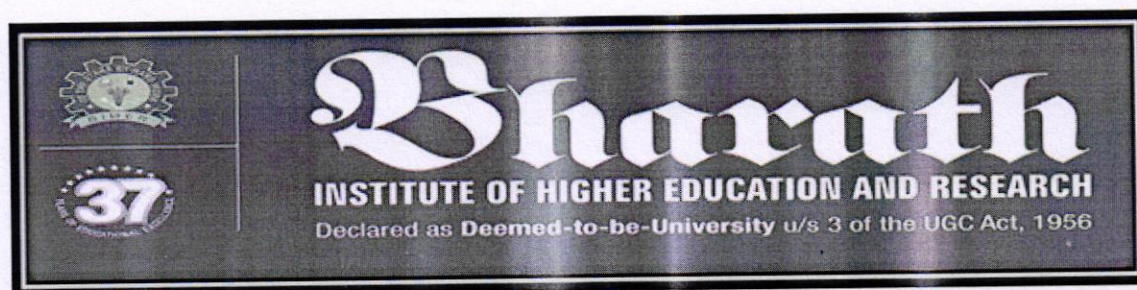
1. Dr.B.Karthik
2. Dr.M.Jasmin


Convener

Dr.M.Sangeetha

HOD/ECE





SCHOOL OF ELECTRICAL ENGINEERING

Principles And Techniques Of Modern Radar Systems

SCHEDULE

Contact Hours : 32 hrs

DATE	SESSI ON	Contact Hours	TOPICS	Resource person
22-4-2019	FN	9.00 am to 12.30 pm	Basic Principles: Radar equation, Radar Cross section	Dr.B.Karthik
	AN	1.30 pm to 4 pm	CW Radar, FMCW Radar	Dr.M.Jasmin
23-4-2019	FN	9.00 am to 12.30 pm	Pulsed Radar Principles	Dr.B.Karthik
	AN	1.30 pm to 4 pm	Clutter Analysis, MTI Improvement Factor, Pulsed Doppler Radar	Dr.M.Jasmin
24-4-2019	FN	9.00 am to 12.30 pm	Tracking Radar, Angular resolution, Monopulse Technique	Dr.B.Karthik
	AN	1.30 pm to 4 pm	Detection Theory: Match Filtering, Radar Ambiguity Function	Dr.M.Jasmin
25-4-2019	FN	9.00 am to 12.30 pm	Imaging Radar: Resolution Concept, Pulse Compression	Dr.B.Karthik
	AN	1.30 pm to 5 pm	Synthetic Aperture Processing, ISAR Imaging	Dr.M.Jasmin
26-4-2019	FN	9.00 am to 12.30 pm	Probability of false alarm and Detection, Modified Radar Range Equation with Swerling Models	Dr.B.Karthik
	AN	1.30 pm to 5 pm	Ground Penetrating Radar for close sensing	Dr.M.Jasmin

VALUE ADDED COURSE
SCHOOL OF ELECTRICAL ENGINEERING
Principles And Techniques Of Modern Radar Systems

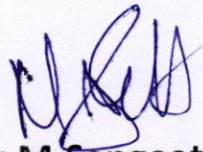
List Of Participants

Date: 22-4-2019

Sl.No	REG.NO	NAME OF THE CANDIDATE
1.	U14EC113	PUNUGOTI ANUSHA
2.	U14EC114	RACHAMADUGU MANISH
3.	U14EC115	RACHUMALLA LOKESH REDDY
4.	U14EC116	KAKUMANU RADHA RANI
5.	U14EC117	PAWAR.SUSHEEL KUMAR
6.	U14EC118	VANGUMALLA REDDY SOWMYA
7.	U14EC119	RACHAPALLI SAI MOHAN
8.	U14EC120	SAI RINITHA.K
9.	U14EC121	SALUMURI RAVI TEJA
10	U14EC123	CHEEDELLA SARACCHANDRA.
11	U14EC124	SARANYA .D.
12	U14EC125	SATHYA NARAYAN .R
13	U14EC126	SHAIK AKHIL
14	U14EC127	SHAIK RABBANI BASHA
15	U14EC128	SHAIK.ALEEM
16	U14EC129	NAGILLA SHIVA
17	U14EC130	P SHOPIC

18	U14EC131	SINGAMREDDY MUKUNDESWAR REDDY
19	U14EC132	SIRIYAPU AKESH REDDY
20	U14EC133	SOMAROWTHU PRIYANKA NAGAVARDHANI
21	U14EC134	SONAPARI KUMARI
22	U14EC135	SOURABH KUMAR VERMA
23	U14EC136	K SRAVANI
24	U14EC137	SRILADAGUDAM VANGATE SHALINI
25	U14EC138	SRINIVASAN .S
26	U14EC139	SRIRAMULA PRANAV
27	U14EC140	SUSHEEL RANJAN
28	U14EC141	SWETHA HARIDASAN
29	U14EC142	SWETHAA SHREE S
30	U14EC143	SYED ASMA THUNNISA
31	U14EC144	SYED NAZIM PASHA KHADRI
32	U14EC145	SYED SADIK
33	U14EC146	TAMIL SELVI .K
34	U14EC147	RANGASAMUDRAM TEJASWINI
35	U14EC148	THILLAI VANI.S
36	U14EC149	THIRUVATTURU HARIKRISHNA
37	U14EC150	THIYAGARAJAN.R
38	U14EC151	THOODI SHEKAR REDDY
39	U14EC152	KADIYAL VAMSI KRISHNA.
40	U14EC153	BEERE UMA MAHESH
41	U14EC155	VADDE PAVAN PRASAD

