

Criteria 6.3.3

**Index of Average number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the last five years
AY 2019-20**

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1. Introduction

IIT Bombay has conducted many large-scale teacher training workshops under the Train 10,000 Teachers (T10KT) programme, sponsored by the National Mission on Education through ICT (NMEICT), MHRD, Govt. of India, and trained over 2,00,000 teachers.

Another successful technology developed at IIT Bombay is Spoken Tutorial, using which about 50 lakh students have been trained on various ICT topics. The effectiveness of this method can be seen from the testimonials available here: <https://spoken-tutorial.org/testimonials/media/?foss=70> and this [TEDx talk](#). The Spoken Tutorial project is also implemented successfully at IIT Bombay, with funding from NMEICT, MHRD.

It is now proposed to offer the highly effective Spoken Tutorial based ICT training to a large number of teachers, across the country, through the T10KT methodology, with Python training being taken up next.

Python is a very versatile and easy-to-learn programming language with an extensive library of open tools allowing users to solve a variety of problems. Python has a rich ecosystem of libraries and tools for scientific computing and data science. There are libraries that provide a powerful interactive computing environment both on the console as well as on a web-browser. Python can interface relatively easily with other well-established languages like FORTRAN/C and C++. In addition to this Python also has libraries to build user interfaces, build web applications, interface to hardware, and a whole host of other domains. This makes Python an excellent language to learn opening up a world of possibilities to users who desire to use their computers more effectively.

The FOSSEE (Free/Libre and Open Source Software for Education) project at IIT Bombay (<https://fossee.in>) has been promoting Python, and other FLOSS software, such as Scilab, OpenFOAM, eSim, Osdag, OpenModelica, DWSIM & R, and Open Source hardware, such as Arduino and OpenPLC. FOSSEE is also funded by NMEICT, MHRD. Government of India has mandated the use of open source software.

As Spoken Tutorial method offers hands on practice, with 100% active learning, those who undergo this training will be able to start using Python immediately after the workshop. They will also be able to conduct Python workshops for their

students, using Spoken Tutorials, on their own, without requiring any help from anyone else.

The one day Python workshop will be conducted on **Saturday, 22 June 2019**, through select Remote Centres of IIT Bombay. This will be a blended training programme that uses A-VIEW for live interactions and Spoken Tutorials to learn to use Python. The medium of instruction for this workshop is English.

2. Methodology of the Large-scale Workshop

It will be a **one day workshop, on 22 June 2019**. All participants will have to go to their chosen Remote Centre. They will learn Python through Spoken Tutorials, with help from Coordinators, already trained for this purpose by IIT Bombay. As the learning will happen only through carefully designed Spoken Tutorials, designed and developed at IIT Bombay, the quality of learning will be very high. All the participants, from all the Remote Centres, will be able to interact with the Python team at IIT Bombay, ask them questions, etc., through the video conferencing software A-VIEW and a timed discussion forum. There will be about 4 hours available for Python training and 2 hours for interactions.

3. Outline of the workshop

The workshop will have two parts:

- About 3.5 hours will be used in Learning Python from Spoken Tutorials.
- About 30 minutes will be used to learn about the excellent Python content, developed by FOSSEE.

3 (a) Learning Python from Spoken Tutorials

Depending on the level of the user, one can learn any/all of the topics mentioned below. If one cannot complete all the topics, one can complete them later on, through self-learning, as all required Spoken Tutorials are freely available.

Getting started: Getting started with IPython, Using plot commands interactively, Embellishing a plot, Saving plots, Multiple plots, Subplots, Additional features of IPython, Loading data from files, Plotting data, Other types of plots, Plotting charts.

Basic Level: Getting started with lists, Getting started with for, Getting started with strings, Getting started with

files, Parsing data, Statistics, Getting started with arrays, Accessing parts of arrays, Image manipulation using arrays, Basic matrix operations, Advanced matrix operations, Least square fit, Basic datatypes and operators, Sequence datatypes, Input-Output, Conditional statements, Loops, Manipulating lists, Manipulating strings, Getting started with tuples, Dictionaries, Sets, Getting started with functions.

Intermediate Level: Advanced Features of Functions, Using Python Modules, Writing Python Scripts, Testing and Debugging, Error and Exception Handling.

3 (b) Useful Python content developed by FOSSEE

A significant issue with the acceptance of open source software on a large scale by academia is due to the lack of documentation. We had proposed and implemented a novel/unique approach to solve this problem through the Textbook Companion (TBC). The Python TBC is a repository of solved examples from standard Engineering and Science textbooks coded using Python. More than 500 standard engineering textbooks now have TBCs available. The solved examples are available in the form of Jupyter notebooks. There are over 4000 such notebooks available. These notebooks can be explored online or downloaded for free. Students and faculty from various parts of the country have created this collection.

One may use the Python TBC (1) to understand the steps of examples (2) to do what if studies by changing parameters. Python TBC are available at

<https://tbc-python.fossee.in/completed-books/>, absolutely free of cost. Python TBC is also hosted on the cloud.

Yaksh is also developed by FOSSEE, it is a free and open-source online evaluation software. It allows teachers to create full blown courses with video and/or markdown text-based lessons but with *Problem-based learning* at its core, Yaksh focuses on letting teachers create real-time evaluated practice exercises and quizzes. With a large array of question types like Multiple choice question, Fill-in-the-blanks, Arrange options in correct order, Assignment uploads and programming questions available, Yaksh supports Python, C, C++, Java, Bash and Scilab programming languages. Yaksh is designed to be easily deployable, and can scale-up to accommodate 500+ users simultaneously. Faculty members can use Yaksh to evaluate their students.



4. Teaching faculty

- **Prof. Prabhu Ramchandran**, Co-Principal Investigator, FOSSEE project
- **Python Team members**, FOSSEE, IIT Bombay

5. Course Fee

Every participant has to pay Rs. 600 as the course fee to IIT Bombay at the time of online registration. On the day of the workshop, i.e., on **22 June 2019**, they have to pay Rs. 400 to the Remote Centre that they would be attending, to defray the cost of organising the workshop, lunch, and coffee/tea. Please note that the registration fee once paid is neither refundable nor adjustable under any circumstances.

6. Who should attend?

As this workshop is not subject-specific, industry professionals from any background are welcome.

7. Criteria for issuing Certificates

E-certificate will be provided to the participants after successful completion of the workshop and filling up the feedback form.

8. Duration and Venue

The workshop will be conducted on Saturday, **22 June 2019 from 9.30 AM to 6.00 PM** at Remote Centres of IIT Bombay. This workshop will be conducted through a blended mode, using both live video conferencing facility (A-VIEW) and hands-on sessions using Spoken Tutorials. A detailed workshop schedule will be available soon.

9. How to apply?

Enrollment will be strictly online, and no other mode of application will be entertained. **The last date of registration is 20 June 2019, 12.30 pm.** The URL for registration is: <http://www.it.iitb.ac.in/nmeict/announcements.html>

Register on the Spoken Tutorial Website:

1. Before the workshop, participants should register on <https://spoken-tutorial.org/>
2. Fill up the registration form and submit.
3. An email will be received.

4. The account should be activated by clicking the link in the email.
5. The Username and Password should be noted. This is an extremely important step.
6. One needs the above information to post questions on the forum, which will be explained at the time of the workshop.

Note

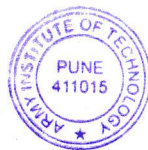
- Neither IIT Bombay nor the Remote Centre will bear the travel expense of the participating representatives. There shall also be no accommodation provided to the participants.
- All participants are required to bring **ear phones**, as they will have to listen to video tutorials. Without ear phones, the workshop will not at all be effective.
- Computers to practise Spoken Tutorials and to do Python programming will be available at the Remote Centres. But if they wish, participants can bring their own laptops with Python installed.

10. Prerequisite for the Python Workshop

The attending participants must see the **Introduction to Python video** before the workshop.

