



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute, Affiliated to R.G.P.V, Bhopal)

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DEPARTMENT OF ELECTRONICS ENGINEERING

NEWSLETTER

Apr-June 2022/Issue-2



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1. Talk deliver outside the institute.

1. Dr. **Shubhi Kansal** delivered an invited talk at **BMS, College of Engineering, Bangalore** on 18 June 2022 on the topic “Industrial Applications of Image Processing”.
2. Prof. **Deep Kishore Parsediya** delivered an invited talk at **Institute of Engineering, JU** on 18 June 2022 on the topic “MEMS and MECHATRONICS”.





2.FDP/STC Attended(Outside/Inside) the Institute.

1. **Dr. Sushmita Chaudhari** attended 12 Weeks NPTEL SWAYAM FDP on *Sensors and Actuators* conducted by AICTE.
2. **Dr. Shubhi Kansal** attended 12 Weeks NPTEL SWAYAM FDP on *Computer Vision and Image Processing* conducted by AICTE.
3. **Dr. Deepak Batham** attended 12 Weeks NPTEL SWAYAM FDP on *Fuzzy Logic Sets and Applications* conducted by AICTE.



3. Activities Organized (Workshop/Conference/FDP) at Institute Level.

1. Workshop on “Drone Technology” organized at MITS Gwalior on 23rd April 2022. Capt. **Pranay Deep Gaur**. delivered the lecture. Total 260 participants have successfully completed this workshop.
2. Workshop on “Patents designs and functional aspects of IPR” organized at MITS Gwalior on 26th April 2022. **Mr. Saumya Jain**, Examiner of Patent and design, Patent office delivered the lecture. Total 134 participants have successfully completed this workshop.
3. Online Faculty Development Program organized on “Recent Trends in Electronics Engineering (Under CLPA)” at MITS Gwalior from 2 June to 6 June 2022. Total 8 experts of different fields have delivered their lectures. Total 36 participants have successfully completed this workshop.





4. NPTEL/ATAL/Coursera/Internshala attended by faculty.

1. Dr. Deepak Batham Successfully completed 12 Weeks NPTEL Course “Fuzzy Sets, Logic and Systems and Applications” and “Digital Electronic circuits” in Elite category.
2. Prof. Madhav Singh Successfully completed 12 Weeks NPTEL Course “Integrated Circuits, Mosfets, Op-amps and their applications” in Elite category.
3. Dr. Sandeep Sharma Successfully completed 12 Weeks NPTEL Courses “Microprocessors and Microcontrollers” and “Microprocessors and interfacing” in Elite category.
4. Dr. Shubhi Kansal Successfully completed 12 Weeks NPTEL Courses “Computer Vision and Image Processing” and “Digital Electronic circuits”.
5. Dr. Sushmita Chaudhari Successfully completed 12 Weeks NPTEL Course “Sensors and Actuators” in Elite category.
6. Dr. Vikas Mahor Successfully completed 12 Weeks NPTEL Courses. “Digital Electronic circuits” and “Embedded System Design”.
7. Dr. Vandana Vikas Thakare Successfully completed 8 Weeks NPTEL Course “ Outcome based Pedagogic principles for effective teaching” in Elite + Silver category.
8. Dr. P.K Singhal Successfully completed completed 8 Weeks NPTEL Course “ Outcome based Pedagogic principles for effective teaching” in Elite + Silver category..
9. Dr. Karuna Markam Successfully completed 8 Weeks NPTEL Course “Discrete Time Signal Processing”.
10. Dr. Varun Sharma Successfully completed 12 Weeks NPTEL Course “Physics of Nanoscale Devices” and “ CMOS Digital VLSI Design” in Elite category.



Certificates.



Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)




This certificate is awarded to
DEEPAK BATHAM
for successfully completing the course

Fuzzy Sets, Logic and Systems & Applications

with a consolidated score of **75** %

Online Assignments	24.06/25	Proctored Exam	50.5/75
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Total number of candidates certified in this course: **764**


Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur


Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Jan-Apr 2022
(12 week course)


Indian Institute of Technology Kanpur



Roll No: NPTEL22EE21513490361 To validate and check scores: <https://nptel.ac.in/noc>



Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)



This certificate is awarded to
SHUBHI KANSAL
for successfully completing the course

Digital Electronic Circuits

with a consolidated score of **56** %

Online Assignments	18.63/25	Proctored Exam	37.5/75
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Total number of candidates certified in this course: **291**


Prof. Jayanta Mukhopadhyay
Dean Outreach
IIT Kharagpur


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Jan-Apr 2022
(12 week course)


Indian Institute of Technology Kharagpur



Roll No: NPTEL22EE55523491320 To validate and check scores: <https://nptel.ac.in/noc>



Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)



This certificate is awarded to
MADHAV SINGH
for successfully completing the course

Integrated Circuits, Mosfets, OP-Amps and their Applications

with a consolidated score of **64** %

Online Assignments	20.25/25	Proctored Exam	43.5/75
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Total number of candidates certified in this course: **175**


Prof. C. L. Srinivasar Kaba
Chairman, Centre for Continuing Education
IIT Bangalore


Prof. J. Umadevi
NPTEL Coordinator
IIT Bangalore

Jan-Apr 2022
(12 week course)


Indian Institute of Science Bangalore



Roll No: NPTEL22EE27523490931 To validate and check scores: <https://nptel.ac.in/noc>



Elite
NPTEL Online Certification
(Funded by the MoE, Govt. of India)



