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Dr. Jay Prakash

Registrar, MMMUT Gorakhpur

Dr. Shekhar Yadav

Assistant Professor, EED, MMMUT Gorakhpur

List of Speakers

Dr. Radhakant Padhi, Professor, IISc Bangalore

Dr. Shyam Kamal, Assoc. Professor, IIT BHU Varanasi

Dr. Twinkle Tripathy, Asst. Professor, IIT Kanpur

Dr. Siva Kumar Tadepalli, Asst. Prof., NIT Uttarakhand

Dr. T. Chiranjeevi, Asst. Prof., REC Sonbhadra

Dr. Mohammad Atif Siddiqui, Asst. Prof., Integral Univ.

About University

Madan Mohan Malaviya University of Technology, Gorakhpur has been established in the year 2013 by the Government of Uttar Pradesh in the form of a non-affiliating technical University after reconstituting the Madan Mohan Malaviya Engineering College, Gorakhpur which was established in 1962. In addition to UG in Civil Engineering, Chemical Engineering, Computer Science & Engineering, Mechanical Engineering, Electrical Engineering and Electronics & Communication Engineering, Information Technology, University also offers B.Pharm, BBA, MBA, MCA, M. Tech, M.Sc. and Ph.D. courses in various specializations.



About Gorakhpur

The Gorakhpur is well connected by air, road and rail to all major cities Lucknow (270 KM), Varanasi (197 KM) and Patna (220 KM). Direct flights are also available from New Delhi to Gorakhpur. The MMM University of Technology is situated on Deoria road about 9 Km from Gorakhpur Junction and 5 Km from the Gorakhpur airport.

Short Term Training Program on Recent Advances in Control Systems (RACS-2022)

November 25 - 29, 2022

Course Convener

Dr. Awadhesh Kumar

Assistant Professor, EED
MMMUT Gorakhpur (U.P.), India

Jointly Organized by



**All India Council for Technical Education (AICTE),
New Delhi**

&



**Department of Electrical Engineering
Madan Mohan Malaviya University of Technology
Gorakhpur-273 010, (U.P) INDIA
(NAAC "A" Grade)**

About RACS-2022

The Department of Electrical Engineering is organizing one-week Short Term Training Program on **Recent Advances in Control Systems (RACS-2022)**. The Course is designed for Faculty Members, and Research Scholars from AICTE approved institutions. The course has been designed to cover both theoretical as well as the practical concepts in the control systems engineering along with the tools and simulators useful for the participants for their Projects and Research Work.

Contents of the Course

The Course provides in-depth coverage on possibly few of the following areas:

- **Nonlinear Dynamics & Control**
- **Adaptive & Optimal Control**
- **Robust and Intelligent Control**
- **PID Control Techniques**
- **Fractional Order Control**
- **Sliding Mode Control**
- **Linear Matrix Inequality**
- **Aerospace and Under water vehicles**
- **Uncertainties and State Estimation**

Course Duration

One Week, November 25 - 29, 2022 (Offline Mode)

Certification Criteria

- **80% Attendance**
- **60% Marks in Quiz**

Eligibility Criteria

The program targets Faculty members and Research Scholars of **Electrical, Mechanical, Electronics and Chemical Engineering from AICTE approved Institutions**. Limited to 50 participants on first come first served basis.

Registration & Address for Communication

The applicants are requested to get themselves registered through the following link:

<https://tinyurl.com/RACS-2022>

For any further query, you may contact:

Dr. Jay Prakash, registrar@mmmut.ac.in

Dr. Shekhar Yadav, syee@mmmut.ac.in

Dr. Awadhesh Kumar, akee@mmmut.ac.in

Contact:

+91-9235500552, 9411222122, 9235501645

Important Dates

Last Date to Apply: November 22, 2022

Note: All the participants from AICTE approved Institutions will be provided TA as follows:

- For Faculties (3rd AC sleeper class with max. distance of 300 KM)
- For Research Scholars (Non-AC sleeper class with max. distance of 300 KM)

All participants will be provided Hostel accommodation including Breakfast, Lunch, and Dinner.