10. Address for communication

Dr. Kalpana Kannan
Project Coordinator, ESOS Project
Department of CSE, Kanwal Rekhi Building,
Indian Institute of Technology Bombay,
Mumbai - 400 076
Tel.: +91-22-2576 4989
Email: eoutreach@it.iitb.ac.in



[Signature]
Principal
Army Institute of Technology
Dighi Hillis, Pune - 411015

One day Workshop

on

Python

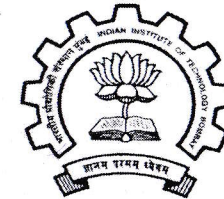
for Industry Professionals

22 June 2019

Supported by FOSSEE & Spoken Tutorial

At

IIT Bombay



Course Instructor:

Prof. Prabhu Ramchandran
Co-Principal Investigator, FOSSEE project

Project Coordinator

Prof. Kannan Moudgalya
Department of Chemical Engineering
Indian Institute of Technology Bombay
Powai, Mumbai 400076

AIT/1253/REC

Account Settlement

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

ONE DAY WORKSHOP ON PYTHON FOR TEACHERS AND INDUSTRY PROFESSIONAL

1. A one day 'Python' workshop is conducted by IIT Bombay, through our remote centre (AIT Pune, RC ID: 1407) on Saturday, 22nd June 2019.
2. Participants deposited Rs. 400/- per head at the time of registration. (Decided by IIT Bombay).
3. Total 35 participants participated. Collection of registration fee was $(35 \times 400 = 14,000/-)$. Registration details placed opposite.
4. Total expenditure done from the registration money only.
5. Against registration fees of event Rs 14,000/-, Expenditure details are as follow:

| Sr. no. | Particular | Expenditure (Rs.) | Details |
|---------|------------------|-------------------|----------|
| 1 | Breakfast, Lunch | 7,560/- | Flag 'A' |
| 2 | Refreshment | 100/- | |
| Total | | 7,660/- | |

6. Please accept the cheque of remaining amount Rs. $(14,000 - 7,660 = 6,340)$ for the same. (After approval, I will personally deposit cheque in account-section)
7. Put up for kind perusal and acceptance pl.

[Signature]
Renuka Bhandari
Coordinator

[Signature] 4/7/19
Dr. G R Patil
HoD E & TC

[Signature] 5/7/19
Principal

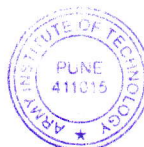
[Signature] 5/7/19
Jt. Director

[Signature] 08/7/19
Director

| |
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| Sign |
| S R No. |
| Dt. |
| Sign |

The remaining amount is transferred by NEFT. Detail is placed opposite.

[Signature] 21/7/19



[Signature]
Principal
Army Institute of Technology
Dighi Hillis, Pune - 411015

ONE DAY WORKSHOP ON PYTHON FOR TEACHERS

1. A one day 'Python' workshop will be conducted by IIT Bombay, through our remote center (AIT Pune, RC ID: 1407) on Saturday, 22nd June 2019 from 9.30 AM to 6.00 PM.
2. This workshop is organized under the 'Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMNMTT)', funded by the Ministry of Human Resource Development, Government of India.
3. Participants will learn 'Python' by listening to Spoken Tutorials and practicing them on 'Python' software.
4. There will be live interactions between the participants at the Remote Center and 'Python' experts at IIT Bombay.
5. Invitation letter and workshop brochure are placed opposite.
6. Total 20 registrations have been confirmed till date by IIT Bombay.
7. Participants will deposit Rs. 400/- per head at the time of registration. Lunch & refreshments are to be provided to the participants and the organizers. (approx. 25).
8. Expenditure of the all arrangements will be done through registration amount & account will be settled later.
9. Prof. Praveen Hore is appointed as a course coordinator for the workshop.
10. For the smooth conduction of workshop minimum 2Mbps stable bandwidth is required.
11. Generator backup is needed in case of power failure.
12. Put up for your perusal and approval please.

Rain
Remote Centre Coordinator
Mrs. Renuka Bhandari

DR 17/6/19
HOD, E & TC

| | |
|-------------|----------|
| MAIN OFFICE | |
| S.R. No. | 2240 |
| Dt. | 17/6/19 |
| Sign | <i>h</i> |

DR
Principal 17/6/19

DR
Jt. Director 18/6/19

Director 1. *Agm*

2. Put up detailed schedule once available.

DR
Coordinator 19/06/19

DR
18/6/19

1. Prof. Praveen Hore

2. MT Section

DR 20/6
3. *DR*
HOD



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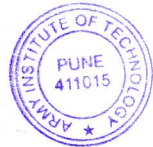
Python Workshop, IIT Bombay
Army Institute of Technology, Pune (RC ID: 1407)
Department of Electronics & Telecommunication **Date: 22nd June 2019**

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Python Workshop, IIT Bombay

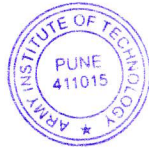
Army Institute of Technology, Pune (RC ID: 1407)


Department of Electronics & Telecommunication

Date: 22nd June 2019

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2000 - 1600
1400 paid




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Research centre id : 1407, AIT, Pune
Attendance

Python Workshop - 22nd June 2019

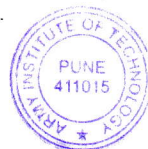
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| 206821 | Trupti Katte | truptikatte@gmail.com | Katte | Katte | Katte | Katte |

Present : 32

Absent : 01

Total : 33



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 Dighi Hillis, Pune - 411015

Research centre id: 1407

Participant
Present
Absent

Python Workshop - 22nd June 2019

Participant Info

| Id | Name | Email | S 1 | S 2 | S 3 |
|--------|-----------------|-------------------------|---------|---------|---------|
| 205851 | Shital Ghotekar | svghotekar@mitacs.ac.in | Ab | Ab | Ab |
| 205930 | Vidya Jadhav | jmvidya14@gmail.com | Present | Present | Present |

Shital Ghotekar - Absent
Vidya Jadhav - Present

Research centre: 1407

Attendance

Python Workshop - 22nd June 2019

Participant Info

| Id | Name | Email | S 1 | S 2 | S 3 | S 4 |
|--------|-------------------|--------------------------|---------|---------|---------|---------|
| 207701 | Nimish Kamerkar | nimishkamerkar@yahoo.com | Present | Present | Present | Present |
| 208297 | Surya Gagan Twari | ssgt1976@gmail.com | Present | Present | Present | Present |

Present : All

Absent : Nil



Principal
Army Institute of Technology
Dighi Hillis, Pune - 411015

ONE DAY WORKSHOP ON Linux FOR TEACHERS

1. A one day 'Linux' workshop will be conducted by IIT Bombay, through our remote center (AIT Pune, RC ID: 1407) on Friday, 23rd August 2019 from 9.30 AM to 6.00 PM.
2. This workshop is organized under the 'Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT)', funded by the Ministry of Human Resource Development, Government of India.
3. Participants will learn 'Linux' by listening to Spoken Tutorials and practicing them on 'Linux' software.
4. There will be live interactions between the participants at the Remote Center and 'Linux' experts at IIT Bombay.
5. Invitation letter and workshop brochure are placed opposite.
6. Total 16 registrations have been confirmed till date by IIT Bombay.
7. Participants will deposit Rs. 400/- per head at the time of registration. Lunch & refreshments to be provided to the participants and the organizers. (approx. 25).
8. Expenditure of the all arrangements will be done through registration amount & account will be settled later.
9. Prof. Shraddha Oza is appointed as a course coordinator for the workshop.
10. For the smooth conduction of workshop minimum 2Mbps stable bandwidth is required.
11. Generator backup is needed in case of power failure.
12. Put up for your perusal and approval please.

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Remote Centre Coordinator
Mrs. Renuka Bhandari

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21/8/19
HOD, E & TC

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Principal 21/8/19

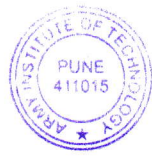
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Jt. Director 22/8/19

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Director

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Principal
Army Institute of Technology
Dighi Hillis, Pune - 411015

Attendance Sheet for Date : 2019-08-23

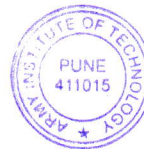
One day Workshop on Linux on 23 August 2019

