

Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
Laxminarayan Institute of Technology, Nagpur

REPORT OF RESEARCH ADVISORY COMMITTEE (RAC)

Mechanical Engineering

As per the RAC in the subject Mechanical Engineering held on 28/01/2023, the following student presented synopsis and presentation was found satisfactory, RAC approved their topic based on the presentation and synopsis with respective guide given in following table.

Sr. No.	Name of Student	Topic	Name of Supervisor
01	Mr. Sharad S Pawar	Design, Development and Performance Analysis of Pellets Making Machine for Agro Waste	Dr. Prashant Maheshwary

Director

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REPORT OF RESEARCH ADVISORY COMMITTEE (RAC)

Electronics Engineering

As per the RAC in the subject Electronics Engineering held on 27/01/2023, the following students presented synopsis and presentation was found satisfactory, RAC approved their topics based on the presentation and synopsis with respective guides given in following table.

Sr. No.	Name of Student	Topic	Name of Supervisor
01	Ms. Sucheta Raut	Design and Development of Cluster based Hybrid Routing Protocol for Mobile wireless sensor Network	Dr. Vivek Kapur
02	Mr. Atul Shire	Design and Implementation of Image Inpainting system	Dr. Abhay Kasestwar
03	Mr. Sachin Charbe	Design of Artificial Intelligence based system for monitoring of fruit quality	Dr. Nitin Choudhari
04	Ms. Monali Khune	Design and Implementation of Visual Brain Computer Interface System using Human Face Stimuli and Adoptive Classifier	Dr. Amol Deshmukh
05	Ms. Minakshi Dahake	Space Debris Management using Modern Wireless Communication	Dr. Rajshree Raut
06	Ms. Parvathy Kaladhar K	Performance Evaluation in Spectrum Sensing for Cognitive Radio using Machine Learning Algorithms	Dr. Rajshree Raut
07	Mr. Sunil Gupta	Object Detection and Classification of Remote Sensing Images using Deep Learning Algorithm	Dr. Amol Deshmukh (As approved by the RAC members on 22/02/2023)

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REPORT OF RESEARCH ADVISORY COMMITTEE (RAC)

Computer Science and Engineering

As per the RAC in the subject Computer Science and Engineering held on 28/01/2023, the following students presented synopsis and presentation was found satisfactory, RAC approved their topics based on the presentation and synopsis with respective guides given in following table.

S. N.	Name of Student	Topic	Name of Supervisor
01	Ms. Priti Dhanke	Proxy Re-encryption Enabled Secure and Anonymous IoT Data Shaving Plat form based on Block Chain	Dr. Latesh Malik
02	Ms. Archana Nikose	Attribute based encryption system for cloud Application	Dr. Leena Patil
03	Ms. Priyanka Padmane	An Intelligent system for Fake News Detection on Social Networks	Dr. Leena Patil
04	Mr. Virendra P Yadav	Design of an Intelligent IoMT communication Model using side chains	Dr. Prakash Prasad
05	Mr. Nikesh Aote	Modelling a security Framework for cyber physical system using Block Chain Technology	Dr. Prakash Prasad
06	Ms. Barkha Ramteke	An Intelligent System for Classification of Cotton Crop Fungal Diseases using Imaging and Environmental Data	Dr. Prakash Prasad
07	Mr. Akshat Uike	An Intelligent system for Handling Whaling Attack using Deep Learning	Dr. Prakash Prasad
08	Mr. Nilesh Sambhe	An Approach for Energy Saving in Wireless Sensor Networks	Dr. Prakash Prasad
09	Mr. Dinesh Jamthe	An Approach for Early Hearing Loss Detection using Deep Learning	Dr. Leena Patil (As approved by the RAC members on 22/02/2023)
10	Mr. Prasanna Arun Lohe	Machine Learning based Relapsed Prediction in Childhood Nephrotic Syndrome	Dr. Latesh Malik (As approved by the RAC members on 22/02/2023)
11	Ms. Gunjan J Jewani	An Approach for Context-aware Aspect based sentiment Analysis for Devanagari Script	Dr. Latesh Malik (As approved by the RAC members on 22/02/2023)

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REPORT OF RESEARCH ADVISORY COMMITTEE (RAC)

Electrical Engineering

As per the RAC in the subject Electrical Engineering held on 27/01/2023, the following students presented synopsis and presentation was found satisfactory, RAC approved their topics based on the presentation and synopsis with respective guides given in following table.

