

EICT Academies Global Online FDP on SDC-05A Advanced Optimization Techniques & MATLAB (Date :24th August to 3rd Sept 2026)

Date	Session I (4PM-5PM)		Session II (5.00PM-6.00PM)	Session III (6.10PM-7.10PM)	Session IV(7.10PM-8.10PM)
24-08-2026 (Monday)	3.30PM-4.00 PM	4.00PM-5.00PM	Module II : Prof. Kusum Deep	Module I : Prof. Ratnajit Bhattacharjee	Lab I : Er. Pratyush Roy
	Inauguration	Module I : Prof. G. Panda	Genetic Algorithm	Fundamentals of Classical Optimization Techniques-I	MATLAB Toolbox for Optimization Algorithms-I
	Introduction to Optimization Algorithms				
25-08-2026 (Tuesday)	Module II : Prof. G. Panda		Module II : Prof. B. K. Panigrahi	Module I : Prof. Ratnajit Bhattacharjee	Lab II : Er. Pratyush Roy
	Ant Colony Optimization		Particle Swarm Optimization & Its Variants	Fundamentals of Classical Optimization Techniques-II	MATLAB Toolbox for Optimization Algorithms-II
26-08-2026 (Wednesday)	Module I : Dr. Gunjan Soni		Module I : Prof. N. V. George	Module I : Dr. Anil Kumar	Lab III : Dr. S. J. Nanda
	Markov Chain and Optimization		Optimization Algorithms for Nonlinear System Identification	Linear Optimization in Multi-rate Signal Processing	MATLAB Programming for Linear Optimization
27-08-2026 (Thursday)	Module I : Prof. N. V. George		Module II : Prof. Rajesh Kumar	Module II : Dr. S. J. Nanda	Lab IV : Dr. Anita Panwar
	Optimization Algorithms for Audio Signal Processing		Design of Metaheuristic Optimization	Optimization Algorithms for Hyperspectral Image Analysis	GA, PSO Implementation in MATLAB
28-08-2026 (Friday)	Module III : Prof. B. K. Panigrahi		Module II : Prof. Rajesh Kumar	Module II : Prof. J. C. Bansal	Lab V : Dr. Rahul K. Vijay
	Introduction to Multi Objective Optimization (MOO)		Differential Evolution (DE) and its variants	Artificial Bee Colony	MATLAB for DE and Grey Wolf Optimizer
29-08-2026 (Saturday)	Module III : Dr. Sriparna Saha		Module III : Prof. P. M. Pradhan	Module IV : Prof. J. C. Bansal	Lab VI : Dr. Dinesh Kumar Kotary
	MOO application in Data Clustering		MOO for Wireless Sensor Network	Optimization Algorithms for Drone Swarm	NSGA-II Implementation in MATLAB
31-08-2026 (Monday)	Module III : Dr. Sriparna Saha		Module III : Prof. P. M. Pradhan	Module IV : Dr. Ashish Sharma	Lab VII : Dr. Rachana Gupta
	MOO for Natural Language Processing		MOO for Cognitive Radio	Optimization Algorithms for Seismic Signal Processing	Many Objective Optimization and NSGA-III with MATLAB
01-09-2026 (Tuesday)	Module III : Dr. Abhishek Gupta		Module III : Prof. Swagatam Das	Module IV : Dr. Ajit Ku. Sahoo	Module IV : Dr. Sitanshu S. Sahu
	Transfer and Multi Task Optimization		Statistical tests for single and multi objective optimization	Optimization Algorithms for SAR Image Despeckling	Optimization Algorithms for Biomedical Applications
02-09-2026 (Wednesday)	Module III : Prof. Swagatam Das		Module IV : Dr. Arnapurna Panda	Module IV : Prof. Kusum Deep	Module IV : Dr. Ila Sharma
	Dynamic & Constrained Optimization		Optimization Algorithms for solving Differential Equations	Optimization Algorithms for solving Mathematical Problems	Optimization Algorithms in Filter Designing
03-09-2026 (Thursday)	Module IV : Prof. N. P. Padhy		Module IV : Dr. Deepak R. Nayak	Module IV : Dr. Rashmi Panda	Module IV : Dr. Vasundhara
	Application of Optimization Techniques to Electrical Engg. Problems		Optimization Algorithms for Neural Networks & Deep Learning	Optimization Algorithms for Internet of Vehicles	Optimization Algorithms for Hearing Assistive Devices