August 23rd, 2019 to August 23rd, 2019

Under the National Mission on Education through ICT, MHRD, New Delhi

1407 - Army Institute Of Technology, Dighi Hills, Pune

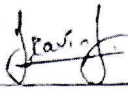
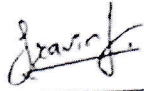
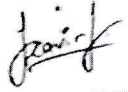
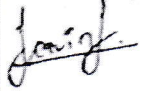
| Participant | | | Signature | | | |
|-------------|----------------|-----------------------|------------------|------------------|------------------|------------------|
| S No | Participant ID | Name | Session 1 | Session 2 | Session 3 | Session 4 |
| 1 | 209348 | Shilpa Devram Pawar | <i>Shilpa</i> | <i>Shilpa</i> | <i>Shilpa</i> | <i>Shilpa</i> |
| 2 | 209356 | Manisha Nilkanth | <i>Manisha</i> | <i>Manisha</i> | <i>Manisha</i> | <i>Manisha</i> |
| 3 | 209372 | Vidya Jadhav | <i>Vidya</i> | <i>Vidya</i> | <i>Vidya</i> | <i>Vidya</i> |
| 4 | 209433 | Rupali Bagate | <i>Rupali</i> | <i>Rupali</i> | <i>Rupali</i> | <i>Rupali</i> |
| 5 | 209434 | Snehal Marathe | <i>Snehal</i> | <i>Snehal</i> | <i>Snehal</i> | <i>Snehal</i> |
| 6 | 209436 | Geeta Patil | <i>Geeta</i> | <i>Geeta</i> | <i>Geeta</i> | <i>Geeta</i> |
| 7 | 209440 | Gajanan Walunekar | <i>Gajanan</i> | <i>Gajanan</i> | <i>Gajanan</i> | <i>Gajanan</i> |
| 8 | 209442 | Rajashree Suryawanshi | <i>Rajashree</i> | <i>Rajashree</i> | <i>Rajashree</i> | <i>Rajashree</i> |
| 9 | 209450 | Dhanashri Patil | <i>Dhanashri</i> | <i>Dhanashri</i> | <i>Dhanashri</i> | <i>Dhanashri</i> |
| 10 | 209477 | Sanjiv M Sansgiri | <i>Sanjiv</i> | <i>Sanjiv</i> | <i>Sanjiv</i> | <i>Sanjiv</i> |
| 11 | 209585 | Pragati Rana | <i>Pragati</i> | <i>Pragati</i> | <i>Pragati</i> | <i>Pragati</i> |
| 12 | 209702 | Rahul Desai | <i>Rahul</i> | <i>Rahul</i> | <i>Rahul</i> | <i>Rahul</i> |
| 13 | 209703 | Baliram Deshmukh | <i>Baliram</i> | <i>Baliram</i> | <i>Baliram</i> | <i>Baliram</i> |
| 14 | 210444 | Vinaya Tapkir | <i>Vinaya</i> | <i>Vinaya</i> | <i>Vinaya</i> | <i>Vinaya</i> |

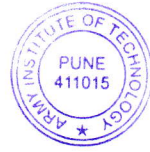



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Principal
Army Institute of Technology
Dighi Hills, Pune - 411015

Participant

Signature

| Participant ID | Name | Signature | | | |
|----------------|----------------|---|--|---|---|
| | | Session 1 | Session 2 | Session 3 | Session 4 |
| 212459 | Pravin Sangale |  |  |  |  |
| 212456 | Neha Shinde | <u>nehha</u> | <u>nehha</u> | <u>nehha</u> | <u>nehha</u> |



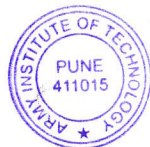

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Dighi Hillis, Pune - 411015

Linux Workshop, IIT Bomba
Army Institute of Technology, Pune (RC ID: 1407)
Department of Electronics & Telecommunication

Date: 23rd Aug 2019

Registration

| Sr. No. | Enroll No. | Name | Phone No. | E-mail | Designation | Institute | Signature |
|---------|------------|-----------------------|------------|-----------------------------|----------------------|--|---|
| 1 | 210444 | Vinaya Tapkir | 8796814632 | vstapkir@etx.mitaoe. ac.in | Assistant Professor | Maharashtra Academy of Engineers, Pune |  |
| 2 | 209703 | Baliram Deshmukh | 9850205734 | baliramdeshmukh87@gmail.com | System Administrator | Army Institute Of Technology |  |
| 3 | 209702 | Rahul Desai | 9403357088 | rahuldesai@aitpune.edu.in | Assistant Professor | Army Institute Of Technology |  |
| 4 | 209585 | Pragati Rana | 8878636261 | pragati.rana@gmail.com | Assistant Professor | Army Institute Of Technology |  |
| 5 | 209477 | Sanjiv M Sansgiri | 9881399777 | drsanjivmsansgiri@gmail.com | Professor | Army Institute Of Technology |  |
| 6 | 209450 | Dhanashri Patil | 9403565462 | dpdhanashripatil@gmail.com | Assistant Professor | Army Institute Of Technology |  |
| 7 | 209442 | Rajashree Suryawanshi | 9423913847 | raj_patil123@rediffmail.com | Assistant Professor | Army Institute Of Technology |  |
| 8 | 209440 | Gajanan Walunekar | 9822148115 | gwalunekar@aitpune.edu.in | Assistant Professor | Army Institute Of Technology |  |
| 9 | 209436 | Geeta Patil | 9158368567 | geetapatil34@gmail.com | Assistant Professor | Army Institute Of Technology |  |
| 10 | 209434 | Snehal Marathe | 9604225393 | snehalmarathe@gmail.com | Assistant Professor | Army Institute Of Technology |  |
| 11 | 209433 | Rupali Bagate | 9552936611 | rupali.bagate@gmail.com | Assistant Professor | Army Institute Of Technology |  |
| 12 | 209372 | Vidya Jadhav | 9325640338 | jmvidya14@gmail.com | Technical Assistant | Army Institute Of Technology |  |
| 13 | 209356 | Manisha Nilkanth | 9423372290 | nilkanthmanisham@gmail.com | Assistant Professor | Army Institute Of Technology |  |
| 14 | 209348 | Shilpa Devram Pawar | 9975792033 | pawarshilpa123@gmail.com | Assistant Professor | Army Institute Of Technology |  |



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Army Institute of Technology
Dighi Hillis, Pune - 411015

ONE DAY WORKSHOP ON 'R' programming FOR TEACHERS

1. A one day 'R' workshop will be conducted by IIT Bombay, through our remote center (AIT Pune, RC ID: 1407) on Saturday, 9th Nov.2019 from 9.30 AM to 6.00 PM
2. This workshop is organized under the 'Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT)', funded by the Ministry of Human Resource Development, Government of India. (details are placed opposite)
3. Participants will learn 'R' by listening to Spoken Tutorials and practicing them on software.
4. There will be live interactions between the participants at the Remote Center with experts at IIT Bombay.
5. Invitation letter and workshop brochure are placed opposite.
6. Expenditure of the all arrangements will be done through registration amount & account will be settled later.
7. Dr. G R Patil, HOD E &TC is a course coordinator for the workshop.
8. For the smooth conduct of workshop minimum 2Mbps stable bandwidth is required.
9. Generator backup is needed in case of power failure.
10. Following staffs are coming for the workshop arrangements.
 Dr. G. R. Patil
 Dr (Mrs) Harjeet kaur
 Ms Rajashree Chakraborty
 Mr. Ashok Katole, Mr. S.K Ramesh
11. A compensatory off may be given to all concern staff.
12. Put up for your perusal and approval please.

[Signature]

HOD, E & TC

Remote Centre Coordinator

Dr. Renuka Bhandari

Dr. Harjeet Kaur

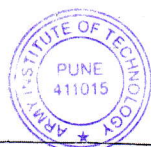
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Principal 06/11/19

Jt. Director: on Leave.

Director

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for ME students.
if incomm



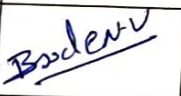

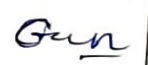

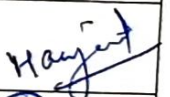

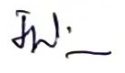
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Army Institute of Technology
Dighi Hillis, Pune - 411015

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| SR No. | 3917 |
| Dt. | 07/11 |
| Sign | <i>[Signature]</i> |

Registration

| S. No | Name | Mobile Number | email | Designation | Institute | Signature |
|-------|-----------------------|---------------|-------------------------------|---------------------|----------------------------------|---|
| 1 | KAVITA SHINDE | 9823445546 | kpshinde@mitacsc.ac.in | Assistant professor | MIT ACSC, Alandi |  |
| 2 | SWAPNA KULKARNI | 8793051105 | SSkulkarni@mitacsc.ac.in | Asst. Professor | MIT ACSC Alandi |  |
| 3 | NUTAN V. BANSODE | 9764176239 | nvbansode@entc.mae.pune.ac.in | Asst. Professor | MIT AOE, Alandi |  |
| 4 | VAISHALI A. KATKAR | 9960220865 | vakatkar@ente.mae.pune.ac.in | Asst. prof. | MITAOE, Alandi |  |
| 5 | Prof. Umakant L. Ture | 7709145349 | Umakant.ture@mmit.edu.in | Asst. Professor | mmIT, Lonjer |  |
| 6 | prof. Sangeti Borde | 9822055513 | smborde@mitacsc.ac.in | Assistant professor | MITACSC, Alandi |  |
| 7 | Hayjint Kaur | 7798777110 | mail2hkaur@gmail.com | Asst. Prof. | AIT, Pune |  |
| 8 | Manisha Nilkanth | 9423372290 | mnilkanth@aitpune.edu.in | Assistant Professor | AIT, Pune |  |
| 9 | Prof. Mahesh Lonare | 9423166105 | mblonare@gmail.com | Asst. Prof. | AIT, Pune | ABSENT |
| 10 | Jyoti Sangogi | 8983509989 | Jyoti.sangogi@sinhgad.edu | Asst. Prof. | RMD Sinhgad school of Engg. Pune |  |



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Dighi Hillis, Pune - 411015

R Workshop, IIT Bombay
Army Institute of Technology, Pune (RC ID: 1407)
Department of Electronics & Telecommunication

