

Army Institute of Technology

Criteria 6.5.3 Quality assurance initiatives of the institution

List of Collaborative quality initiatives with other institution(s)

Year	Collaborative quality initiatives with other institution(s) (Provide name of the institution and activity)	Page No
2019-20	Seminar on "career strategy-creating your own personal brand by Ms.Snehal Sarkar, Master Life coach and corporate Trainer, Mind Mantras	2-5
	"VLSI Chip design Hands on using open sourc EDA "in collaboration with IIT Guwahati and MNIT Jaipur	6-13
	"ICT tools for Teaching Learning Process and Institutes" in collaboration with IIT Guwahati , MNIT Jaipur,NIT Patna,NIT Warangal	14-22



Seminar on Career Strategy- Creating your own Personal Brand

Resource Persons



Ms. Snehal Sarkar

Master Life Coach & Corporate Trainer



Mon, 23rd Sep 2019



fb.com/aitpune

Think to Design,
Design for People

Snehal Sarkar



She is a Certified Master Life Coach from the American University of NLP and a Corporate Trainer with close to 15 years of management experience in hospitality and training with, leading global brands like ITC Ltd., Accor Hotels and Bharat Forge Ltd. in India and Canada.

As the Founder of Mind Mantras, an organizational development venture, she offers group workshops and one-on-one sessions and has initiated a transformation in more than 7000 professionals and students across industries in the last three years. She has led multiple **Business Communication sessions for Cognizant Technologies, Sunguard Availability Services and Reserve Bank of India** and is a **Corporate Etiquette Coach** for Senior Managers of **Bharat Forge** and its subsidiaries. She is a **Job Search Strategy Coach** and enables students and young professionals to create a Career Strategy. She is also a visiting faculty for the M.E and B.E students at the Army Institute of Technology (AIT) , MIT, PCCOE and other colleges affiliated to Pune University. She is associated with the Department of Management Studies, (PUMBA) for the last 4 years as a faculty for Business Communication as well as Campus Recruitment Training. As a member of MCCIA she got the exposure to partner with organisations on various NSDC skills development projects for the youth in rural Maharashtra.

Having completed her **Post Graduation in HR** from Pune, she specialized in Training and Development from Toronto. She was awarded the **Prime Minister's scholarship for All India First Rank in Business Communication** in the National Council for Hotel Management, Ministry of Tourism. She has been associated with several elite VIP visits such as former president, **Bill Clinton and PM Shri Atal Bihari Vajpayee, Mr. Bill Gates, Mr. Naresh Goyal, Mr. Azim Premji** among many other C level Executives, dignitaries and celebrities which honed her management and communication skills.

She enjoys creative writing and was selected as the winner of the Voice of HR contest in Times of India, Ascent in Mar 2014 and has recently Co-Authored an **E-book** for Children.

<http://www.linkedin.com/in/snehalsarkar2008>

+919881376556

Some Esteemed Clients: Cognizant Technologies, CIBIL, Sunguard Availability Services, Bharat Forge Ltd., Chavan Group of Companies, Sancheti Hospital, Ruby Hall Clinic, The Potter's Earth, Pune University, Army Institute of Technology, RIMT Islampur.

Training Forte: Effective Business Communication, Corporate Etiquette, Cultural Sensitivity, Customer Service Excellence, Stress and Time Management.

Student Centric Programs: Designing a Job Search Strategy, Business Communication, Group Discussion Techniques, Interview Preparation, Presentation Skills, Campus to Corporate.

Clients Testimonials:

"My one on one session guided me in identifying my strengths, I was made to feel comfortable yet I was pushed to stay on track towards my goals. It was my help desk when it came to brainstorming career decisions."

- Associate Project Director, **TNS Global**

"The workshop was a wake -up call for us since we thought we had mastered some of these skills. Training was interactive and coherent, with real life examples and activities that kept us involved."

– Business Analyst, **Cognizant Technologies Ltd.**

"Highly interactive session. Very useful as it brought to our attention the small nuances we were missing out. Liked the explanation of the subject with practical role plays"

– Senior Management, **Bharat Forge Ltd.**

"Snehal with her detailed discussion on minutest of sections helped us in enhancing our readiness for a launch pad to our corporate career. Mock sessions have been very insightful and helpful."

- Student, Dept. Of Management Studies, **Pune University (PUMBA)**

FOR MORE DETAILS: Visit our website, <http://mindmantras.net/>

Receive updates on our facebook page: <https://www.facebook.com/MindMantras>

MINUTE SHEET

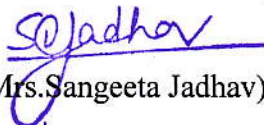
18-9-2019

Case No: AIT/IT/1357/Guest Lecture

Sheet No: 01



Please refer a note-

1. It is proposed to conduct a Guest Lecture by **Ms. Snehal Sarkar , Certified Master Life Coach & Corporate Soft Skills Trainer**. The details are as follows,
 - **Guest Speaker - Ms. Snehal Sarkar**
Certified Master Life Coach & Corporate Soft Skills Trainer
 - **Title of Talk - "Career Strategy -Creating your own Personal Brand"**
 - **Day and Time - Monday, 23rd September 2019, by 2:30 pm to 04.00 pm**
 - **Audience - SE & TE of IT department**
 - **Venue - BCJ Hall**
2. It is requested to kindly issue a cheque of **Rs.2000/-** in favour of **SNEHAL MAZAGAONKAR**, against the remuneration of Guest Lecture.
3. Profile of the speaker is placed opposite.
4. For the same the generator backup is required in case of power failure from 2.00 pm to 04.15 pm on 23rd September 2019.
5. Put up for your kind perusal and approval please.


(Dr. Mrs. Sangeeta Jadhav)
HOD IT

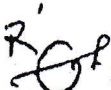
Department of Electronics and Telecommunication

1. E&ICT academy IITDM Jabalpur is one of the 7 IITs from a group of institutes set up by Ministry of Electronics and Information Technology (MeitY), Govt. of India for conducting winter courses in core areas of Electronics and Information Technology.
2. The FDP titled "VLSI Chip Design Hands on using Open Source EDA" is scheduled from 16th Dec 2019 to 20th Dec 2019. The details of FDP are attached at FLAG 'A'.
3. Department of Electronics and Telecommunication has agreed to host the same at Army Institute of Technology.
4. The FDP is free and minimum participation required to conduct the same is 30.
5. The total cost of FDP is approx. Rs. 45000/- which includes breakfast, tea, lunch and stationary. The amount along with overhead charges will be reimbursed by IITDM.
6. IITDM will also give remuneration to the institute, coordinators, and technical staff involved in the FDP. The details of the same will be provided later by IITDM.
7. Details of requirements to conduct the FDP are placed at FLAG 'B'.
8. Put up for perusal and approval pl.

