Resource Persons

Guest speakers from various IITs/NITs, R&D labs and central universities

Eligibility

College/University/Institute teachers and Research Scholars in Science & Engineering.

Registration Fee

Nil

Boarding and Lodging

Free food and accommodation on shared basis is available for outstation participant only on first come first serve basis.

How to Apply

The application form along with terms and conditions are enclosed with this brochure. The same can be downloaded from IIT(ISM) website (http://www.iitism.ac.in/fdc) and send the hard copy of the duly filled application form by speed post to the course coordinator(s) on or before 25th Nov, 2017.



FDC Coordinators

Prof. Anil K. Nirala, Coordinator, FDC

Dr. Mahendra Yadav, Coordinator, FDC

Dr. Prashant K. Sharma, Co-coordinator, FDC

Dr. Umakanta Tripathy, Co-coordinator, FDC

Dr. H. P. Nayek, Co-coordinator, FDC

Dr. P. K. Kewat, Co-coordinator, FDC

Dr. S. A. Sahu, Co-coordinator, FDC

Local Organizing Committee

All the Faculty Members of Department of Applied Mathematics IIT(ISM), Dhanbad.

Programme Coordinators and Contact Details

Dr. Sanjeev Anand Sahu

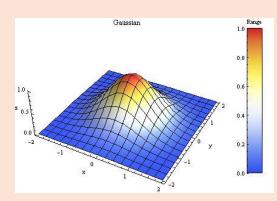
Assistant Professor Department of Applied Mathematics Indian Institute of Technology (ISM) Dhanbad-826004, Jharkhand, India Ph: 0326-223-5917 (O), +91-9708607865 Email:ism.sanjeev@gmail.com

Dr. Pramod Kumar Kewat

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Dr. Badam Singh Kushvah

Associate Professor Department of Applied Mathematics Indian Institute of Technology (ISM) Dhanbad-826004, Jharkhand, India Ph: 0326-223-5765 (O), +91-9471191119 Email: bskush@iitism.ac.in



National Training Programme in Scientific Computing with



under FACULTY DEVELOPMENT CENTRE

[A MHRD, GOI funded centre sanctioned under Pandit Madan Mohan Malviya National Mission on Teachers and Teaching]

> (Dec 4th – Dec 9th, 2017) Venue: IIT (ISM) Dhanbad





Organized by

FACULTY DEVELOPMENT CENTRE
INDIAN INSTITUTE OF TECHNOLOGY
(INDIAN SCHOOL OF MINES)
DHANBAD-826004, JHARKHAND, INDIA
http://www.iitism.ac.in

Email: fdc@iitism.ac.in

About Indian Institute of Technology (ISM) Dhanbad



Indian Institute of Technology (Indian School of Mines) Dhanbad is a fully residential technical institute having all modern facilities located in the mineral-rich belt of India in the major cooking coal city of Dhanbad, Jharkhand, India. It was established as ISM in 1926 on the lines of the Royal School of Mines, London.

IIT (ISM) Dhanbad, an Institute of National importance, has been rendering invaluable service to the cause of global education and societal development in its nine long decades of existence. Keeping in tune with the changing times a need has been realized for further expansion and diversification. IIT (ISM) has grown into a full-fledged technical institution with 18 departments offering a wide range of courses in Engineering, Science, Management, Humanities and Social Sciences at UG, PG and Ph.D. levels. IIT (ISM) admits students through IIT-JEE and GATE Entrance Exam in various courses of the respective departments.

Venue Location

The course will be conducted at FDC/EDC, IIT(ISM) Dhanbad. Dhanbad has good railway connectivity from several parts of the country. The nearby airports are Kolkata and Ranchi which are nearly 250 km and 180 km, respectively, from Dhanbad.