Date: 9th Nov 2019

Attendance Report
Afternoon Session (3,4)

| Sr. No. | Name | Sign |
|---------|------------------------|---------------|
| 1. | Jyoti Saugogi | JW |
| 2. | Nutan V. Barwode | NB |
| 3. | Vaishali A. Kattar | VK |
| 4. | Kavita Shinde | KS |
| 5. | Swapna Kulkarni | SK |
| 6. | Sangeeta Borde | SB |
| 7. | Nayant Kaul | NK |
| 8. | Prof. Umakant L. Turx | UT |
| 9. | Prof. Manisha Nilkanth | MN |
| 10. | Prof. Mahesh Lonare | <u>ABSENT</u> |



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Dighi Hillis, Pune - 411015

Dr. G. R. Patil
Course Coordinator

Date: 9th Nov 2019

Attendance Report

Morning Session (1, 2)

| Sr. No. | Name | Sign |
|---------|-------------------------------|-----------------|
| 1. | prof. sangeeti mahesh Borde | <u>Sangeeti</u> |
| 2. | prof. Kavita Prashant Shinde | <u>Kavita</u> |
| 3. | Mrs. swapna shrikant kulkaeni | <u>Sw</u> |
| 4. | Mrs. Jyoti Sangogi | <u>Jyoti</u> |
| 5. | Mrs. Vaishali Katkar | <u>VK</u> |
| 6. | Nutan V. Bansode | <u>Bansode</u> |
| 7. | Hanjot Kaur | <u>Hanjot</u> |
| 8. | Prof. Umakant L. Tupe | <u>Tupe</u> |
| 9. | Prof. Manisha Nikam | <u>Manisha</u> |
| 10. | Ms. Mahesh honar | <u>ABSENT</u> |



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Dr. G. R. Patil
Course Coordinator



Kannan M. Moudgalya, Ph.D
Erach and Meheroo Mehta
Advanced Education Technology
Chair Professor
Department of Chemical Engineering
Indian Institute of Technology Bombay
Powai, Mumbai 400 076, India.



कण्णन मणि मौद्गल्या
इरच तथा मेहरो महेता
प्रगत शिक्षा प्रौद्योगिकी
सीटासीन प्राध्यापक
रासायनिक अभियांत्रिकी विभाग
भारतीय प्रौद्योगिकी संस्थान मुंबई
पवई, मुंबई 400 076, भारत.



14 October 2019

Dear Madam/Sir,

Greetings from IIT Bombay!

We are glad to announce a **One Day R Programming Language Workshop for Teachers on 9 Nov. 2019**. This is being organised by the Teaching Learning Centre (ICT) at IIT Bombay, funded by the *Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT)*, an initiative of the Ministry of Human Resource Development, Government of India. I am writing this mail to invite you to attend this workshop at a Remote Centre convenient to you.

This workshop belongs to a series of workshops that we are conducting on AI/ML. The first in the series is a Python workshop, which we already conducted. The second in the series is the R workshop that we are proposing now for 9 Nov. 2019. Soon after the workshop, we will conduct an online test, and those who do well in it will get invited for a workshop on AI/ML that we will conduct subsequently. Thus, Python/R workshop is a prerequisite to the AI/ML workshop that we plan to conduct.

Details of the current programme are given below:

Workshop Name: One Day R workshop for Teachers

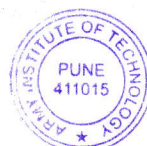
Who can attend? Teachers (both college and school), and Research Scholars

Date: Saturday, 09 November 2019

Venue: About 200 Remote Centres of ours, a list of which is available through [this link](#).

How the workshop will be conducted:

It will be a one day workshop, on **09 November 2019**. We will interact live through A-VIEW at the beginning of the day. After that, one will learn R language using Spoken tutorials, guided by the Course Coordinator in the Remote Centre one attends. The efficacy of this method is explained in this TEDx Talk: <https://tinyurl.com/y26na736>. We will answer questions of participants, if any, using a Forum, especially designed for distributed learning. In the evening, we shall connect through A-VIEW again, carry out discussions



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and end the programme. There will be about 4 to 5 hours available for R language training and two hours for interactions. A detailed schedule of the programme will be made available later.

All interested have to pay **Rs. 100** each as a course fee to IIT Bombay at the time of registration, and **Rs. 400** each to the Remote Centre, directly at the time of the workshop, using which, they will provide lunch and coffee/tea/snacks. Balance amount, if any, will be used by the Remote Centre to pay for the maintenance of their infrastructure.

Procedure to participate in the workshop:

To participate in this workshop, one has to register at <https://www.it.iitb.ac.in/nmeict/> and follow the instructions. The registration portal will open on **14 October 2019 2.00 pm** and will close on **08 November 2019, at 12:30 pm**. We encourage you to register early, as seats may be limited in the Remote Centre of your choice.

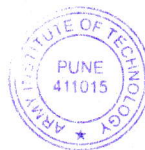
Please feel free to bring this information to the attention of your colleagues and friends, anywhere in India, and encourage them to join. Please note that this workshop will be useful to teachers of schools as well, and hence they are most welcome to attend it.


We look forward to your enthusiastic participation in this initiative. Details of the Online Test will be provided later.

Regards,



Prof. Kannan Moudgalya
PI, TLC (ICT), PMMMMNMTT




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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 first FDP titled "Python programming with industry perspective" is scheduled from 2nd Dec 2019 to 6th 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 Shraddha Oza
 Dr. Harjeet Kaur
 Ms. Manisha Nilkanth
 Coordinators, FDP

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 21/11/19
 Dr. G. R. Patil
 HOD, E&Tc

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 Principal
 21/11/19

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 Jt. Director
 21/11/19

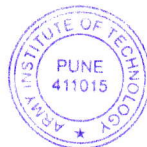
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 Director
 21/11/19

[Signature]
 PI confirm all arrangements can be done on demand.

IITD & ETC

| | |
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| S No | 4046 |
| Dt | 21/11 |
| Sign | DH |



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 Principal
 Army Institute of Technology
 Dighi Hillis, Pune - 411015



सत्यमेव जयते

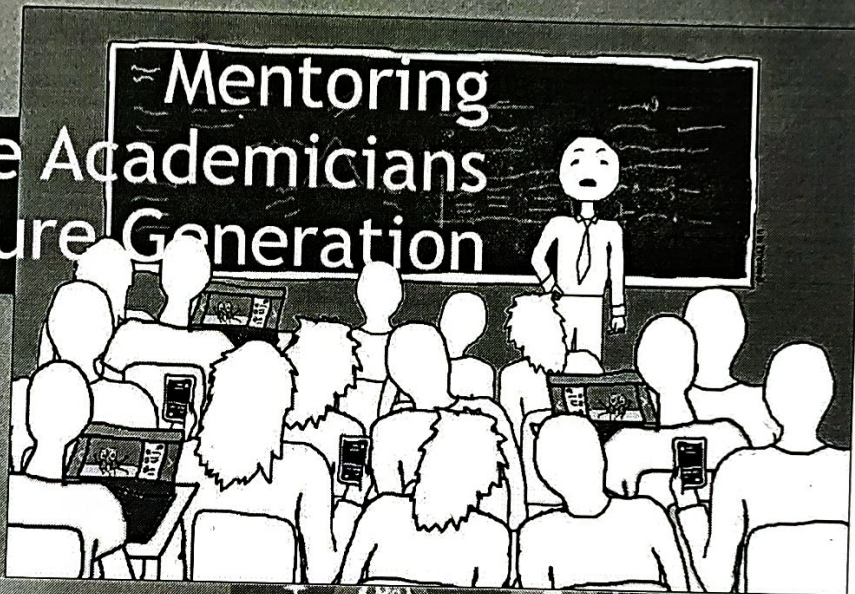


Ministry of Electronics & Information Technology



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.