- 1) Prof. Narayana Prasad Padhy, Director MNIT Jaipur and Director IIIT Kota, Dept. of Electrical Engineering, IIT Roorkee
- 2) Prof. Ganapati Panda, Fellow INAE, Research Advisor C. V. Raman Global Univ., Odisha, Former Dy. Director IIT Bhubaneswar
- 3) Prof. Bijaya Ketan Panigrahi, Fellow IEEE, Dept. of Electrical Engineering, IIT Delhi
- 4) Prof. Kusum Deep, Professor Emeritus, Dept. of Mathematics, IIT Roorkee
- 5) Prof. Ratnajit Bhattacharjee, Founding Head for the Mehta Family School of Data Science and Artificial Intelligence, IIT Guwahati
- 6) Prof. Nithin V. George, Dept. of Electrical Engineering, IIT Gandhinagar
- 7) Prof. Swagatam Das, Electronics and Communication Sciences Unit, ISI Kolkata
- 8) Prof. Rajesh Kumar, Dept. of Electrical Engg., MNIT Jaipur and Coordinator, IIIT Kota
- 9) Prof. Pyari M. Pradhan, Dept. of Electronics and Communication Engg., IIT Roorkee
- 10) Prof. Jagdish Chand Bansal, Dept. of Mathematics, South Asian University, New Delhi
- 11) Dr. Sriparna Saha, Dept. of Computer Science and Engineering, IIT Patna
- 12) Dr. Abhishek Gupta, Ramanujan Fellow, Mechanical Engineering, IIT Goa
- 13) Dr. Ajit Ku. Sahoo, Dept. of Electronics and Communication Engg., NIT Rourkela
- 14) Dr. Vasundhara, Dept. of Electronics and Communication Engg., NIT Warangal
- 15) Dr. Anil Kumar, Dept. of Electronics and Communication Engg., IIITDM Jabalpur
- 16) Dr. Rashmi Panda, Dept. of Electronics and Communication Engg., IIIT Ranchi
- 17) Dr. Dinesh Kumar Kotary, Dept. of Electronics and Communication Engg., Madan Mohan Malaviya Univ. of Tech., Gorakhpur
- 18) Dr. Anita Panwar, Dept. of Electronics and Communication Engg., UCET, Bikaner Technical University, Bikaner
- 19) Dr. Sitanshu Sekhar Sahu, Dept. of Electronics and Communication Engg., Birla Institute of Technology, Mesra
- 20) Dr. Arnapurna Panda, Centre of Data Sciences, Siksha 'O' Anusandhan University, Bhubaneswar
- 21) Dr. Rahul Kumar Vijay, Dept. of Computer Science, Banasthali Vidyapeeth
- 22) Dr. Ashish Sharma, Dept. of Electronics and Communication Engg., Manipal Academy of Higher Education, Bengaluru
- 23) Dr. Rachana Gupta, Data Scientist, Senior Software Engineer, Simform, Ahmedabad
- 24) Er. Pratyush Roy, Senior Customer Success Engineer, MathWorks India, New Delhi
- 25) Dr. Gunjan Soni, Dept. of Mechanical Engg., MNIT Jaipur
- 26) Dr. Deepak Ranjan Nayak, Dept. of Computer Science and Engg., MNIT Jaipur
- 27) Dr. Ila Sharma, Dept. of Electronics and Communication Engg., MNIT Jaipur (Coordinator)
- 28) Dr. Satyasai Jagannath Nanda, Dept. of Electronics and Communication Engg., MNIT Jaipur (Coordinator)