About Faculty Development Centre (FDC)

The Faculty Development Centre at Indian Institute of Technology (Indian School of Mines) Dhanbad, has been sanctioned by the Ministry of Human Resources Development Government of India, under the scheme of Pandit Madan Mohan Malaviya National Mission on Teachers and Training (PMMMNMTT). Faculty development has a critical role to play in promoting academic excellence and innovation. FDC will

incubate and nurture, on a continuous basis the professional development of teachers and will create opportunities for professional growth. Research Cell located within FDC will help to undertake research on different aspects for professional development of teachers. Faculty development is an essential element of institutional effectiveness. The extent to which the institution supports faculty development will be strongly reflected in levels of the engagement in learning activities, conduct of research and ultimately fulfilling the objectives and goals of the colleges/universities/institutes. Faculty development program includes the four possible types of development: personal (interpersonal skills, career development, and life planning issues); instructional (course design and development, instructional technology); organizational (ways to improve the institutional environment to better support teaching); and professional (ways to support faculty members so that they fulfill their multiple roles of teaching, research and service).

Vision and Mission

- To inculcate among teachers, the motivations to promote institutional effectives through the development of personal, instructional, organizational, and professional growth of faculty.
- To promote organizational strategies for faculty development so as to incentivize teachers to grow professionally and enable the institutions to grow.
- Faculty development is expected to result in improved teaching performance and better learning outcomes for students and teachers.
- To promote new ways of thinking about the student-teacher relationship, and increased commitment to educational scholarship.
- Developing all round skills are a prominent aspect for faculty development.

Objectives

 Training programme for the entry level teachers or faculties on probation is planned so that the person who enters the college/ university/

- institute can be sensitized of his/her roles and responsibilities in their respective organizations.
- Raising the quality of teaching in colleges/universities/institutes.
- The faculty development center will also offer a wide variety of services, as outlined below.
- Teaching & Learning
- Research & Creative Activity
- Career Planning
- Collegial Conservations
- Communication Technologies
- Resources & Support

Aim and Programme Objectives

This training programme aims to stimulate interest of scientific writing in young (early-career) teachers and research scholars from different parts of the country. This program is designed to provide them a platform to learn the fundamentals as well as the latest developments in the offered field. The training program will run with the objective to make use of scientific writing using mathematica software.

Programme Contents

Some salient topics to be covered...

- Introduction to mathematica
- Rules, patterns and Built-in functions
- Algebraic & Numerical computations
- Functions (with multiple variables, with variable arguments, with multiple definitions, discontinuous function, implicit and explicit functions, special functions..etc)
- File: Import/Export operations
- Writing efficient programs: techniques and applications
- Generating LaTex with mathematica
- Graphics with mathematica (2D,3D)

Hands on training sessions for the participants will be the integral part of the program. Special session to address the common errors (and their remedies) is planned to help young researchers to refine their scientific writing and critical reading skills.



Date: Phone No.:

FACULTY DEVELOPMENT CENTRE

(A MHRD, GOI FUNDED CENTRE SANCTIONED UNDER PMMMNMTT)

INDIAN INSTITUTE OF TECHNOLOGY

(INDIAN SCHOOL OF MINES)

DHANBAD 826004, JHARKHAND, INDIA

APPLI	CATION FOR ADMISSION TO THE	
NATIO	ONAL TRAINING PROGRAMME IN SUBJECT:/	РНОТО
	FOR THE COLLEGE/UNIVERSITY/INSTITUTE TEACHERS AND RESEASCHOLARS (YEAR 2017-2018) (Part A: To be filled by the candidate)	ARCH
1.	Name (block letters):	
2.	Designation:	
3.		
4.	Phone No.: Mobile No.: Email:	
5.	Pay Scale: Current Basic Pay: Grade Pay:	
6.	Date of Birth: DD/MM/YYYY Male / Female / Trans Gender (Please tick	appropriate box)
7.		appropriate box)
8.	Teaching Experience: (Years) (Months) in	
	(Please submit xerox copy of appointment letter)	, ,
	If confirmed, date of confirmation as permanent Lecturer/Sr. Lecturer/ Asst. Prof	
9.	For outstation participants only: Whether accommodation is required: YES/NO. If NO ple local address:	ase give your
10	Any other relevant details:	
11	• Declaration: I certify that I fulfil the eligibility criteria and details given above are true to the knowledge and I accept to follow the terms and conditions (enclosed overleaf) of the Faculty Centre, Indian Institute of Technology (ISM), Dhanbad.	
Da	ate:	
Pla	ace: Full Signature of th	e Applicant
	(Part B: To be filled by Employer)	
1.	This application of Dr./Mr./Mrs./Ms	/ Asst. Prof./
	Research Scholar In this College/Universities/Institute, w.e.f is being reco	mmended and
	forwarded to the Co-Ordinator(s), Faculty Development Centre, IIT(ISM) Dhanbad for attended	ding National
	Training Programme. If selected, he/she will be fully relieved for the entire period of the program	me.
2.	This is to certify further that our University/College or Institute is affiliated with the university	for the last 2
	years and comes / not comes under the preview of UGC under section 2(F) and /or 12(B) of the	ie UGC Act.
Pl	ace:	