42	U14EC156	VADDE VALLI VASU
43	U14EE033	PRIYESH KUMAR PANDEY
44	U14EE034	RAJ KISHOR DAS
45	U14EE035	RAJ KUNDAN


 (Dr.M.Sangeetha)

HOD/ECE





Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



SCHOOL OF ELECTRICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

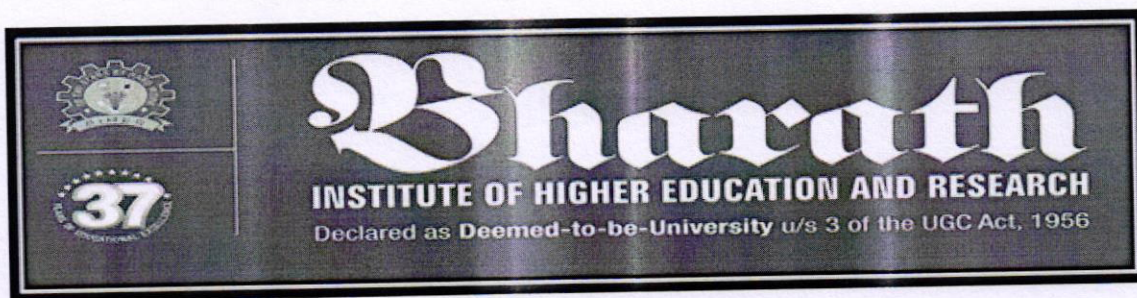
This is to certify that Mr / Ms **PRIYESH KUMAR PANDEY (U14EE033)**
has attended Value added Course On **“Principles And Techniques Of
Modern Radar Systems”** organized by the School of Electrical
Engineering, BIHER conducted from 22-4-2019 to 26-4-2019.

S. Balaji

BALAJI S
COURSE COORDINATOR

Dr. M. Sangeetha

Dr.M.SANGEETHA
CONVENOR



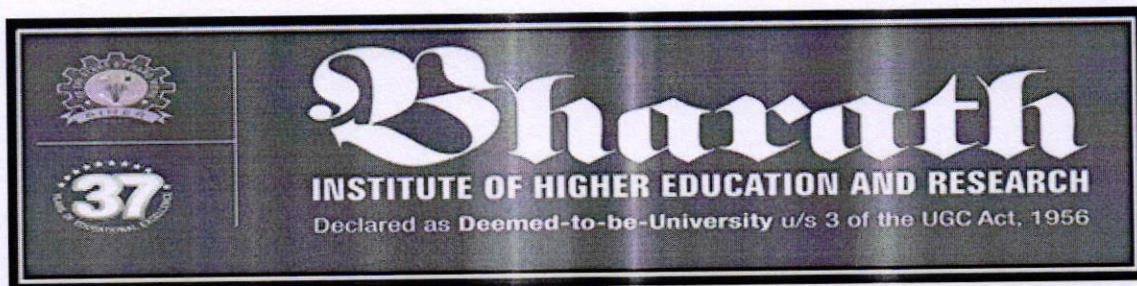
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Principles And Techniques Of Modern Radar Systems

FEED BACK FORM		Date: 26-4-2019			
Name	P. SHOPIC				
Register number	U14EC130				
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
The Speaker				✓	
Audio, Visual Aids Technology used				✓	
Presentation hand outs					✓

[Signature]
Student Signature

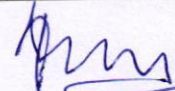


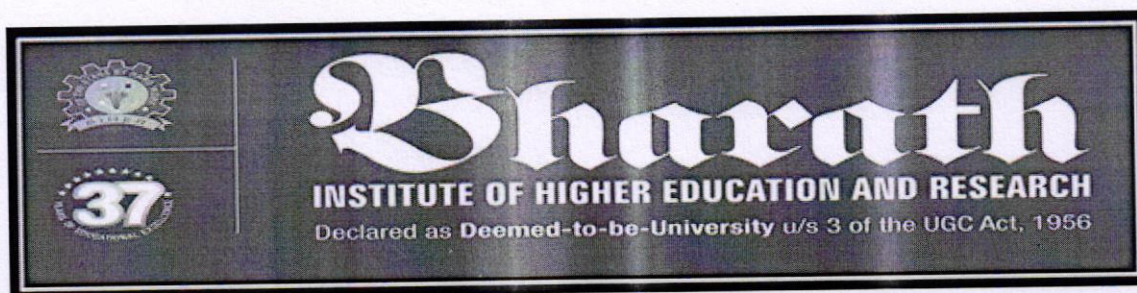
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Principles And Techniques Of Modern Radar Systems

FEED BACK FORM		Date: 26-4-2019			
Name	RAJ KUNDAN				
Register number	U14EE035				
	Poor	Fair	Good	Very Good	Excellent
Overall Program					✓
The Speaker					✓
Audio, Visual Aids Technology used				✓	
Presentation hand outs					✓


Student Signature



SCHOOL OF ELECTRICAL ENGINEERING

Course on Principles And Techniques Of Modern Radar Systems dated on 22-4-2019 conducted by school of Electrical Engineering