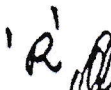
Dr. Surekha KS 
 Prof. Avinash patil 
 Coordinators
Avinash
 10/12/19


 HOD, E&Tc

Principal
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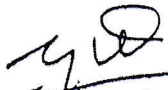

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Jt. Director


 11/12/19

Director


4
 Ok. MWD.


 19/12/19

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सत्यमेव जयते

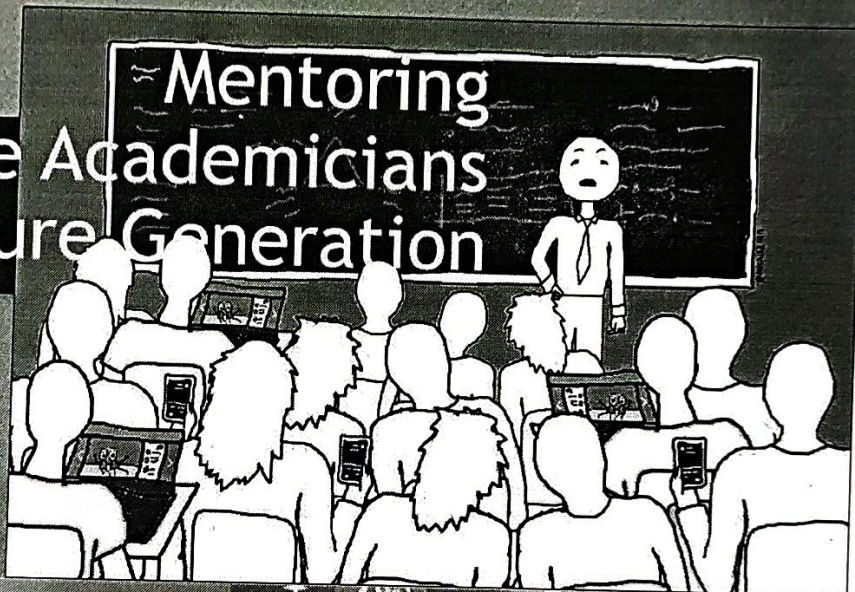


Ministry of Electronics & Information Technology

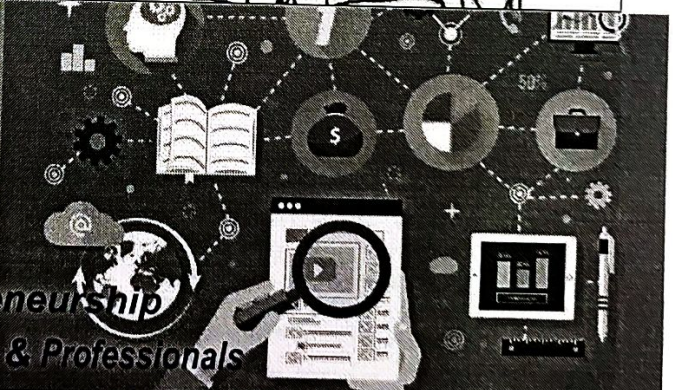


Government of India Initiative for Employability Enhancement

Mentoring Passionate Academicians for Future Generation



Faculty Training
Training and Consultancy
Services for Industry
Technical Incubation and Entrepreneurship
Continuing Education for Students & Professionals



IIT Guwahati



IIITDM Jabalpur



MNIT Jaipur



IIT Kanpur



NIT Patna



IIT Roorkee



NIT Warangal



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India is fast emerging as a world power in Information, Communications Technology and Electronics (ICTE) sectors. To complement its growth and further development, there is an ever-increasing need for trained professionals with specialization in this space. This includes training of professionals not only in existing and changing technologies but also in the fields of R&D and electronics manufacturing. This will specifically be aimed at the ICTE sector to create a substantial resource pool of talent and generate ample opportunities for entrepreneurs. Ministry of Electronics & Information Technology (MeitY) has approved a scheme and setup Electronics and ICT Academies at 07 (seven) institutions viz. IIT Guwahati, IIT Kanpur, NIT Warangal, NIT Patna and IITDM Jabalpur (all five under Category-A); and IIT Roorkee, MNIT Jaipur (both under Category B). The Ministry had earlier setup two ICT Academies at Tamil Nadu and Kerala respectively. Estimated cost and targets for the Electronics and ICT Academy in the two Categories for a period of four years are as under:

Category	Total Outlay	Internal Revenue Generation	Grants-in-Aid from Central Government	Training Target (Faculty members)
Category-A	Rs. 25 crore	Rs. 7.50 crore	Rs. 17.50 crore	16,000
Category-B	Rs. 10 crore	Rs. 3.00 crore	Rs. 7.00 crore	6,400

These Academies are aimed at faculty/mentor development and upgradation to improve the employability of the graduates, diploma holders in various streams, through collaboration of States/Union Territories. Each Academy is being provided funding support for four years and is expected to generate revenue by charging fee and taking up other activities to meet the recurring cost in a gradual manner and become self-sustainable by the end of fourth year onwards. All these Academies will cater to the requirements of identified neighbouring States and UTs also. Brief information about all the Academies is available at : <https://meit.gov.in/esdm/scheme-financial-assistance-setting-electronics-and-ict-academies>

Activities of the Academies

- Faculty development for
 - Specialized training with hands-on on basic and advanced level topics for Engineering streams and
 - Domain based training on use of ICT tools and techniques for non-engineering streams
- Training and consultancy services for industry
- Curriculum development for industry
- Continuing Education programme for students / working professionals
- Design, Develop and Deliver specialized modules for specific research areas
- Providing advice and support for technical incubation and entrepreneurial activities

About Winter Courses

Faculty Development Programmes in core areas of Electronics and Information & Communication Technology (ICT) streams have been planned by academies for delivery during Winters (i.e., Dec'19 - Jan'20). All these Winter courses will be offered through National Knowledge Network (NKN) based Video Conferencing, with lectures delivered by invited experts from IITs, NITs, IIITs and other premier institutes/industries. In addition, local course coordinators at respective academies / identified remote centres will take care of sessions on design orientation/activity linked problems/ assignments/ case studies and quiz test(s). All EICT Academies will host the participants simultaneously along with some select remote centres all over our country, through NKN-VC infrastructure. Candidates could attend the training programme at Academy locations or at identified remote centres as per the convenience. For registration participants need to apply to one of the Academies, however, they can attend the training programme at that Academy or any remote centre attached to that respective Academy, please refer to respective academy websites.

How to apply:

- A duly filled in application form in the prescribed form signed by the Head of the Institute to which the candidate belongs (along with demand draft/CBS-Cheque) should reach by post to the local coordinator of the participating academy.
- Government of India norms will be followed for SC/ST category participants.
- The application form along with the DD/CBS-Cheque can also be submitted in the online mode to Local Coordinator of the respective academy.

