



2nd STTP on

“MACHINE LEARNING”

(Sponsored Through TEQIP III)

NIT Raipur

Dept. of Electronics
and Telecommunication Engineering

&

Dept. of Information Technology

18th - 22nd December 2017

Call for participation

Objectives:

Machine Learning (ML) plays a significant role in the modern engineering and information processing systems. It is a rapidly growing field.

Machine Learning is an essential part of pattern recognition, object detection and classification, clustering, data mining and speech recognition etc.

The aim of this STTP is to provide an exposure to both basics and recent advances in Machine Learning to the teaching and research community associated with the departments of Electronics, Electrical, Computer

Science, IT, MCA, Bio Medical etc. The trainings will cover pattern recognition and data mining fields specifically.

Topics to be covered:

- Introduction to Machine Learning (ML).
- Hand-on training on MATLAB.
- Introduction to data mining.
- Types of classification, supervised and un-supervised learning.
- Statistical pattern recognition techniques-SVM, KNN etc.
- Dimensionality reduction techniques-PCA etc.
- Optimization techniques-PSO, DE etc.
- Clustering algorithms-KNN etc.
- Applications of ML.
- Applications in data mining and pattern recognition.
- Hands-on training on applications of ML algorithms.
- Q-Learning.

Important Dates:

Last date of receipt of application:

14.12.2017

Notification of selection (by Email):

15.12.2017

Registration Fee:

UG student: 1000/-

PG students : 1500-

Faculty: 3000/-

Participants of NIT Raipur: 1000/-

Address for Correspondence:

Dr. R K Chaurasiya (Asst. Prof.)
(Electronics and telecommunication)
Email: rkchaurasiya@nitrr.ac.in
Contact No. +91 9165 97 1639

Dr. P K Mishra (Asst. Prof.)
(Dept. of Information Technology)
Email: pavanmishra.it@nitrr.ac.in
Contact No. +91 7566 01 1780

Mr. T P Sahu (Asst. Prof.)
(Dept. of Information Technology)
Email: tirsahu.it@nitrr.ac.in
Contact No. +91 9826 55 1906



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REGISTRATION FORM FORMAT

(Please use separately attached Registration form for sending the application)

Name:

Designation:

Organization:

Qualification:

Correspondence Address:

.....

.....

Tel(M)

Type of participation:.....

E-Mail:

Registration Fee is paid in the form of

Online-Transfer to Institute's Account.

Amount

No.....Date

Name of the

Bank.....

Accommodation Required: Yes / No

Date: Place:

Signature

Note:

- The detail for online bank-transfer is attached with the registration form.

Chief-Patron

Prof. A. M. Rawani

Director, NIT Raipur

Patron

Prof. S. Sanyal

Dean (R&C), NIT Raipur

Chairman

Prof. S. Verma

Dean (Acad.), NIT Raipur

Conveners

Dr. A. S. Raghuvanshi

(HoD), Dept. of E&TC

Coordinators

Dr. R. K. Chaurasiya

Asst. Prof., NIT Raipur

Dr. P. K. Mishra

Asst. Prof., NIT Raipur

Mr. T. P. Sahu

Asst. Prof., NIT Raipur

Address for Correspondence

Dr. R. K. Chaurasiya (Asst. Prof.)

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Organized by

**Dept. of Electronics and
Telecommunication Engineering**

&

Dept. of Information Technology



**National Institute of Technology
Raipur-492 010 (Chhattisgarh)**

About the Institute:

National Institute of Technology Raipur

situated in the capital of Chhattisgarh, has proven to be "avant-grade" in the field of science and technology over past few decades in this region. With sweet memory of foundation ceremony by our president Hon'ble Dr. Rajendra Prasad on 14th September 1956, the institute started with two departments namely Metallurgical and Mining Engineering. Later the inauguration of the Institute building was done by our Prime Minister Hon'ble Pt. Jawahar Lal Nehru on 14th March 1963. From 1st December 2005, the institute has become the National Institute of Technology. It is well connected with Mumbai, Delhi and all metro cities by regular flights and is on the main Howrah-Mumbai railway route. The institute is 5 km from the Raipur railways station and 18 km from airport on NH-6, the Great Eastern Road.

About Departments:

The **Dept. of Electronics and Telecommunication** came into existence in 1985. The **Dept. of Information Technology** was started in year 2000. The departments aim be national leaders in imparting quality education, carrying out research and technology development. Both the department provides an outstanding research environment and offers academic program leading to the award of B. Tech, M Tech and Ph.D. degrees.