SHORT TERM TRAINING PROGRAM ON

RECENT ADVANCES IN CONTROL SYSTEMS (RACS-2022)

(Sponsored by AICTE-MMMUT MoU Activities)

Application Form

1. Name (block letter):
2. Designation & pay scale:
3. Organization:
4. Address for communication:

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Pin code: Ph. No.

E-mail:

5. Highest Academic Qualification:

6. Specialization:

7. Experience (in years):

(a) Teaching:

(b) Industrial:

8. Accommodation Required (Yes/No):.....

Please register me for the course on **“RACS-2022”** held at MMMUT, Gorakhpur.

Place: _____

Date: _____ Applicant’s Signature

Seal and Signature of Head of Institution

Short Term Training Program on **Recent Advances in Control Systems (RACS-2022)**

November 25- 29, 2022

Organized by

Department of Electrical Engineering, Madan Mohan Malaviya University of Technology, Gorakhpur

Program Schedule

Date	Session-1 (10:00 -11:45 AM)	Tea-Break	Session-2 (12:00-01:45 PM)	Lunch	Session-3 (03:30-05:15)
25/11/2022	(Inauguration) followed by Keynote Talk by RKP Topic: "Air Traffic Model for Airspace (ATMA) of India: Part-1"	(11:45-12:00 PM)	(Lecture by RKP) Topic: "Air Traffic Model for Airspace (ATMA) of India: Part-2"	(01:45-03:30 PM)	(Lecture by SK) Topic: "Different Problems Faced by Control Engineers"
26/11/2022	Session-4 (09:30-11:15 AM) (Lecture by SK) Topic: "Basic Approaches towards solving the six different Problems: Part-1"	(11:15-11:30 AM)	Session-5 (11:30-01:15 PM) (Lecture by RKP) Topic: "Artificial pancreas for Type-1 diabetic patients of India"	(01:15-02:30 PM)	Session-6 (02:30-04:15 PM) (Lecture by TT) Topic: "Guidance Strategies for Autonomous Vehicles: Part-1"
27/11/2022	Session-7 (09:30-11:15 AM) (Lecture by RKP) Topic: "Planetary soft-landing using optimal guidance"	(11:15-11:30 AM)	Session-8 (11:30-01:15 PM) (Lecture by SK) Topic: "Basic Approaches towards solving the six different Problems: Part-2"	(01:15-02:00 PM)	Session-9 (02:00-03:45 PM) (Lecture by TT) Topic: "Guidance Strategies for Autonomous Vehicles: Part-2"
28/11/2022	Session-10 (09:30-11:15 AM) (Lecture by TC) Topic: "Optimal Control of a Class of Fractional Order Systems"	(11:15-11:30 AM)	Session-11 (11:30-01:15 PM) (Lecture by MAS) Topic: "Controller Design in Improved Controlled Structure for LTI Systems"	(01:15-03:00 PM)	Session-12 (03:00-04:45 PM) (Lecture by SKT) Topic: "Linear Matrix Inequality: Part-1"
29/11/2022	Session-13 (09:30-11:15 AM) (Lecture by SKT) Topic: "Linear Matrix Inequality: Part-2"	(11:15-11:30 AM)	Session-14 (11:30-01:15 PM) (Hand-on Training by SKT)	(01:15-03:00 PM)	Session-15 (03:00-04:45 PM) Closing Ceremony Followed by Test and Feedback

List of Speakers:

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Dr. Shyam Kamal, Assoc. Professor, IIT BHU Varanasi
Dr. Twinkle Tripathy, Asst. Professor, IIT Kanpur

Dr Siva Kumar Tadepalli, Asst. Prof., NIT Uttarakhand
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