Note: Refer offering Academies websites for complete postal address and other details of Winter courses.



[Signature]
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Following are the programmes being offered in this Winters, Dec 2019- Jan 2020, each of 5 days duration.

S.No.	Course Name	Principal Coordinating Academy	Co-Principal Coordinating Academy	Starting date of Programme	Last date of receiving applications
1	Python Programming with Industry perspective	MNIT Jaipur Dr. E. S. Pilli	NIT Patna Dr. Bharat Gupta	2 Dec 2019	25 Nov 2019
2	Deep Learning and Applications	IIITDM Jabalpur Prof. Aparajita Ojha	NITW Prof. R. B. V. Subramanyam	9 Dec 2019	2 Dec 2019
3	VLSI Chip Design Hands on using open source EDA	IIT Guwahati Dr. Gaurav Trivedi	MNIT Jaipur Prof. Vineet Sahula	16 Dec 2019	9 Dec 2019
4	AI & Machine Learning	IIT Roorkee Prof. Sanjeev Manhas	MNIT Jaipur Dr. S. J. Nanda	23 Dec 2019	16 Dec 2019
5	Natural Language Processing (NITP+IIITDMJ/MNITJ)	NIT Patna Dr. J. P. Singh	IIITDM Jabalpur Prof. Atul Gupta	6 Jan 2020	23 Dec 2019
6	ICT Tools for Teaching, Learning process & Institutes	MNIT Jaipur, IIITDM Jabalpur, NIT Patna, IIT Guwahati, NIT Warangal (All Academies)		13 Jan 2020	6 Jan 2020

Target Beneficiaries:

Interested Faculty of engineering/technical institutions are eligible to attend these Winter courses.

Availability of seats at each offering Academy:

Only (50) seats are available for each course to be offered at each Academy/Remote Centre. Participants will be selected based on first-cum-first-serve basis by each academy. Selected participants will be communicated through e-mail / notified in E&ICT Academy websites.

Course duration:

Each course is designed as 3 credit equivalent for 40 hours (Theory Lectures, Hands-on/Design orientation/Activity linked problems/Assignments Problem Solving/Case Studies sessions/Quiz Tests)

Accommodation & Travel

Boarding and Lodging at Hostels/Guest House will be provided at free of cost only at Identified E&ICT Academies. For details please refer to respective Academy websites. At identified Remote centres only working lunch and snacks will be provided. No Travel Allowance will be paid to the participants.

Registration Fee for each Winter Course:

No Registration fee is charged for attending this programme planned at any designated academies/Remote centres. However, candidate should submit a Demand Draft/ CBS-Cheque of Rs.1000/- along with application form and the same will be handed over to the participant on the last day of the training. Certificate for participation as well as for Satisfactory performance will be given to the participants subject to fulfillment of attending all sessions, submission of assignments and clearing the test(s).

Mode of Payment:

Academy Name	Payment through DD/CBS-Cheque
IIT Guwahati	Demand Draft in favor of "Registrar, IIT Guwahati" Payable at Guwahati
IIITDM Jabalpur	Demand Draft in favor of "Electronics and ICT Academy, IIITDMJ" payable at Jabalpur
MNIT Jaipur	Demand Draft in favor of "Electronics and ICT Academy, MNIT Jaipur" Payable at Jaipur
Kanpur	Demand Draft in favor of "Director, IIT Kanpur" Payable at Kanpur
NIT Patna	Demand Draft in favor of "Director, NIT Patna" payable at Patna
IIT Roorkee	Demand Draft in favor of "Dean SRIC IIT Roorkee" payable at Roorkee
NIT Warangal	Demand Draft in favor of "Electronics and ICT Academy, NITW" payable at NIT Warangal

- Last Date for Submission of Applications is Monday of earlier week from the start date of respective programme.
- The intimation of Selection for participation will be posted on website on Wednesday of previous week.



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The following are the details of Winter courses being offered during Dec'19 –Jan'2020

1: Python Programming with Industry perspective

2 – 6 Dec 2019

Prospective external Experts- (i) Dr. Mani Madhukar, Program Manager - University Relations, IBM India Pvt. Ltd
 Experts from host institutes- (ii) Dr. E. S. Pilli,

Contents of Python Programming with Industry Perspective

S.No	Module Name	Topics
1.	Introduction & basics of to Python Programming:	History of Python, Installing Python, Executing Python Programs, Internal Working of Python, Python Implementations.
2.	Decision Statements; Loop Control Statements; Functions, Strings	Python Character Set, Token, Python Core Data Type, print() function, Assigning Value to Variable, input() function, eval() function, Formatting Number and Strings, Operators and Expressions Boolean Type, Boolean Operators, Using Number and Strings with Boolean Operators, Decision Making Statements and Conditional Expressions While loop, range () Function, For Loop, Nested Loops, Break Statement, Continue Statement Syntax and Basics of a Function, Use of a function, Parameters and Arguments, Local and Global Scope Scope of a Variable, return statement and Recursive Functions. str class, Inbuilt functions for String, index[] operator, traversal of String, String operators, String Operations
3.	Lists and Dictionaries; Tuples and Sets; File Handling; Pandas	Creating Lists, Basic list operators, Slicing, Inbuilt functions for Lists, List operator, List Methods, Splitting, Need of Dictionary, Creating a Dictionary , Adding and Replacing Values, Retrieving Values ; Deleting Items and Traversing Dictionaries. Tuples and Sets: Creating Tuples; Tuple () Function, Inbuilt Functions for Tuples, Indexing and Slicing; Operations on Tuples; Traverse Tuples from a List, Set operators; Set class. Object-Oriented Programming: Classes and objects, methods, Operator Overloading, Inheritance, super () and Method Overriding. File Handling: Need of File Handling, Reading/Writing Text and Numbers to/from a File; Directories on a disk. Pandas: Using Pandas, the python data analysis library and data frames
4.	Data Handling and Use Cases	RE Pattern Matching, Parsing Data, Introduction to Regression , Types of Regression , Use Cases , Exploratory data analysis , Correlation Matrix , Visualization using Matplotlib and Implementing linear regression.
5.	Machine Learning	Machine Learning - Algorithm, Algorithms - Random forest , Super vector Machine , Random Forest , Build your own model in python and Comparison between random forest and decision tree.