Venue:

NIT Raipur (CG) – 492 010, INDIA

Objectives:

Machine Learning (ML) plays a significant role in the modern engineering and information processing systems. It is a rapidly growing field.

Machine Learning is an essential part of pattern recognition, object detection and classification, clustering, data mining and speech recognition etc.

The aim of this STTP is to provide an exposure to both basics and recent advances in Machine Learning to the teaching and research community associated with the departments of Electronics, Electrical, Computer Science, IT, MCA, Bio Medical etc. The trainings will cover pattern recognition and data mining fields specifically.

Speakers:

Expert lectures will be delivered by the faculties working in the field of machine learning. The speakers from **IISc, IITs and other NITs** have also given their concern to deliver the expert lectures. Hands-on sessions are suitably designed to supplement classroom discussions using **MATLAB** and **WEKA** software.

Eligibility:

Participation in this short term training program (STTP) is open to the under-graduate students, post-graduate students, faculty members, engineers, researchers, and other executives working on diverse fields in electronics engineering, computer engineering, electrical engineering, instrumentation engineering, biomedical engineering, biotechnology, mechanical engineering, etc.

Selection:

The course coordinators reserve the right of selection of participants. The seats are limited to **35 candidates**. The preference will be given to the participants from outside the institute (NIT Raipur). Intimation regarding selection will be sent to the candidates by email as per the schedule. Certificates will be issued to the participants only after attending the complete course. No TA/DA will be paid to the participants. However, paid accommodation and dinner facility may be provided to outside male candidates at the institute hostels (**subjected to availability**).

Topics to be covered:

- Introduction to Machine Learning (ML).
- Hand-on training on MATLAB and its basic toolboxes.
- Introduction to data mining.
- Types of classification, supervised and un-supervised learning.
- Statistical pattern recognition techniques-SVM, KNN etc.
- Dimensionality reduction techniques- PCA, LDA etc.
- Clustering Analysis.
- Q-Learning
- Applications of ML.
- Applications in data mining and pattern recognition.
- Hands-on training on applications of ML algorithms.

Important Dates

Last date of receipt of application:

14.12.2017

Notification of selection (by Email):

15.12.2017

Registration Fee Details (in INR):

Sl. No	Participants	Reg. Fee
1.	UG Students	1,000.00
2.	PG/PhD Students	1,500.00
3.	Faculty /Industry Delegates	3,000.00
4.	Internal participants of NIT Raipur	1,000.00

Scanned copy of Application form in the prescribed format with registration fee in the form online-transfer to the institute account must reach the coordinator (Dr P K Mishra) on or before **14th December, 2017**. *Registration fee includes registration kit, course material, tea and snacks, and lunch during the program.* Fee is non-refundable for selected candidates.

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18th – 22nd December, 2017

REGISTRATION FORM

Name:
Gender:.....Date of Birth:.....
Designation:
Organization:
Qualification/Currently studying in:
Correspondence Address:
.....
Tel. (M) E-Mail:

Paste a recent
color photograph
here

Fee Type: (Please tick on appropriate-box)

UG Student	<input type="checkbox"/>	PG/PhD Student	<input type="checkbox"/>	Faculty /Industry Delegates	<input type="checkbox"/>	Internal participants of NIT Raipur	<input type="checkbox"/>
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Online Transfer Detail:

Amount:.....Transection/Ref. Number:.....Date:.....
Name of the Bank.....
(Please attach a proof of amount transfer with this form)

Date:
Place:

Signature

Note: Scanned copy of this registration-form along with Online Payment must reach to the coordinator (Dr Pavan K Mishra, email id: pavanmishra.it@nitrr.ac.in) on or before **14th Dec, 2017**.

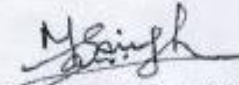


राष्ट्रीय प्रौद्योगिकी संस्थान रायपुर
NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR
(Institute of National Importance)
G.E. Road, Raipur - 492010 (CG)

Phone: (0771) 22 54 200
Fax: (0771) 22 54 600
Email: director.nitr@rediffmail.com
Website: www.nitr.ac.in

Bank Details of NIT Raipur is as under:

Bank Name:	State Bank of India
Bank Branch:	G.C.E.T. Branch
Bank Address:	G.E. Road, Raipur. (C.G.) Pin - 492010.
City:	Raipur (C.G.)
Country:	India
Account No:	30054181310
Account Name:	Director NIT Raipur
Bank Branch Code:	02852
IFSC Code:	SBIN0002852
Swift Code:	SBININBB646
Phone No. of Branch:	0771- 4040791/795


Dy. Registrar (F&A)
MLT Raipur (C.G.)