Signature of the Registrar/Principal/Director/HOD (with seal)



FACULTY DEVELOPMENT CENTRE

(A MHRD, GOI FUNDED CENTRE SANCTIONED UNDER PMMMNMTT)

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES)

DHANBAD 826004, JHARKHAND, INDIA

TERMS AND CONDITION FOR NATIONAL TRAINING PROGRAMME AT FDC-IIT(ISM) DHANBAD

1) Eligibility: 1) Teachers in continuous service of the University/Institute in Science and Engineering Departments are eligible for National Training Programme. 2) Research Scholars of Science & Engineering Departments.

1. Nature of Support:

- a. Registration Fee: NIL.
- **b. Boarding & Lodging:** FREE. This will cover food, and accommodation on shared basis of outstation participants.
- c. TA/DA: The participants will be paid TA/DA as per MHRD, GOI norms. All outstation participants shall be paid one time to and fro IIIrd AC railway fare from their place of posting to Dhanbad and back through shortest route only on successful completion of the programme. The participants are required to submit the original railway tickets for the to and fro journey.
- 2. All the participants are required to bring two passport-size photographs.
- **3.** The programme will be full time through six days a week and classes will be conducted even on holidays except Sundays. The detailed programme shall be provided during registration.

All participants must register themselves positively on the Inaugural Day at the FDC, IIT (ISM) Dhanbad failing which the selection to participate shall stand cancelled.

- **4.** The participants will also be requested to submit their opinion and suggestions (feedback) on the various components of the programme as well as seminars on the fellow participants.
- 5. The participants are required to attend all the sessions of the programme sincerely. No leave shall be granted during the programme.
- **6.** Only those participants who will complete the programme in all respects shall be eligible to receive the certificate of participation. In case of any default on the part of the applicant, the Co-Ordinator(s), FDC, IIT(ISM) Dhanbad, has all the rights to cancel the admission or withhold payment of TA/DA and the certificate. In such a case no queries will be entertained.
- 7. The teachers of colleges that do not yet come within the purview of section 12(B) of the UGC act, but have been affiliated to a university for at least two years, will be permitted to participate in the programmes.
- **8.** Hard copy of complete application in all aspects along with all the documents should reach to any of the Programme Co-Ordinators of Faculty Development Centre, IIT (ISM), Dhanbad at following address:
 - a. **Dr. Sanjeev A. Sahu**, Programme Co-ordinator, Faculty Development Centre, Department of Applied Mathematics, Indian Institute of Technology (Indian School of Mines), Dhanbad-826004, Jharkhand, India, Ph: 0326-223-5917(O); 09708607865 (Mo), Email: ism.sanjeev@gmail.com
 - b. Dr. Pramod K Kewat, Programme Co-ordinator, Faculty Development Centre, Department of Applied Mathematics, Indian Institute of Technology (Indian School of Mines), Dhanbad-826004, Jharkhand, India, Ph: 0326-223-5921 (O); 09471191836 (Mo), Email: pramodkewat@gmail.com
 - c. Dr. Badam S Kushvah, Programme Co-ordinator, Department of Applied Mathematics, Indian Institute of Technology (Indian School of Mines), Dhanbad-826004, Jharkhand, India, Ph. 0326-223-5665 (O); 09471191119 (Mo), Email: bskushvah@iitism.ac.in