Principal Coordinator - Academy	Go- Principal Coordinator - Academy	Participating Academies and Local Coordinator Details
Dr. E. S. Pilli espilli.cse@mnit.ac.in M: 954 965 8131 MNIT Jaipur	Dr. Bharat Gupta bharat@nitp.ac.in Mobile:93314 06964 NIT Patna	IIITDM Jabalpur- Dr. Atul Gupta, M: 9425152499 Phone:+761-2794223 Email: atul@iiitdmj.ac.in
		MNIT Jaipur - Dr. Dinesh Tyagi & Dr. Yogesh Meena, dktyagi.cse@mnit.ac.in , M: 9549658130, ymeena.cse@mnit.ac.in , M: 9461306647
		NIT Patna- Dr. Mukesh Kumar, & Dr. Somaraju Suvvari, mukesh.kumar@nitp.ac.in M: 8984142557, somaraju@nitp.ac.in , M: 9676430356



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2: Deep learning & applications

9 – 13 Dec 2019

Prospective external Experts- (i) Industry support from NVidia, MathWorks (MATLAB) (ii) Dr. Anupama Ray, IBM (iii) Dr. Ritu, Intel, (iv) Prof. R. Venkatesh Babu, IISc Bangalore (confirmation awaited)
Experts from host institutes- (iii) Prof. Aparajita Ojha, IIITDMJ (iv) Dr. Santosh Vipparthi, MNITJ

Contents of modules of Deep Learning & Applications

S.No.	Module Name	Topics
1.	Introduction to Machine Learning & Artificial Neural Networks	Overview of machine learning, Supervised and unsupervised learning , Artificial Neural Networks, Feedforward Neural networks, Gradient Descent and the back propagation algorithms, Regularization and Optimization. Difference between typical machine learning and deep learning Practice Session: Introduction to Python Programming, Tensorflow and Keras.
2.	Convolutional Neural Networks	Making a Neural Network, training and testing. Saving the best weights and model Convolutional Neural Network (CNN), Convolution/Pooling layers, Activation maps, CNN as a feature extractor, Some Standard CNN architectures like AlexNet, VGGNet, GoogLeNet, ResNet and more recent networks Practice Session: Building a CNN model, CNN for image classification. Using Google Colab for building and training Deep Learning Models.
3.	Autoencoders and Generative Adversarial Networks	Autoencoders (AEs), Undercomplete and Overcomplete AE, Convolutional AE, Regularization, Sparsely regulated AEs, Denoising and Stacked AE. Generative Adversarial Networks (GAN), Variants of GAN. Practice Session: Using pretrained models, Transfer learning, Applying GoogleNet and ResNet for specific problems. Using Autoencoders
4.	Recurrent Neural Networks	Brief Introduction to Recurrent Neural Networks, LSTM, GRU and their applications in machine translation, language modelling and sentiment classification. Practice Session: Building an AI application for sentiment classification from travel/hotel website user feedback data.
5	CNN Application to Classification and Detection problems	Object detection algorithms, R-CNN, Faster R-CNN, YOLO and SSD. Hands on-Object detection. Practice Session: Installing Darknet framework on your laptop, how to use YOLO for object detection.

Principal Coordinator - Academy	Co-Principal Coordinator - Academy	Participating Academies and Local Coordinator Details
Prof. Aparajita Ojha aojha@iiitdmj.ac.in M: 9425800334 IIITDM Jabalpur	Prof. R. B. V. Subramanyam eict.nitw@gmail.com M: 091210 16547 NIT Warangal	IIITDM Jabalpur- Dr. Irshad Ansari, Email: irshad@iiitdmj.ac.in M: 9109106995; Phone: +761-2794478; MNIT Jaipur - Dr. Santosh Vipparthi & Dr. Ramesh Battula, MNIT Jaipur skvipparthi@mnit.ac.in , M: 954 965 8135 rbbattula.cse@mnit.ac.in , M: 954 9654 395; NIT Patna - Dr. Subodh Srivastava, & Dr. Rajib Ghosh, subodh@nitp.ac.in M: 7565036892, rajib.ghosh@nitp.ac.in M: 8084023813 NIT Warangal- Prof. R. B. V. Subramanyam eict.nitw@gmail.com , M: 091210 16547

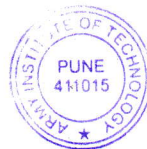


Participant List

College Name : Army Institute of Technology, Pune

FDP Name with Date : "VLSI CHIP DESIGN HANDS ON USING OPEN SOURCE EDA" (16/12/2019 - 20/12/2019)

SNo	Name	Faculty/ Student/ Others	Male/Female	Category (SC/ST/ OBC/UR)	Institution	Mobile No.
1	Mr Jagtap D V	Faculty	Male	UR	DYPIET,Ambi, Pune	9527633604
2	Ms. Dhanashree Patil	Faculty	Female	UR	Army Institute of Technology, Pune	9403565462
3	Mr. J B Jawale	Faculty	Male	UR	Army Institute of Technology, Pune	9923565542
4	Mr Vijaykumar Karra	Faculty	Male	UR	Army Institute of Technology, Pune	9823256569
5	Mr. Girish Kapse	Faculty	Male	UR	Army Institute of Technology, Pune	8793394705
6	Ms. Pragati Rana	Faculty	Female	UR	Army Institute of Technology, Pune	8878636261
7	Mr D G Auradkar	Faculty	Male	UR	Army Institute of Technology, Pune	9422300730
8	Mrs. Preeti Warriar	Faculty	Female	UR	Army Institute of Technology, Pune	9325095944
9	Ms. Snehal Marathe	Faculty	Female	UR	Army Institute of Technology, Pune	9604225393
10	Dr. Surekha K S	Faculty	Female	UR	Army Institute of Technology, Pune	9422356483
11	Mr. Avinash Patil	Faculty	Male	UR	Army Institute of Technology, Pune	9823678051
12	Dr. Rahul Desai	Faculty	Male	UR	Army Institute of Technology, Pune	9284234918
13	Dr. G R Patil	Faculty	Male	UR	Army Institute of Technology, Pune	9422510862
14	Mrs. Rajashree Suryawanshi	Faculty	Female	UR	Army Institute of Technology, Pune	9423913847
15	Dr. Harjeet Kaur	Faculty	Female	UR	Army Institute of Technology, Pune	7798777110
16	Dr. P B Karandikar	Faculty	Male	UR	Army Institute of Technology, Pune	9420427741
17	Ms. P A Bhosale	Faculty	Female	UR	D Y Patil, IOT, Pimpri, Pune	9960599324
18	Mr P R Sonwane	Faculty	Male	UR	Army Institute of Technology, Pune	9420061004
19	Mrs.Sushma Patil	Faculty	Female	UR	Army Institute of Technology, Pune	9923298051
20	Ms.Shilpa Pawar	Faculty	Female	UR	Army Institute of Technology, Pune	9975792033
21	Mrs. Geeta Patil	Faculty	Female	UR	Army Institute of Technology, Pune	9158368567
22	Dr.N K Bansode	Faculty	Male	UR	Army Institute of Technology, Pune	9822666427
23	Mr.Kishor Bhangale	Faculty	Male	UR	D Y P C O E Akurdi,Pune	7709710711
24	Mr.R B Gurav	Faculty	Male	UR	Army Institute of Technology, Pune	7350057110
25	Dr.Rashmi Mahajan	Faculty	Female	UR	D Y Patil School of Engg.Lohegaon, Pune	9225117803
26	Mr. Vishal Katekar	Faculty	Male	UR	Dr DY Patil school of Engg. & Tech, Lohegaon, Pune	8888805756
27	Mr.Samleti D Sandeep	Faculty	Male	UR	Army Institute of Technology, Pune	8007000879

