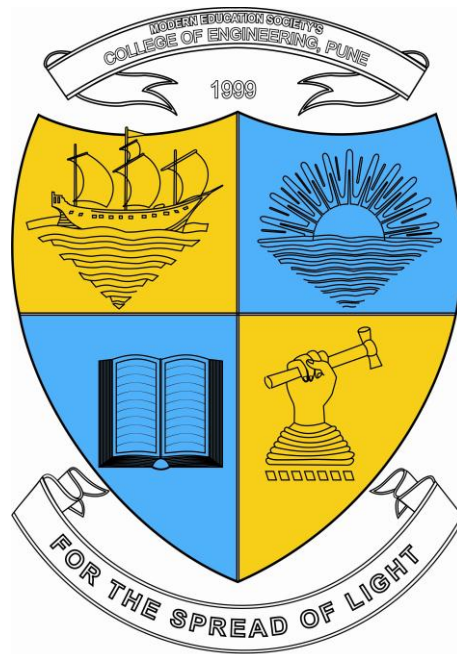


MODERN EDUCATION SOCIETY'S

College of Engineering ,Pune

Department of Electronics & Telecommunication

CENTRE OF EXCELLENCE IN TELECOMM



AMITEC ELECTRONICS LTD . ,DELHI

amitec
Innovating Technology

CENTRE OF EXCELLENCE IN TELECOMM
IN COLLABORATION WITH
AMITEC ELECTRONICS LTD. DELHI
UNDER INDUSTRY INSTITUTE INTERACTION CELL

OBJECTIVE :

1. To apply for the IIC and IIPC SCHEME under AICTE
2. To get the funds from NSDC
3. To conduct courses under TELECOMM SECTOR SKILL
4. To conduct STTP in Telecomm for enabling knowledge and Hands on training to the researchers in SDR /Cognitive domain
5. Resource center for consultancy
6. To use the Lab for U.G /P.G/Research students.
7. To transfer skills to students and make them employable in core telecommunication domain

The objective under IIC Cell is to reduce the gap between industry expectations (practice) and academic offerings (theory) by direct involvement of industry to attain a symbiosis.

Transfer of skills and knowledge from industry experts will promote the activity
“BRIDGING THE GAP OF INDUSTRY-ACADEMIA”



Equipments in Centre of Excellence under Phase -1 :

Sr. No.	Item	Qty
1	Satellite Communication Set UP	
2	Antenna & accessories as under Software Defined Radio LAB SDR04: Built in: Advance Wireless Communication Setup	3
3	EMI EMC Training system	1
4	Logic Protocol analyzer Bus Pirate	1
5	Stereo Zoom Inspection Microscope	1
6	Fabrication/Measurement Lab	1
7	Microwave Absorber 1-40GHz	10
8	RIGOL 1.5GHz Spectrum Analyzer with Tracking Generator	1

Cost of Total Equipment : Rs.3200000 /-

Cost of Infrastructure : Rs.8,50,000 /-

Total Cost of Centre Of Excellence : 40,50,000/-

Future Expansion of Equipments under Phase -2

List Of Equipments :

- VNA
- Anechoic chamber
- MIC KITS
- Advance Measurement Lab for Microstrips - Performed using pair of VNA's
- Fluke DMM 101
- RIGOL DG1022+1032Arbitrary Waveform Generator
- RIGOL Power Supply Linear /Digital Programmable
- RIGOL 100MHz DSO
- Dell Optiplex 9020 i7 4th Gen Processor >3GHz, 8GB RAM, **256GB SSD**, 1GB Graphics Card, 24" Monitor, Key Board, Mouse
- Dell HD Monitors 24 inch
- Dell Key Board, Dell Mouse
- Dual Ridge Horn Antenna
- Mobile communication Lab using SDR LAB 04-Upgradation in 2016
- Cognitive radio lab using SDR LAB 04-Upgradation in 2016

Responsibilities of Centre of Excellence

- Support
- Guidance
- Shared Learning
- Measurement
- Governance

Offerings at Centre of Excellence

Short Term Training in SDR and SCA

Certified course in SDR

Certified course in EMI-EMC Measurement

Certified course in PCB Lab

Remote Lab Connectivity - Deployment

Projects for UG and PG students

Research Lab for Ph.D students

Industry visit centre including demonstration of SDR -Gnuradio companion

Joint Project with external organization and institutes

Consultants in deploying CoE in Telecomm

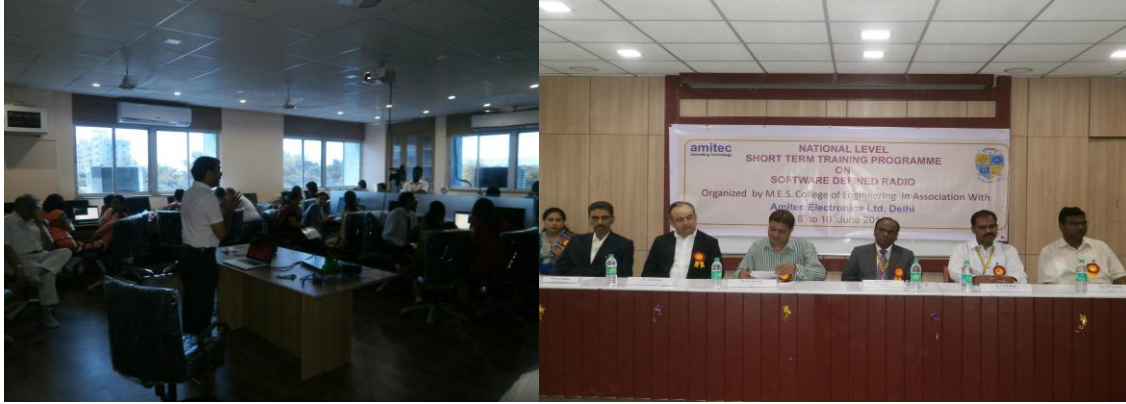
Membership to Centre of Excellence

Formation of SDRForumIndia- **Researchers Coalition** and registering it as a
“Not for Profit Organization “

Activities Conducted in Centre of Excellence

Pre -Centre of Excellence: National Workshop in Software Defined Radio-2014

Post -Centre of Excellence: National STTP in Software Defined Radio -2015



National STTP on SDR-2015



NATIONAL WORKSHOP ON SDR 2014

Present Engagement of Centre Of Excellence :

1. U.G LAB for B.E students pursuing Software Defined Radio
2. Consultancy for Ph.D student of VNIT
3. Research Lab for Ph.D student of VNIT
4. Industry Visit of students of external college -Satara College of Engineering & Management
5. Proposed visit of B.O.S chairman of Shivaji University -Kolhapur



Visit of L.I.C Committee to Centre Of Excellence -2015

Future possible collaborations:

Agilent

Benchmark

Rhode & Schwarz- For Test & Measurements

RTTC-B.S.N.L –Pune , for certified courses

Nokia Networks for Telecomm deployment

Third party vendors in RF deployment

Sunren