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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 |
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| 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 |
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| 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. 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 |



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Participant List for Faculty

College Name : Army Institute of Technology, Pune

FDP Name with Date : "Python Programming with Industry Perspective" (02/12/2019 - 06/12/2019)

| SNo | Name | Faculty/ Student/ Others | Male/Female | Category (SC/ST/ OBC/UR) | Institution | Mobile Number |
|-----|----------------------------|--------------------------------|-------------|--------------------------------|---|------------------|
| 1 | Ms. Shilpa Pawar | Faculty | Female | SC | Army Institute of Technology, Pune | 9975792033 |
| 2 | Ms. Shubhada Bhalerao | Faculty | Female | SC | Army Institute of Technology, Pune | 7387491120 |
| 3 | Ms. Vaishali Ingale | Faculty | Female | SC | Army Institute of Technology, Pune | 9371165218 |
| 4 | Mrs. Geeta Patil | Faculty | Female | UR | Army Institute of Technology, Pune | 9158368567 |
| 5 | Mrs. Asha Sathe | Faculty | Female | UR | Army Institute of Technology, Pune | 7888034146 |
| 6 | Ms. Dhanashree Patil | Faculty | Female | UR | Army Institute of Technology, Pune | 9403565462 |
| 7 | Ms. Rupali Bagate | Faculty | Female | UR | Army Institute of Technology, Pune | 9552936611 |
| 8 | Mrs. Aparna S Joshi | Faculty | Female | UR | Army Institute of Technology, Pune | 9763853569 |
| 9 | Ms. Y T Hambir | Faculty | Female | UR | Army Institute of Technology, Pune | 8411971193 |
| 10 | Dr. S D Oza | Faculty | Female | UR | Army Institute of Technology, Pune | 9881204415 |
| 11 | Dr. Harjeet Kaur | Faculty | Female | UR | Army Institute of Technology, Pune | 7798777110 |
| 12 | Ms. Manisha Nilkanth | Faculty | Female | UR | Army Institute of Technology, Pune | 9423372290 |
| 13 | Dr. Renuka Bhandari | Faculty | Female | UR | Army Institute of Technology, Pune | 8956678234 |
| 14 | Mrs Sharayu Lokhande | Faculty | Female | UR | Army Institute of Technology, Pune | 8411971185 |
| 15 | Dr Sadhana A Sawant | Faculty | Female | UR | SKNCOE, PUNE | 9822840814 |
| 16 | Dr Amruta Ashish Kadam | Faculty | Female | UR | SKNCOE, PUNE | 9923200068 |
| 17 | Ms Namrata B Patil | Faculty | Female | UR | SKNCOE, PUNE | 8830423919 |
| 18 | Ms Varsha Sharad Mulik | Faculty | Female | UR | SKNCOE, PUNE | 9850990065 |
| 19 | Dr. Preeti Purohit | Faculty | Female | UR | Army Institute of Technology, Pune | 9145231814 |
| 20 | Ms. Snehal Marathe | Faculty | Female | UR | Army Institute of Technology, Pune | 9604225393 |
| 21 | Ms. Sita Yadav | Faculty | Female | UR | Army Institute of Technology, Pune | 9158362868 |
| 22 | Dr. N K Bansode | Faculty | Male | SC | Army Institute of Technology, Pune | 9822666427 |
| 23 | Mr. R D Kamble | Faculty | Male | SC | SKNCOE, PUNE | 9881475484 |
| 24 | Mr Rajendraprasad A Pagare | Faculty | Male | SC | SKNCOE, PUNE | 7722034177 |
| 25 | Mr. Kuldeep Hule | Faculty | Male | UR | Army Institute of Technology, Pune | 9421967989 |
| 26 | Dr. Rahul Desai | Faculty | Male | UR | Army Institute of Technology, Pune | 9403357088 |
| 27 | Mr. Vitthal Hivrale | Faculty | Male | UR | Army Institute of Technology, Pune | 9665582369 |
| 28 | Mr. Yuvraj Gholap | Faculty | Male | UR | Army Institute of Technology, Pune | 9404751535 |
| 29 | Dr. S R Dhore | Faculty | Male | UR | Army Institute of Technology, Pune | 9890809251 |
| 30 | Mr. R K Suryawanshi | Faculty | Male | UR | Trinity College of Engineering and Research | 9579398378 |
| 31 | Mr D G Auradkar | Faculty | Male | UR | Army Institute of Technology, Pune | 9422300730 |
| 32 | Mr Sachin Tanwade | Faculty | Male | UR | Army Institute of Technology, Pune | 9960213434 |



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| | | | | | | |
|----|----------------------------|---------|------|----|------------------------------------|------------|
| 33 | Mr. J B Jawale | Faculty | Male | UR | Army Institute of Technology, Pune | 9923565542 |
| 34 | Mr Vijaykumar Karra | Faculty | Male | UR | Army Institute of Technology, Pune | 9823256569 |
| 35 | Mr Mahesh B Alanadkar | Faculty | Male | UR | BKNCOE, PUNE | 9329870761 |
| 36 | Mr Bagar Prabhakar Bhilare | Faculty | Male | UR | BKNCOE, PUNE | 9552592783 |
| 37 | Mr Raviraj B Ourav | Faculty | Male | UR | Army Institute of Technology, Pune | 7350057110 |
| 38 | Mr Anup Kadam | Faculty | Male | UR | Army Institute of Technology, Pune | 9922996848 |
| 39 | Mr Sanjay Galkwad | Faculty | Male | UR | Army Institute of Technology, Pune | 8007655827 |
| 40 | Mr P R Sonwane | Faculty | Male | UR | Army Institute of Technology, Pune | 9420061004 |

Partiolpant List for Other

| BNo | Name | Faculty/ Student/ Others | Male/Female | Category (SC/ST/ OBC/UR) | Institution | Mobile Number |
|-----|----------------------|--------------------------------|-------------|--------------------------------|------------------------------------|------------------|
| 1 | Ms. Vidya Jadhav | Other | Female | UR | Army Institute of Technology, Pune | 9325640338 |
| 2 | Mr. Baliram Deshmukh | Other | Male | UR | Army Institute of Technology, Pune | 9850205734 |
| 3 | Ms Neha Shinde | Other | Female | UR | Army Institute of Technology, Pune | 9552055400 |
| 4 | Ms Mohini Shendge | Other | Female | UR | Army Institute of Technology, Pune | 9604488466 |
| 5 | Ms Pranoti Magdum | Other | Female | UR | Army Institute of Technology, Pune | 9130629959 |
| 6 | Mr.Nitesh Sukhadeve | Other | Male | UR | Army Institute of Technology, Pune | 8149336002 |

DR
(Dr. G. R. Patil)
Local Co-ordinator





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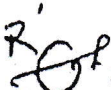
Department of Electronics and Telecommunication

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.

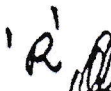
Dr. Surekha KS 
 Prof. Avinash patil 
 Coordinators
Avinash
 10/12/19


 HOD, E&Tc

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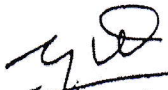

 22.12.19

Jt. Director



 11/12/19

Director

OK. MWD.


 19/12/19

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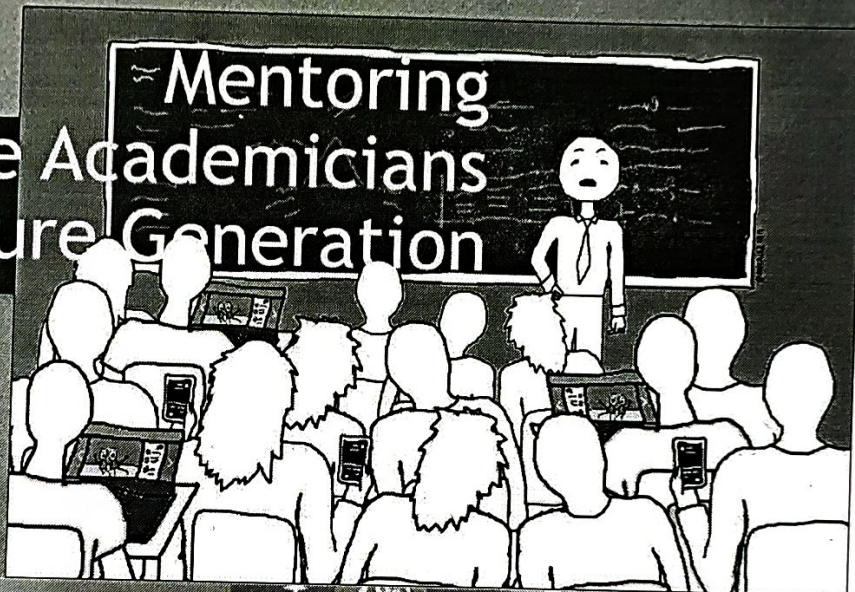


Ministry of Electronics & Information Technology

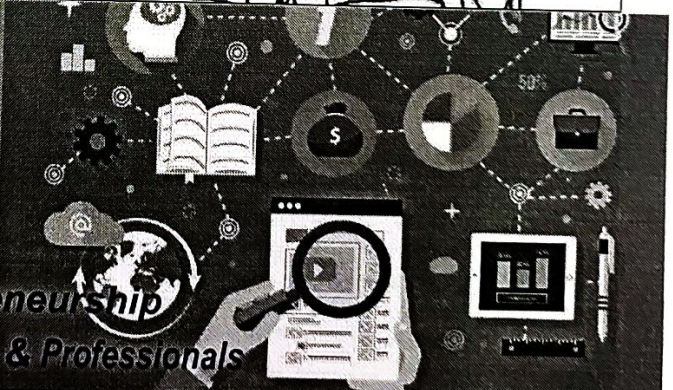


Government of India Initiative for Employability Enhancement

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.