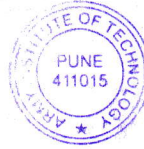


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College Name : Army Institute of Technology, Pune

FDP Name with Date : "VLSI CHIP DESIGN HANDS ON USING OPEN SOURCE EDA" (16/12/2019 - 20/12/2019)

SNo	Name	Faculty/ Student/ Others	Male/Female	Category (SC/ST/ OBC/UR)	Institution	Mobile No.
28	Dr. Anil Wanare	Faculty	Male	UR	JSPM B.S institute of Technology and Research, Pune	7350008709
29	Mrs.Sushama Shirke	Faculty	Female	UR	Army Institute of Technology, Pune	9146041184
30	Mrs.Rushali Patil	Faculty	Female	UR	Army Institute of Technology, Pune	9922998031
31	Mr Pratik D.Shah	Faculty	Male	UR	D Y Patil School of Engg, Lohegaon Pune	9970233397
32	Mrs. Sujata Kadam	Other	Female	UR	Army Institute of Technology, Pune	9423047541
33	Ms. Jyoti Taralkar	Other	Female	UR	Army Institute of Technology, Pune	9822521341



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AIT/ETC/1232/1577P

Minute Sheet

Sheet No.01

Department of Electronics and Telecommunication

1. E&ICT academy IITDM Jabalpur is one of the 7 IITs from a group of institutes set up by Ministry of Electronics and Information Technology (MeitY), Govt. of India for conducting winter courses in core areas of Electronics and Information Technology.
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6. IITDM will also give remuneration to the institute, coordinators, and technical staff involved in the FDP. The details of the same will be provided later by IITDM.
7. Details of requirements to conduct the FDP are placed at FLAG 'B'.
8. Put up for perusal and approval pl.

Dr. Surekha KS *[Signature]*
 Prof. Avinash patil *[Signature]*
 Coordinators

[Signature] 23/12/19
 HOD, E&Tc

[Signature] 26/12/19
 Principal

Useful for NBA ✓

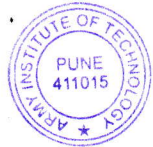
[Signature] 30/12/19
 Joint Director

[Signature] 20/12/19
 Director

1. Please ensure maximum participation. Advise
 2. This is a very good module.

Dr. Surekha to brief me on 01/1/20.

Dr.



Principal *[Signature]* 20/12/19
 Army Institute of Technology
 Dighi Hillis, Pune - 411015

MAIN OFFICE	
SR No	4281
Dt.	26/12
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Principal Office
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Dt.
Sign



सत्यमेव जयते

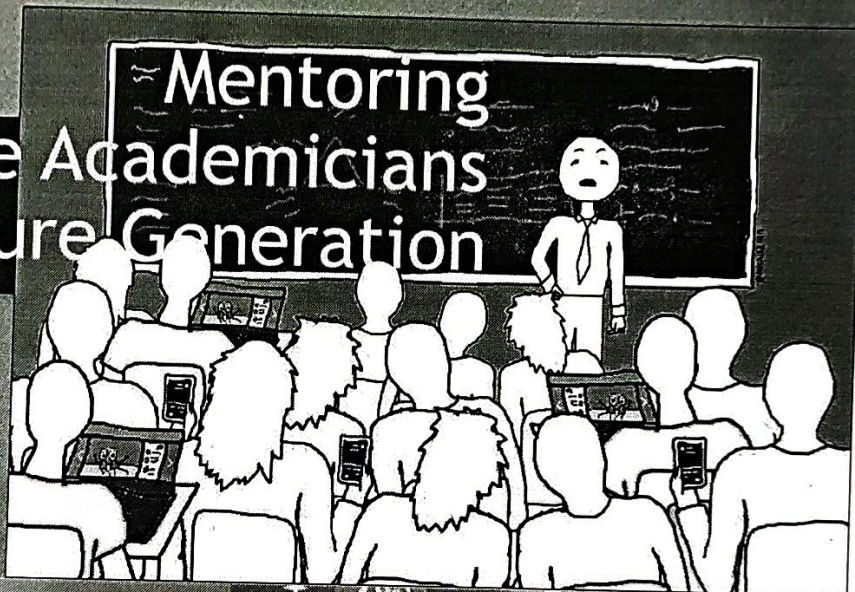


Ministry of Electronics & Information Technology

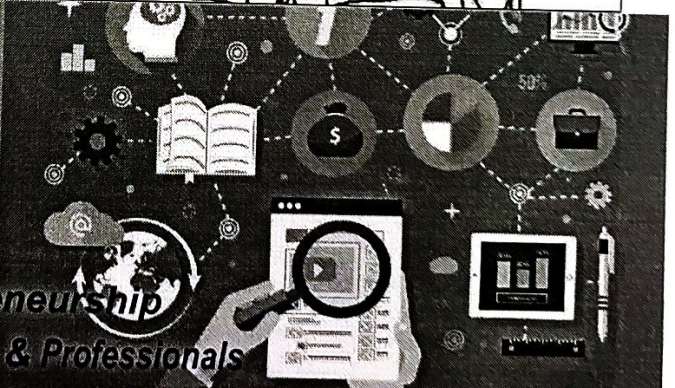


Government of India Initiative for Employability Enhancement

Mentoring Passionate Academicians for Future Generation



Faculty Training
Training and Consultancy
Services for Industry
Technical Incubation and Entrepreneurship
Continuing Education for Students & Professionals



IIT Guwahati



IIITDM Jabalpur



MNIT Jaipur



IIT Kanpur



NIT Patna



IIT Roorkee



NIT Warangal



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Army Institute of Technology
Dighi Hillis, Pune - 411015

India is fast emerging as a world power in Information, Communications Technology and Electronics (ICTE) sectors. To complement its growth and further development, there is an ever-increasing need for trained professionals with specialization in this space. This includes training of professionals not only in existing and changing technologies but also in the fields of R&D and electronics manufacturing. This will specifically be aimed at the ICTE sector to create a substantial resource pool of talent and generate ample opportunities for entrepreneurs. Ministry of Electronics & Information Technology (MeitY) has approved a scheme and setup Electronics and ICT Academies at 07 (seven) institutions viz. IIT Guwahati, IIT Kanpur, NIT Warangal, NIT Patna and IITDM Jabalpur (all five under Category-A); and IIT Roorkee, MNIT Jaipur (both under Category B). The Ministry had earlier setup two ICT Academies at Tamil Nadu and Kerala respectively. Estimated cost and targets for the Electronics and ICT Academy in the two Categories for a period of four years are as under:

