

Joint Online Two Weeks Certification Programme

Numerical Analysis & Optimization for Physicists, Scientists & Engineers using open-source- SCILAB 04 – 15 October, 2021

organized by

NIT Patna, MNIT Jaipur, IIT Guwahati, PDPM IITDM Jabalpur and IIT Kanpur



Course Contents

- Solving set of equations
- Large Matrix analysis and large Eigen value problem
- Random numbers: Simulation & Applications
- Open source & traditional technical computing
- Solving ordinary differential equations (ODE); plotting 2D and 3D plots; diagram creation
- Xcos- Model based simulations using Xcos
- Introduction to Discrete Probabilities with Scilab
- Introduction to constrained and un-constrained optimization; optimality conditions
- Writing functions in Scilab and scripting
- Building an interactive GUI
- Linear algebraic equations, fast computation, Pade & rational approximation
- Application development; Industry real time Use Cases

Features

- Instructor led online training sessions
- 3-4 hours per day
- Rigorous Hand- on (practice) sessions
- Experts/Speakers from IITs, NITs, IIITs, industry and research organizations
- Specific industry-led sessions
- Opportunities to connect with expert for research orientation

Joint Principal Coordinator

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Last Date to apply: September 30, 2021

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Registration Details

Registration link -

<https://forms.gle/PQrLbuPZyZFnW3HE6>

Registration fee

Faculty/students – Rs. 500/-

Others – Rs. 1000 /-

Foreign participants – Rs. 4000/-

Online payment details:-

Bank Name: State Bank of India

A/C Name: IIT Guwahati R and D E and ICT Academy

Account No.: 36071160089

IFSC Code: SBIN0014262

Bank Name: State Bank of India

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