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



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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 |
|-------|---|---|-------------------------------------|----------------------------|-------------------------------------|
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| 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:

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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 |
|-----------------|---|
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| 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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Dighi Hillis, Pune - 411015

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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Dighi Hillis, Pune - 411015

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 |

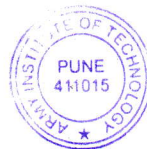


Participant List

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 |

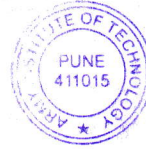


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Dighi Hillis, Pune - 411015

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 |



Army Institute of Technology
Dy. Registrar, Pune - 411015

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.
2. The FDP titled "ICT Tools for Teaching Learning Process and Institutes" is scheduled from 13th Jan 2020 to 17th Jan 2020. 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. The FDP is useful from the point of view of NBA.
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 *[Signature]*
 Prof. Avinash patil *[Signature]*
 Coordinators

[Signature]
 HOD, E&Tc

[Signature]
 26/12/19
 Principal

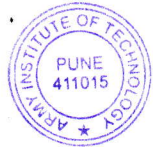
Useful for NBA ✓

[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.



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

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| SR No | 4281 |
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| Principal Office |
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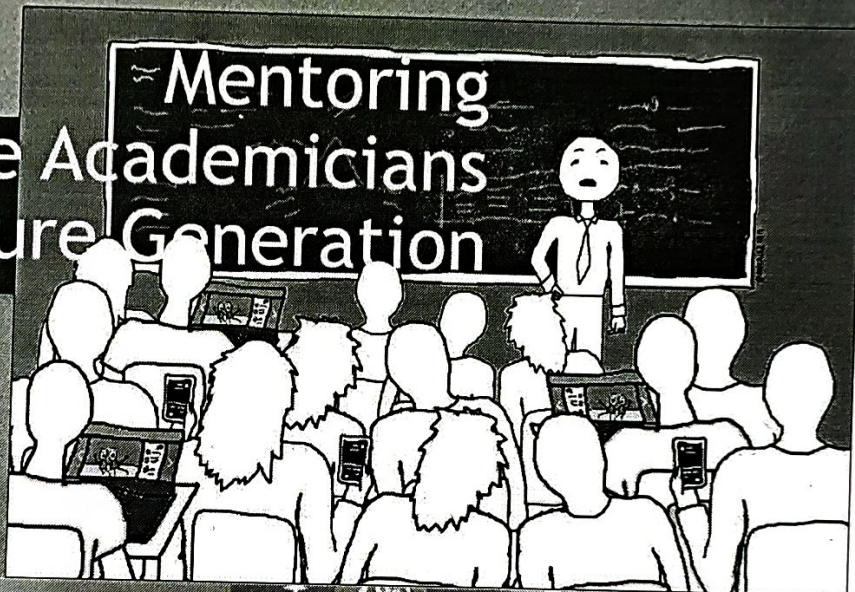


Ministry of Electronics & Information Technology

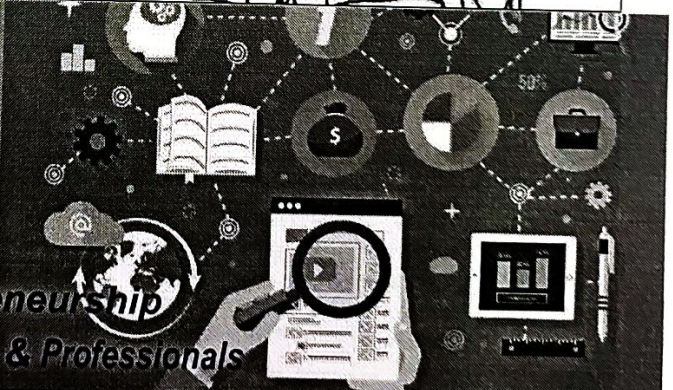


Government of India Initiative for Employability Enhancement

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.



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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.
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2 – 6 Dec 2019

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Experts from host institutes- (ii) Dr. E. S. Pilli,

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| 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. |
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| 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

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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 |
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| 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. |

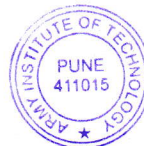
| Principal Coordinator - Academy | Co-Principal Coordinator - Academy | Participating Academies and Local Coordinator Details |
|---|--|---|
| Prof. Aparajita Ojha aojha@iiitdmj.ac.in M: 9425800334 IIITDM Jabalpur | Prof. R. B. V. Subramanyam eict.nitw@gmail.com M: 091210 16547 NIT Warangal | IIITDM 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 |




[Signature]
 Principal
 Army Institute of Technology
 Dighi Hillis, Pune - 411015

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)

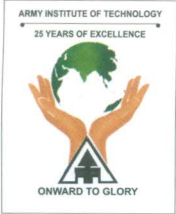
| SNo | Name | Faculty/ Student/ Others | Male/Female | Category (SC/ST/ OBC/UR) | Institution | Mobile No |
|-----|-------------------|--------------------------------|-------------|--------------------------------|------------------------------------|------------|
| 28 | Dr A V Kulkarni | Faculty | Female | UR | DIT Pimpri , Pune | 9850896653 |
| 29 | Dr P Malathi | 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 |




Principal
Army Institute of Technology
Dighi Hillis, Pune - 411015



ONWARD TO GLORY



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

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

Exch : (020) 27157612, (020) 27157534 Fax : Extn : (020) 27157534

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

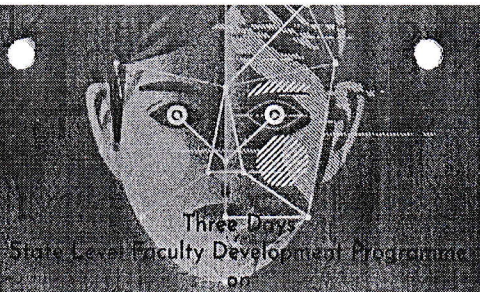



Principal
Army Institute of Technology
Dighi Hillis, Pune - 411015

REGISTRATION DETAILS

Academician & Research Scholar - Rs. 1000 /-
 Participants from Industry - Rs. 1500 /-

Registration link : <http://tinyurl.com/aitfdp2019>



Three Days
 State Level Faculty Development Programme
 on



Sponsored

Three Days
 State Level Faculty Development Programme
 on

Last Date of Registration : 1st December 2019

Mathematical Modelling
 Approach towards
 Data Science

Mathematical Modelling
 Approach towards
 Data Science

ACCOMODATION

Accomodation will be provided for limited number of outstation participants with reasonable charges.

In Association with



INSTITUTION'S
 INNOVATION
 COUNCIL
 (Ministry of HRD initiative)

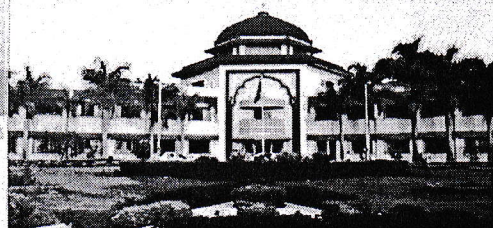
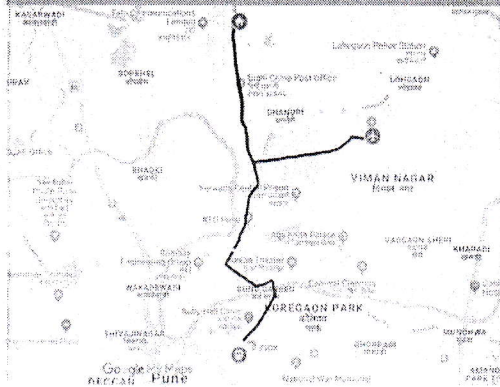


Under QIP of
 Savitribai Phule Pune University
 11th-13th December 2019

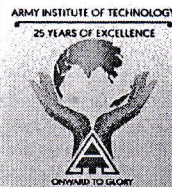
CONTACT DETAILS

Dr. Rahul Desai,
 Information Technology
 Mobile No. - 9403357088, 9284234918
 mail - rahuldesai@aitpune.edu.in
desaimrahul@gmail.com

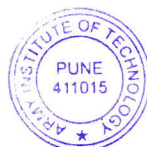
How to Reach?



Organized by



Department of
 Information Technology
 Army Institute of Technology
 Dighi Hills, Pune - 411015
 (NAAC 'A' Grade & NBA Accredited)



Principal
 Army Institute of Technology
 Dighi Hillis, Pune - 411015

THE PROGRAMME

In this FDP, Data science opportunities & techniques will be discussed along with mathematical approach. Data science actually uses mathematical model to model the business circumstance, environment etc. Therefore a solid understanding of mathematical machinery behind cool algorithm will give you an edge among your peers.