Sr. No.	Name of Student	Topic	Name of Supervisor
01	Mr. Sandeep Mude	Investigation of Regenerative Braking Performance of BLDC Motor Driven System	Dr. Jagdish Chaudhari
02	Mr. Amit Dodke	Performance Enhancement of AC-DC Converter using Adaptive Control for BLDC Drive	Dr. Jagdish Chaudhari
03	Mr. Pankaj Ramtekkar	Performance Analysis of Multilevel Inverter Fed Permanent Magnet Synchronous Motor Drive for EV Application	Dr. Jagdish Chaudhari
04	Ms. Swati Ghutke	Detection of incipient faults in transformer by dissolved gas analysis using artificial intelligence techniques	Dr. Nitin Dhote
05	Mr. Manoj Maurya	Performance evaluation of Maximum Power Point Tracking Methods for Solar Photovoltaic systems under Partial shading conditions	Dr. Nitin Dhote
06	Mr. Manish Kumar	Condition Monitoring of Induction Motor by using Artificial Intelligence Techniques	Dr. Nitin Dhote
07	Mr. Anurag Borkhade	Some Studies of Frequency Variation Analysis Due to Renewable Energy Integration in Islanded Microgrids	Dr. N D Ghawghawe
08	Mr. Sachin Raulkar	Determination of Optimal Location of FACTS DEVICE to reduce Congestion and transmission Pricing	Dr. Archana G Shirbhate

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REPORT OF RESEARCH ADVISORY COMMITTEE (RAC)

Civil Engineering

As per the RAC in the subject Civil Engineering held on 28/01/2023, the following students presented synopsis and presentation was found satisfactory, RAC approved their topics based on the presentation and synopsis with respective guides given in following table.

Sr. No.	Name of Student	Topic	Name of Supervisor
01	Preeti Morey	Experimental Investigation on Ultra Fine Pozzolanic Materials on Properties of High Strength Concrete	Dr. Abhay Shende
02	Chetna Shelke	Application of Carbon Footprint Concept in MSW management for Sustainable Climate Eco-Design	Dr. M L Meshram
03	Ravindra Kumar P Varhade	Critical Study of Major Reservoir and Development of Framework and Strategies for Flood Control	Dr. M L Meshram

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REPORT OF RESEARCH ADVISORY COMMITTEE (RAC)

Chemical Technology

As per the RAC in the subject Chemical Technology held on 30/01/2023, the following students presented synopsis and presentation was found satisfactory, RAC approved their topics based on the presentation and synopsis with respective guides given in following table.

Sr. No.	Name of Student	Topic	Name of Supervisor
01	Ms. Anjali Kurve	Optimization of Fatty Acid Methyl Ester in Jet Loop Reactor	Dr. Vinod Ganvir (Supervisor) Dr. Pradeep Shende Co-supervisor
02	Mr. Suresh Lade	Recovery of Value Added Products from Waste Engine Oil	Dr. Vinod Ganvir
03	Ms. Darshana Admane	Optimization of Novel Refractance Window Drying Technology Based Reactor and Its Application in Agriculture Products	Dr. Sneha Karadbhajane
04	Mr. Atul Amgaonkar	Economically Sustainable Solution for Conversion of Edible Oil Refinery By-products into Oleochemicals	Dr. Vijay Karadbhajane

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Chemical Engineering

As per the RAC in the subject Chemical Engineering held on 30/01/2023, the following students presented synopsis and presentation was found satisfactory, RAC approved their topics based on the presentation and synopsis with respective guides given in following table.

Sr. No.	Name of Student	Topic	Name of Supervisor
01	Mr. Shubham Balu Bonde	Investigation on value added product through treatment of pickling waste	Dr. Bharat Apparao Bhanvase
02	Mrs. Suvarna Sagar Bhoyar	Investigation on Production of Metal/Metal Oxide Nanoparticles Using Ultrasound Assisted Microreactor	Dr. Bharat Apparao Bhanvase
03	Mr. Anand Shende	Multiobjective Optimization of Distillation Column by Metaheuristic Techniques & Evolutionary Algorithms	Dr. Sanjay P. Shirsat (Guide) Dr. Pradeep G. Shende (Co-Guide)
04	Mr. Samir Wankhede	Experimental investigation on preparation of value-added products derived from waste type	Dr. Ramesh P. Birmod
05	Mr. Shrikrishna Bobde	Investigation on desulfurisation of oil generated through pyrolysis of waste tyre	Dr. Ramesh P. Birmod
06	Mrs. Snehal Deshmukh	Study of Carbon dioxide Capture by Monoethanolamines (MEA) based Nanofluids	Dr. Swarda R. Mote

Director