Category	Total Outlay	Internal Revenue Generation	Grants-in-Aid from Central Government	Training Target (Faculty members)
Category-A	Rs. 25 crore	Rs. 7.50 crore	Rs. 17.50 crore	16,000
Category-B	Rs. 10 crore	Rs. 3.00 crore	Rs. 7.00 crore	6,400

These Academies are aimed at faculty/mentor development and upgradation to improve the employability of the graduates, diploma holders in various streams, through collaboration of States/Union Territories. Each Academy is being provided funding support for four years and is expected to generate revenue by charging fee and taking up other activities to meet the recurring cost in a gradual manner and become self-sustainable by the end of fourth year onwards. All these Academies will cater to the requirements of identified neighbouring States and UTs also. Brief information about all the Academies is available at : <https://meit.gov.in/esdm/scheme-financial-assistance-setting-electronics-and-ict-academies>

Activities of the Academies

- Faculty development for
 - Specialized training with hands-on on basic and advanced level topics for Engineering streams and
 - Domain based training on use of ICT tools and techniques for non-engineering streams
- Training and consultancy services for industry
- Curriculum development for industry
- Continuing Education programme for students / working professionals
- Design, Develop and Deliver specialized modules for specific research areas
- Providing advice and support for technical incubation and entrepreneurial activities

About Winter Courses

Faculty Development Programmes in core areas of Electronics and Information & Communication Technology (ICT) streams have been planned by academies for delivery during Winters (i.e., Dec'19 - Jan'20). All these Winter courses will be offered through National Knowledge Network (NKN) based Video Conferencing, with lectures delivered by invited experts from IITs, NITs, IIITs and other premier institutes/industries. In addition, local course coordinators at respective academies / identified remote centres will take care of sessions on design orientation/activity linked problems/ assignments/ case studies and quiz test(s). All EICT Academies will host the participants simultaneously along with some select remote centres all over our country, through NKN-VC infrastructure. Candidates could attend the training programme at Academy locations or at identified remote centres as per the convenience. For registration participants need to apply to one of the Academies, however, they can attend the training programme at that Academy or any remote centre attached to that respective Academy, please refer to respective academy websites.

How to apply:

- A duly filled in application form in the prescribed form signed by the Head of the Institute to which the candidate belongs (along with demand draft/CBS-Cheque) should reach by post to the local coordinator of the participating academy.
- Government of India norms will be followed for SC/ST category participants.
- The application form along with the DD/CBS-Cheque can also be submitted in the online mode to Local Coordinator of the respective academy.

Note: Refer offering Academies websites for complete postal address and other details of Winter courses.



Following are the programmes being offered in this Winters, Dec 2019- Jan 2020, each of 5 days duration.

S.No.	Course Name	Principal Coordinating Academy	Co-Principal Coordinating Academy	Starting date of Programme	Last date of receiving applications
1	Python Programming with Industry perspective	MNIT Jaipur Dr. E. S. Pilli	NIT Patna Dr. Bharat Gupta	2 Dec 2019	25 Nov 2019
2	Deep Learning and Applications	IIITDM Jabalpur Prof. Aparajita Ojha	NITW Prof. R. B. V. Subramanyam	9 Dec 2019	2 Dec 2019
3	VLSI Chip Design Hands on using open source EDA	IIT Guwahati Dr. Gaurav Trivedi	MNIT Jaipur Prof. Vineet Sahula	16 Dec 2019	9 Dec 2019
4	AI & Machine Learning	IIT Roorkee Prof. Sanjeev Manhas	MNIT Jaipur Dr. S. J. Nanda	23 Dec 2019	16 Dec 2019
5	Natural Language Processing (NITP+IIITDMJ/MNITJ)	NIT Patna Dr. J. P. Singh	IIITDM Jabalpur Prof. Atul Gupta	6 Jan 2020	23 Dec 2019
6	ICT Tools for Teaching, Learning process & Institutes	MNIT Jaipur, IIITDM Jabalpur, NIT Patna, IIT Guwahati, NIT Warangal (All Academies)		13 Jan 2020	6 Jan 2020

Target Beneficiaries:

Interested Faculty of engineering/technical institutions are eligible to attend these Winter courses.

Availability of seats at each offering Academy:

Only (50) seats are available for each course to be offered at each Academy/Remote Centre. Participants will be selected based on first-cum-first-serve basis by each academy. Selected participants will be communicated through e-mail / notified in E&ICT Academy websites.

Course duration:

Each course is designed as 3 credit equivalent for 40 hours (Theory Lectures, Hands-on/Design orientation/Activity linked problems/Assignments Problem Solving/Case Studies sessions/Quiz Tests)

Accommodation & Travel

Boarding and Lodging at Hostels/Guest House will be provided at free of cost only at Identified E&ICT Academies. For details please refer to respective Academy websites. At identified Remote centres only working lunch and snacks will be provided. No Travel Allowance will be paid to the participants.

Registration Fee for each Winter Course:

No Registration fee is charged for attending this programme planned at any designated academies/Remote centres. However, candidate should submit a Demand Draft/ CBS-Cheque of Rs.1000/- along with application form and the same will be handed over to the participant on the last day of the training. Certificate for participation as well as for Satisfactory performance will be given to the participants subject to fulfillment of attending all sessions, submission of assignments and clearing the test(s).

Mode of Payment:

Academy Name	Payment through DD/CBS-Cheque
IIT Guwahati	Demand Draft in favor of "Registrar, IIT Guwahati" Payable at Guwahati
IIITDM Jabalpur	Demand Draft in favor of "Electronics and ICT Academy, IIITDMJ" payable at Jabalpur
MNIT Jaipur	Demand Draft in favor of "Electronics and ICT Academy, MNIT Jaipur" Payable at Jaipur
Kanpur	Demand Draft in favor of "Director, IIT Kanpur" Payable at Kanpur
NIT Patna	Demand Draft in favor of "Director, NIT Patna" payable at Patna
IIT Roorkee	Demand Draft in favor of "Dean SRIC IIT Roorkee" payable at Roorkee
NIT Warangal	Demand Draft in favor of "Electronics and ICT Academy, NITW" payable at NIT Warangal

- Last Date for Submission of Applications is Monday of earlier week from the start date of respective programme.
- The intimation of Selection for participation will be posted on website on Wednesday of previous week.