ABOUT AWES

Army Welfare Education Society is an Indian Army governed organisation which manages and ensures good quality and affordable education facilities to Indian Army wards. Established in 1983, AWES has grown and now running over 128 Army Public Schools and 239 Army Pre-primary schools and 11 Institutions of higher education across India.

ABOUT AIT

AIT was founded in 1994, as a result of the vision, and untiring efforts of Late Gen B.C. Joshi PVSM, AVSM, ADC for the children of all ranks of the Indian Army. AIT has completed 25 years of excellence and is celebrating this year as its Silver Jubilee year. The beautiful campus, serene ambience and architectural splendor, state of the art infrastructure, all provide vital ingredients for a delectable academic environment for development of total quality engineers. AIT is ranked at No. 91 by NIRF in 2019 survey. AIT has won the best college award in technical category for year 2016-17 by SPPU. AIT runs UG courses in Comp. Engg., IT, Mech, E&TC and PG course in Machine Design. All courses are affiliated to SPPU.

ABOUT DEPARTMENT

The Department of Information Technology was established in the year 2001 with an intake of 60 students. The vision of the department is to become a center of excellence and to produce high quality, creative and ethical engineers and technologists, contributing effectively to modern information society. The department is a pioneer in establishing CSI and NPTEL students chapter as well as IEEE student branch.

WHO CAN ATTEND

Research scholars, industry personnel and faculty members from various Engineering Colleges from all departments are eligible to attend the programme.

SESSIONS

1. Data Science and its opportunities
2. Basics of Machine Learning.
3. Hand on session using python.
4. Neural Networks & Deep Learning Frameworks.
5. Application of Deep Neural Network in NLP.
6. Concept and application of CNN.
7. Recurrent Neural Networks (RNNs), LSTMs and Language models.
8. Case Studies
9. Unboxing the Black box Rise of Explainable AI.

RESOURCE PERSONS

1. Dr. Bhushan Garware,
Data Scientist, Persistent Systems Ltd.
2. Mr. Sagar Sabale,
Data Scientist, Fractal Analytics

CHIEF PATRON

Brig Abhay A Bhat (Retd), Director, AIT

PATRON

Dr. B P Patil, Principal, AIT

CONVENER

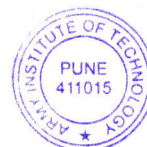
Dr. Sangeeta Jadhav, HOD(IT)

COORDINATORS

Prof. Rupali Amit Bagate
Prof. Aparna Shashikant Joshi

EXECUTIVE COMMITTEE MEMBERS

Dr. Ashwini Sapkal
Prof. Geeta Patil
Prof. Vaishali Ingale
Prof. Gajanan M Walunjkar
Prof. Yuvraj Gholap
Prof. Nilima Walde
Prof. Sandeep Samleti



[Signature]
Principal
Army Institute of Technology
Dighi Hillis, Pune - 411015

Three Days State Level Faculty Development Program on “Mathematical Modeling Approach towards Data Science”

14th Dec 2019

Information Technology department of Army Institute of Technology is organizing the Three Days State level Faculty Development Program on “Mathematical Modeling Approach towards Data Science” at its campus in Pune from 11th Dec 2019 -13th Dec 2019 under Quality Improvement Program of SPPU.

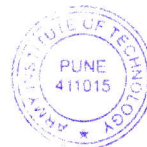
In this FDP, Data science opportunities and Techniques will be discussed along with mathematical approach. Data science usually mathematical model to model business circumstance, environment etc. Research Scholars, Industry personnel and Faculty members from various engineering colleges from all departments are invited to attend.


The resource persons for the various sessions were as follows:

- 1) Mr. Rakesh Nakod
- 2) Mr. Dwijay Bane
- 3) Dr. Swati Shinde

The various Sessions conducted in FDP are as follows:

- 1) Data Science and its opportunities
- 2) Basics of Machine learning
- 3) Hand on session using python
- 4) Neural networks & deep learning frameworks
- 5) Application of deep neural network in NLP
- 6) Concepts and application of CNN
- 7) Recurrent neural networks (RNNS), LSTMs and language models
- 8) Case studies
- 9) Unboxing the black box rise of explainable AI



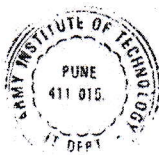

Principal
Army Institute of Technology
Dighi Hillis, Pune - 411015

Army Institute of Technology
Participants' Attendance List (Within Maharashtra)

| Sr. No. | Name of the Participant | Address (College & University Name) | Contact No. / Mobile No. & E-mail | Signature | |
|---------|-------------------------|-------------------------------------|--|------------------------|------------------------|
| | | | | 1 st Day | 2 nd Day |
| 1 | Smita Kulkarni | MAE Pune | 9423582133 sskulkarni@ente.maepune.ac.in | <i>Smita</i> | <i>Smita</i> |
| 2 | Dipti Pandit | VHIT Pune | 9850586097 dppandit@gmail.com | <i>Dipti Pandit</i> | <i>Dipti Pandit</i> |
| 3 | Prerna Rawat | Genba Sopanrao Moze COE | 7447480828 omprerna28@gmail.com | <i>Prerna Rawat</i> | <i>Prerna Rawat</i> |
| 4 | Dhanshree Kulkarni | DIT | 9860196499 Dhanshree2016@gmail.com | <i>Dhanshree</i> | <i>Dhanshree</i> |
| 5 | Savita S Jadhav | Dr. D Y Patil Pimpri Pune | 9860450966 Savitasjadhav28@gmail.com | <i>S.J.</i> | <i>S.J.</i> |
| 6 | Dhanshree Patil | AIT Pune | 9403565462 dhanshreepatil@aitpune.edu.in | <i>Dhanshree Patil</i> | <i>Dhanshree Patil</i> |
| 7 | Asha Sathe | AIT Pune | 7888034146 apsathe@yahoo.com | <i>Ashathe</i> | <i>Ashathe</i> |
| 8 | Dr. Rahul Desai | AIT Pune | 9884234918 desaimrahul@gmail.com | <i>R.D.S.</i> | <i>R.D.S.</i> |
| 9 | Dr. Sangeeta Jadhav | AIT Pune | 9923911211 hodit@aitpune.edu.in | <i>S.Jadhav</i> | <i>S.Jadhav</i> |
| 10 | Dr. Ashwini Sapkal | AIT Pune | 7021077014 asapkal@aitpune.edu.in | <i>A.Sapkal</i> | <i>A.Sapkal</i> |
| 11 | Vaishali Ingale | AIT Pune | 9371165218 vingale@aitpune.edu.in | <i>V.Ingale</i> | <i>V.Ingale</i> |
| 12 | Yuvraj Gholep | AIT Pune | 9404751535 ygholep@aitpune.edu.in | <i>Y.Gholep</i> | <i>Y.Gholep</i> |

S.Jadhav
Dr. Sangeeta Jadhav
Name & Sign. of Co-ordinator

HOD
Department of Information Technology
Army Institute of Technology
Dighi Hills, Pune - 411015.



Name, Signature & Seal of Principal/Director

[Signature]
Principal
Army Institute of Technology
Dighi Hillis, Pune - 411015



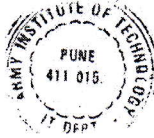
[Signature]
Principal
Army Institute of Technology
Dighi Hillis, Pune - 411015

Army Institute of Technology
Participants' Attendance List (Within Maharashtra)

| Sr. No. | Name of the Participant | Address (College & University Name) | Contact No. / Mobile No. & E-mail | Signature | |
|---------|-------------------------|-------------------------------------|--|---------------------|---------------------|
| | | | | 1 st Day | 2 nd Day |
| 13 | Kopal Gangrade | Genba Sopanrao Moze COE | 8269947432 Kopal.gangrade@yahoo.com | <i>Gangrade</i> | <i>Gangrade</i> |
| 14 | Nilakshi Rajule | Dr. D Y institute of technology | 3390413138 Nilakshi.bagdure@gmail.com | <i>NRajule</i> | <i>NRajule</i> |
| 15 | A K Singh | AIT Pune | 8805157906 aksingh@aitpune.edu.in | <i>A.K.Singh</i> | <i>A.K.Singh</i> |
| 16 | Pragati Rana | AIT Pune | 8878636261 pragatirana@aitpune.edu.in | <i>Rana</i> | <i>Rana</i> |
| 17 | B B Deshmukh | AIT Pune | 9850205734 Baliramdeshmukh87@gmail.com | <i>BDeshmukh</i> | <i>BDeshmukh</i> |
| 18 | Pranita Bhosale | DYP COE Pimpri | 9960599324 Pranita.bhosale29@gmail.com | <i>Bhosale</i> | <i>Bhosale</i> |

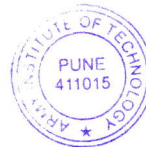
S. Jadhav
Dr. Sangeta Jadhav
Name & Sign. of Co-ordinator

Department of Information Technology
Army Institute of Technology
Dighi Hills, Pune - 411015.