This certificate is awarded to
SANDEEP SHARMA
for successfully completing the course

Microprocessors and Microcontrollers

with a consolidated score of **72** %

Online Assignments	23.53/25	Proctored Exam	48/75
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Total number of candidates certified in this course: **737**


Prof. Jayanta Mukhopadhyay
Dean Outreach
IIT Kharagpur


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Jan-Apr 2022
(12 week course)


Indian Institute of Technology Kharagpur



Roll No: NPTEL22EE12513490708 To validate and check scores: <https://nptel.ac.in/noc>



5. Patent file/Granted(April to June 2022).

1. One Indian Patent Published in June 2022.

Application Details

APPLICATION NUMBER: 202221032110

DATE OF FILING :04/06/2022

APPLICANT NAME 1 . Madhav Singh

2. Dr. Laxmi Shrivastava

3. Manoj Singh Tomar

4. Bhupendra Dhakad

TITLE OF INVENTION: An Energy-Optimized System for Tracking and Localization of Objects in Wireless Sensor Network

FIELD OF INVENTION :Communication



6.Publication SCI/Scopus/UGC with DOI number.

1. Abhilash Singh, J Amutha, Jaiprakash Nagar, Sandeep Sharma, CC Lee, “LT-FS-ID: Log-Transformed Feature Learning and Feature-Scaling-Based Machine Learning Algorithms to Predict the k-Barriers for Intrusion Detection Using Wireless Sensor Network”,June2022.
2. Hemant Choubey,Sandeep Sharma, “HFD and MCFET Based Feature Extraction Technique for Detection of Epilepsy Using ANN Classifier ,May 2022.
3. Abhilash Singh, J.Amutha, Jaiprakash Nagar, and Sandeep Sharma, and Cheng-Chi Lee, “AutoML-ID: Automated machine learning model for intrusion detection using wireless sensor network”,2022.
4. J. Amutha, Sandeep Sharma, and Sanjay Sharma, “An Energy Efficient Cluster based Hybrid Optimization Algorithm with Static Sink and Mobile Sink Node for Wireless Sensor Networks, June 2022.
5. Tanya Sood, Satyarth Prakash, Sandeep Sharma, Abhilash Singh , Hemant Choubey, “Intrusion Detection System in Wireless Sensor Network Using Conditional Generative Adversarial Network”,May 2022.
6. Jayaprakash Venugopal, Rahul Dubey, Vikas Mahor, G. Ramkumar, Ajay Singh Yadav, “Analysis and performance enhancement of newly designed solar based heat pump for water heating application”,2022.
7. Rahul Dubey, Mohit Kumar, Abhay Upadhyay, R B Pachori, “Automated diagnosis of muscle diseases from EMG signals using empirical mode decomposition based method”,2022.



6.Publication SCI/Scopus/UGC with DOI number.

8. Suchi Mishra ,Rahul Dubey, Preety D. Swami, and Alok Jain, “Fault Size Estimation of Bearings Using Multiple Decomposition Techniques with Artificial Neural Network”,June 2022.
9. Vikram Rajpoot, Rahul Dubey,Safdar Sardar Khan, Saumil Maheshwari, Abhishek Dixit, Arpit Deo, Nikita Vats Dohan, “Orchard Boumans Algorithm and MRF Approach Based on Full Threshold Segmentation for Dental X-Ray Images”,June 2022.
10. Vikram Rajpoot, Rahul Dubey, Praveen Kumar Mannepalli, Parcha Kalyani, Saumil Maheshwari, Abhishek Dixit, Akash Saxena, “Mango Plant Disease Detection System Using Hybrid BBHE and CNN Approach”,June 2022.
11. Jayaprakash Venugopal, Rahul Dubey, Vikas Mahor, G. Ramkumar, Ajay Singh Yadav, “Analysis and performance enhancement of newly designed solar based heat pump for water heating application”,2022.



7. Student Club Activities Organized.

1. A free hand drawing Inter College competition “Tare Zameen Par” was organized by Art club on 15th April 2022.
2. Workshop on “Drone Technology” organized at MITS Gwalior in collaboration with Rocket club on 23rd April 2022. Capt. **Pranay Deep Gaur.** delivered the lecture. Total 260 participants have successfully completed this workshop.





7.Student Club Activities Organized.



Department of Electronics Engineering



8. Departmental Activities.

1. In-house workshop: “Deciding Modes of Teaching According to the Multiple Mode Teaching Learning Pattern (MMTLP)” on 10th May 2022. Total 17 participant has successfully completed this workshop.
2. In-House workshop on “Exercise for Question Paper Analysis (Mid-term/end-term modes of evaluation)” on 10th June 2022. 2022. Total 17 participant has successfully completed this workshop.



9.Others

Poem

Life

*Of all the lives
Still dwelling in
I found mine A Lucky One.
With some drama, Hopping in
From time to time
I wasn't adamant on making it .
Until I
Reached the roads
With rails and crossing sides
I found
Lush Green Forests capped in fire which
I mistook for fireflies.
The other side wasn't my haven.
I had been given
All fruits by my side.
I live the most beautiful one
Of every time.*

Malivika Sharma
ET-4th Year

Human Souls

*Rooms weren't empty that day
They were leaving, in haste
Too soon to get away
Rangers weren't up that day
They were flying still
Up, without a trace
Running
Running
Nowhere but
Here and there. Sometimes
No one can say
What comes next
Who goes again
Without a trace
Disappearing
A mere la-di-da
End of solace*

Malivika Sharma
ET-4th Year