The following are the details of Winter courses being offered during Dec'19 –Jan'2020

1: Python Programming with Industry perspective

2 – 6 Dec 2019

Prospective external Experts- (i) Dr. Mani Madhukar, Program Manager - University Relations, IBM India Pvt. Ltd
Experts from host institutes- (ii) Dr. E. S. Pilli,

Contents of Python Programming with Industry Perspective

S.No	Module Name	Topics
1.	Introduction & basics of to Python Programming:	History of Python, Installing Python, Executing Python Programs, Internal Working of Python, Python Implementations. Python Character Set, Token, Python Core Data Type, print() function, Assigning Value to Variable, input() function, eval() function, Formatting Number and Strings, Operators and Expressions
2.	Decision Statements; Loop Control Statements; Functions, Strings	Boolean Type, Boolean Operators, Using Number and Strings with Boolean Operators, Decision Making Statements and Conditional Expressions While loop, range () Function, For Loop, Nested Loops, Break Statement, Continue Statement Syntax and Basics of a Function, Use of a function, Parameters and Arguments, Local and Global Scope Scope of a Variable, return statement and Recursive Functions. str class, Inbuilt functions for String, index[] operator, traversal of String, String operators, String Operations
3.	Lists and Dictionaries; Tuples and Sets; File Handling; Pandas	Creating Lists, Basic list operators, Slicing, Inbuilt functions for Lists, List operator, List Methods, Splitting, Need of Dictionary, Creating a Dictionary , Adding and Replacing Values, Retrieving Values ; Deleting Items and Traversing Dictionaries. Tuples and Sets: Creating Tuples; Tuple () Function, Inbuilt Functions for Tuples, Indexing and Slicing; Operations on Tuples; Traverse Tuples from a List, Set operators; Set class. Object-Oriented Programming: Classes and objects, methods, Operator Overloading, Inheritance, super () and Method Overriding. File Handling: Need of File Handling, Reading/Writing Text and Numbers to/from a File; Directories on a disk. Pandas: Using Pandas, the python data analysis library and data frames
4.	Data Handling and Use Cases	RE Pattern Matching, Parsing Data, Introduction to Regression , Types of Regression , Use Cases , Exploratory data analysis , Correlation Matrix , Visualization using Matplotlib and Implementing linear regression.
5.	Machine Learning	Machine Learning - Algorithm, Algorithms - Random forest , Super vector Machine , Random Forest , Build your own model in python and Comparison between random forest and decision tree.

Principal Coordinator - Academy	Go- Principal Coordinator - Academy	Participating Academies and Local Coordinator Details
Dr. E. S. Pilli espilli.cse@mnit.ac.in M: 954 965 8131 MNIT Jaipur	Dr. Bharat Gupta bharat@nitp.ac.in Mobile:93314 06964 NIT Patna	IIITDM Jabalpur- Dr. Atul Gupta, M: 9425152499 Phone:+761-2794223 Email: atul@iiitdmj.ac.in
		MNIT Jaipur - Dr. Dinesh Tyagi & Dr. Yogesh Meena, dktyagi.cse@mnit.ac.in , M: 9549658130, ymeena.cse@mnit.ac.in , M: 9461306647
		NIT Patna- Dr. Mukesh Kumar, & Dr. Somaraju Suvvari, mukesh.kumar@nitp.ac.in M: 8984142557, somaraju@nitp.ac.in , M: 9676430356



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2: Deep learning & applications

9 – 13 Dec 2019

Prospective external Experts- (i) Industry support from NVidia, MathWorks (MATLAB) (ii) Dr. Anupama Ray, IBM (iii) Dr. Ritu, Intel, (iv) Prof. R. Venkatesh Babu, IISc Bangalore (confirmation awaited)
Experts from host institutes- (iii) Prof. Aparajita Ojha, IIITDMJ (iv) Dr. Santosh Vipparthi, MNITJ

Contents of modules of Deep Learning & Applications

S.No.	Module Name	Topics
1.	Introduction to Machine Learning & Artificial Neural Networks	Overview of machine learning, Supervised and unsupervised learning , Artificial Neural Networks, Feedforward Neural networks, Gradient Descent and the back propagation algorithms, Regularization and Optimization. Difference between typical machine learning and deep learning Practice Session: Introduction to Python Programming, Tensorflow and Keras.
2.	Convolutional Neural Networks	Making a Neural Network, training and testing. Saving the best weights and model Convolutional Neural Network (CNN), Convolution/Pooling layers, Activation maps, CNN as a feature extractor, Some Standard CNN architectures like AlexNet, VGGNet, GoogLeNet, ResNet and more recent networks Practice Session: Building a CNN model, CNN for image classification. Using Google Colab for building and training Deep Learning Models.
3.	Autoencoders and Generative Adversarial Networks	Autoencoders (AEs), Undercomplete and Overcomplete AE, Convolutional AE, Regularization, Sparsely regulated AEs, Denoising and Stacked AE. Generative Adversarial Networks (GAN), Variants of GAN. Practice Session: Using pretrained models, Transfer learning, Applying GoogleNet and ResNet for specific problems. Using Autoencoders
4.	Recurrent Neural Networks	Brief Introduction to Recurrent Neural Networks, LSTM, GRU and their applications in machine translation, language modelling and sentiment classification. Practice Session: Building an AI application for sentiment classification from travel/hotel website user feedback data.
5	CNN Application to Classification and Detection problems	Object detection algorithms, R-CNN, Faster R-CNN, YOLO and SSD. Hands on-Object detection. Practice Session: Installing Darknet framework on your laptop, how to use YOLO for object detection.

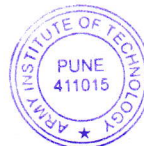
Principal Coordinator - Academy	Co-Principal Coordinator - Academy	Participating Academies and Local Coordinator Details
Prof. Aparajita Ojha aojha@iiitdmj.ac.in M: 9425800334 IIITDM Jabalpur	Prof. R. B. V. Subramanyam eict.nitw@gmail.com M: 091210 16547 NIT Warangal	IIITDM Jabalpur- Dr. Irshad Ansari, Email: irshad@iiitdmj.ac.in M: 9109106995; Phone: +761-2794478; MNIT Jaipur - Dr. Santosh Vipparthi & Dr. Ramesh Battula, MNIT Jaipur skvipparthi@mnit.ac.in , M: 954 965 8135 rbbattula.cse@mnit.ac.in , M: 954 9654 395; NIT Patna - Dr. Subodh Srivastava, & Dr. Rajib Ghosh, subodh@nitp.ac.in M: 7565036892, rajib.ghosh@nitp.ac.in M: 8084023813 NIT Warangal- Prof. R. B. V. Subramanyam eict.nitw@gmail.com , M: 091210 16547



Participant List

FDP Name with Date : "ICT Tools & Techniques for Teaching ,Learning process & Institutes" (13/1/2020 - 17/1/2020)
College Name : Army Institute of Technology, Pune