Name, Signature & Seal of Principal/Director

Principal
Army Institute of Technology
Dighi Hillis, Pune - 411015.



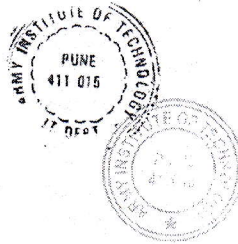
P.J.
Principal
Army Institute of Technology
Dighi Hillis, Pune - 411015

Army Institute of Technology

Participants' Attendance List (Outside Maharashtra / International)

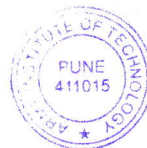
| Sr. No. | Name of the Participant | Address (College & University Name) | Contact No. / Mobile No. & E-mail | Signature | |
|---------|-----------------------------|--|--|---------------------|---------------------|
| | | | | 1 st Day | 2 nd Day |
| 1 | Mr. Jigar Trivedi | CME, Pune | 9954389100 jigar38@gmail.com | Toivedy | Toivedy |
| 2 | Mr. N. V. Vigil | CME, Pune | 7907256400 vigilnaic@gmail.com | NV | NV |
| 3 | Capt. Rajprasad | CME, Pune | 9600032011 rajprasadsr@gmail.com | Rajprasad | Rajprasad |
| 4 | Col. Joshil Raj | CME, Pune | 7578001351 joshilion@gmail.com | Raj | Raj |
| 5 | Mr. G. M. Walunekar | Veltech Chennai | 9822148115 gmeajin@yahoo.co.in | G.M. | G.M. |
| 6 | Mr. M .B. Lonare | Veltech Chennai | 3411971197 mblonare@gmail.com | M.B. | M.B. |
| 7 | Ms. Rupali Amit Bagate | Veltech Chennai | 9552936611 Rupali.bagate@gmail.com | Rupali | Rupali |
| 8 | Ms. Aparna Shashikant Joshi | Veltech Chennai | 9763853569 Aparna.joshi82@gmail.com | Aparna | Aparna |
| 9 | Mr. Sandeep Samleti | Veltech Chennai | 8007000879 sandeepsamleti@gmail.com | Sandeep | Sandeep |
| 10 | Ms. Yogita Hambir | VIT University | 8411971193 Yogita.bhavsar@gmail.com | Yogita | Yogita |

S. Jadhav
Dr. Sangeeta Jadhav
Name & Sign. of Co-ordinator
HOD
Department of Information Technology
Army Institute of Technology
Dighi Hills, Pune - 411015.



Name, Signature & Seal of Principal/Director

S. Jadhav
Principal
Army Institute of Technology
Dighi Hills, Pune - 411015



S. Jadhav
Principal
Army Institute of Technology
Dighi Hills, Pune - 411015

MINUTE SHEET
Department of Information Technology

Case No. AIT/2019-20/ IT/1353/Purchase

Sheet No: 1

1. Department of Information Technology has organized 3 days Faculty Development program on "Mathematical Modelling Approach towards Data Science" from 11th December 2019 to 13th December 2019.
2. Previously sanction Proposed Expenditure sheet is attached in Flag 'A'
- 3 The Resource person's final remuneration charges are attached in Flag 'B'
4. It is requested to issue NEFT of the following amount
 - 1) Rs 30,000/- in favor of Dr. Bhushan Garware
 - 2) Rs 17,962/- in favor of Mr. Sagar Sable
5. Please find NEFT Details of Dr. Bhushan Garware and Mr. Sagar Sable in Flag 'C'
6. It is requested to released the above said total amount of Rs. 47.962 / - from Sr.No b of R&D budget of IT, year 2019-20, attached in Flag 'D'
7. Put up for your perusal and approval please.

Boys
11/8
Prof. Rupali Bagate
Prof. Aparna Joshi
FDP Coordinator

Soladkar
17/12/19.
Dr. Sangeeta Jadhav
HOD-IT

[Signature]
The Principal: *17/12/19*

Jt Director:

Director: *[Signature]*

[Signature]
20/12/19.

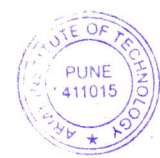
Disson plans of engaging Bhushan Garware for student workshops + comp for drs.

[Signature]
20/12/19

| Principal Office | |
|------------------|--------------------|
| S No. | <i>693</i> |
| Dt | <i>17/12</i> |
| Sign | <i>[Signature]</i> |

| | |
|-----------|--------------|
| Principal | |
| Office | |
| S No. | <i>9187</i> |
| Dt | <i>17/12</i> |
| Sign | <i>DH</i> |

Accounts



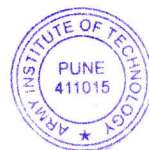
[Signature]
Principal
Army Institute of Technology
Dighi Hillis, Pune - 411015



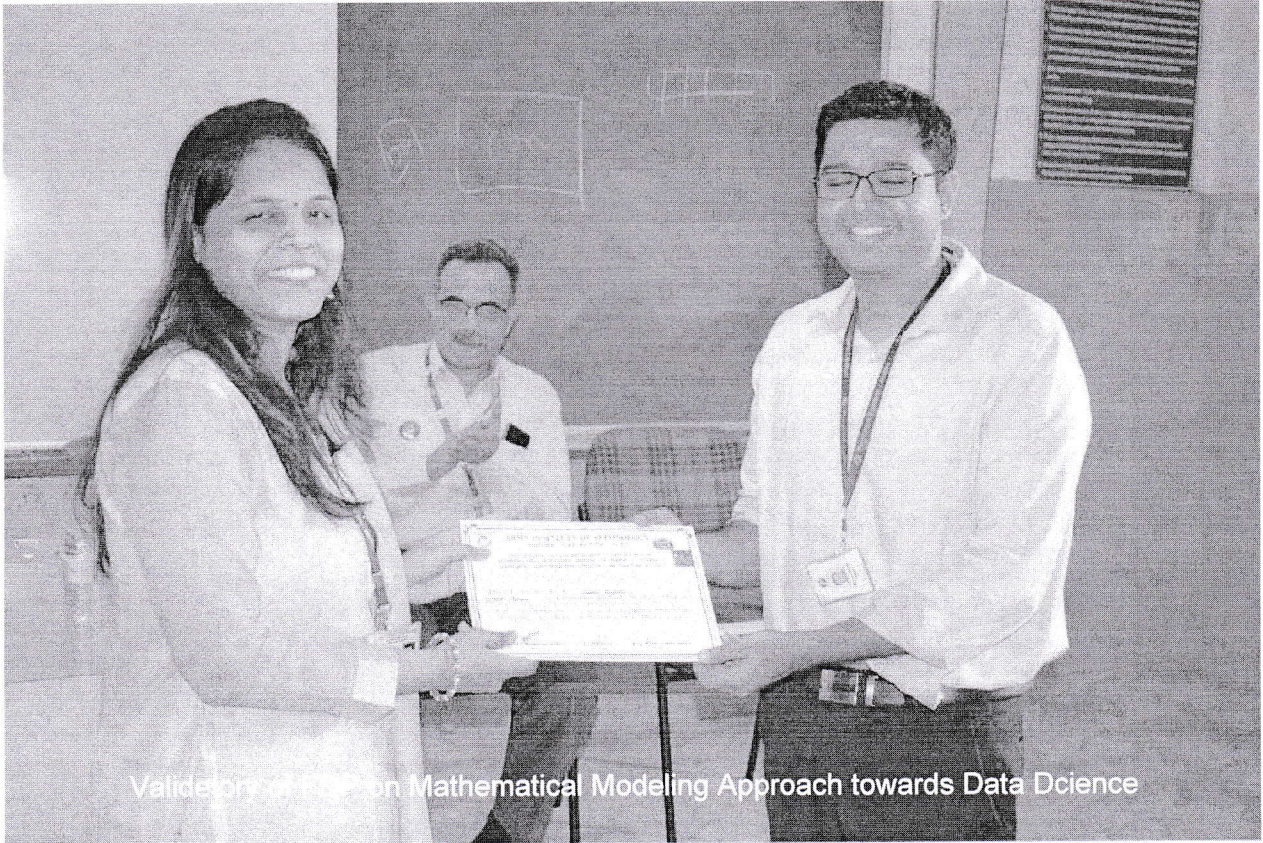
Validatory of FDP on Mathematical Modeling Approach towards Data Science



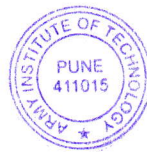
[Handwritten Signature]
Principal
Army Institute of Technology
Dighi Hillis, Pune - 411015



[Handwritten Signature]
Principal
Army Institute of Technology
Dighi Hillis, Pune - 411015



Validatory of M.Tech on Mathematical Modeling Approach towards Data Science



[Signature]
Principal
Army Institute of Technology
Dighi Hillis, Pune - 411015