Sr No	Name	Faculty/ Student/ Others	Male/Female	Category (SC/ST/ OBC/UR)	Institution	Mobile No
1	Ms Sushma Patil	Faculty	Female	UR	Army Institute of Technology, Pune	9923298051
2	Mr Arinash Patil	Faculty	Male	UR	Army Institute of Technology, Pune	9823678051
3	Ms Pranita Bhosale	PhD. Research	Female	UR	D Y Patil I .O. T .Pimpri	9960599324
4	Mr M B Lonare	Faculty	Male	UR	Army Institute of Technology, Pune	9423166105
5	Mr P D Hore	Faculty	Male	UR	Army Institute of Technology, Pune	9890704429
6	Dr P B Karandikar	Faculty	Male	UR	Army Institute of Technology, Pune	9420427741
7	Mr D G Aurasdkar	Faculty	Male	UR	Army Institute of Technology, Pune	9422300730
8	Mr K A Hule	Faculty	Male	UR	Army Institute of Technology, Pune	8668277166
9	Mr G P Kapse	Faculty	Male	UR	Army Institute of Technology, Pune	8793394705
10	Ms V S Ingale	Faculty	Female	SC	Army Institute of Technology, Pune	9371165218
11	Mr Rushikesh Patil	Faculty	Male	UR	Army Institute of Technology, Pune	9822891234
12	Dr. Rahul Desai	Faculty	Male	UR	Army Institute of Technology, Pune	9284234918
13	Dr. G R Patil	Faculty	Male	UR	Army Institute of Technology, Pune	9422510862
14	Dr Ganesh Mundhe	Faculty	Male	UR	Army Institute of Technology, Pune	9579408564
15	Dr Jayadevan	Faculty	Male	UR	Army Institute of Technology, Pune	9881195915
16	Mr Yogesh V Patel	Faculty	Male	UR	Army Institute of Technology, Pune	9422356308
17	Mr Ramshirdmani Verma	Faculty	Male	UR	Army Institute of Technology, Pune	9881752034
18	Dr Sangeeta Jadhav	Faculty	Female	UR	Army Institute of Technology, Pune	9923911211
19	Dr N K Bansode	Faculty	Male	UR	Army Institute of Technology, Pune	9822666427
20	Mr Anup Kadam	Faculty	Male	UR	Army Institute of Technology, Pune	9922996848
21	Dr Sunil Dhore	Faculty	Male	UR	Army Institute of Technology, Pune	9890809251
22	Mr J B Jawale	Faculty	Male	UR	Army Institute of Technology, Pune	9923565542
23	Ms Trupti P Bidave	Faculty	Female	UR	Army Institute of Technology, Pune	9637357079
24	Mr Mahesh B Phatangare	Faculty	Male	UR	Army Institute of Technology, Pune	9922688290
25	Dr Sanjiv Sansgiri	Faculty	Male	UR	Army Institute of Technology, Pune	9881399777
26	Ms Trupti Katte	Faculty	Female	UR	Army Institute of Technology, Pune	9766201388
27	Dr Surekha K S	Faculty	Female	UR	Army Institute of Technology, Pune	9422356483



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ECT Academy, IIITDM, Jabalpur: Winter NKN Course (FDP)(An Initiative of Ministry of Electronics IT, Government of India)

College Name : Army Institute of Technology, Pune

FDP Name with Date : "ICT Tools & Techniques for Teaching ,Learning process & Institutes" (13/1/2020 - 17/1/2020)

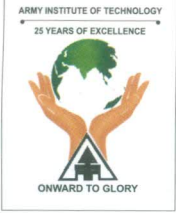
SNo	Name	Faculty/ Student/ Others	Male/Female	Category (SC/ST/ OBC/UR)	Institution	Mobile No
28	Dr A V Kulkarni	Faculty	Female	UR	DIT Pimpri , Pune	9850896653
29	Dr P Malhi	Faculty	Female	UR	D Y P COE ,Akurdi	9823152302
30	Ms Snehal Gaikwad	Faculty	Female	UR	D Y P COE ,Akurdi	9920922726
31	Dr Arti Bang	Faculty	Female	UR	VIIT, Pune	9422986012
32	Mr PR Sonawane	Faculty	Male	UR	Army institute of Technology, Pune	9420061004
33	Dr Shailaja Patil	Faculty	Female	UR	RSCOE, Pune	9890367938
34	Mrs Preeti Patil	Faculty	Female	UR	Army Institute of Technology, Pune	8888449242




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ONWARD TO GLORY



Army Institute Of Technology (AIT) Dighi Camp, Pune-15

Director : (020) 27157758, Joint Director : (020) 27157977, Principal : (020) 27157741

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Website : www.aitpune.com, Email : ait@aitpune.edu.in

Recognised by AICTE and DTE Maharashtra and affiliated to Savitribai Phule Pune University

Dear Sir/Ma'am,

It gives us immense pleasure to invite you for participating in Faculty Development Programme on "*ICT Tools for Teaching Learning process & Institutes*" under **MEITY (Ministry of Electronics & Information Technology)**, during **13-17th Jan 2020** at the Department of Electronics & Telecommunication, **Army Institute of Technology, Pune.**

MEITY has approved a scheme and setup Electronics and ICT Academies at 07 (seven) institutions viz. IIT Guwahati, IIT Kanpur, NIT Warangal, NIT Patna and IIITDM Jabalpur (all five under Category-A); and IIT Roorkee, MNIT Jaipur (both under Category B).

Faculty Development Programmes in core areas of Electronics and Information & Communication Technology (ICT) streams have been planned by academies for delivery during winters (i.e., 2 Dec'19 -17 Jan'20). All these winter courses will be offered through National Knowledge Network (NKN) based Video Conferencing, with lectures delivered by invited experts from IITs, NITs, IIITs and other premier institutes/industries. In addition, local course coordinators at respective academies /identified remote centers will take care of sessions on design orientation/activity linked problems/ assignments/ case studies and quiz test(s).

Candidates could attend the training programme at Academy locations or at identified remote centers as per the convenience. For registration participants need to apply to one of the Academies, however, they can attend the training programme at that Academy or any remote center attached to that respective Academy, please refer to respective academy websites.

Army Institute of Technology Pune is one of the approved remote centers under IIITDM Jabalpur to conduct the FDPs. The details of the FDPs can be found in the attachment. Registrations for the FDP are invited from faculty of Engineering/Technical institutions. There are no registration fees for the FDP. Please feel free to contact the following coordinators regarding the same. **The last date of registration is 7th Jan 2020.** There is a limited number of seats in FDP.


Kindly refer to the attached brochure for detailed information.

Dr Surekha K S
Professor, Department of E&Tc,
Army Institute of Technology
Mobile:9422356483
Email:surekhaks@aitpune.edu.in

Prof. Avinash Patil
Assistant Professor, Department of E&Tc
Army Institute of Technology
Mobile:9823678051
Email: apatil@aitpune.edu.in


Dr. B P Patil
Principal




Principal
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