
THESES OF THE MONTH

SCIENCE & TECHNOLOGY

A List of doctoral theses accepted by Indian Universities (Notifications received in AIU during the month of Oct-Nov., 2018)

AGRICULTURAL & VETERINARY SCIENCES

Agricultural Engineering

1. Kaushik, Prachi. **Studies on coating and calendaring parameters for improvement of coated paper quality.** (Dr. B P Thapliyal and Dr. Sanjay Tyagi), Department of Pulp and Paper Technology, Forest Research Institute, Dehradun.

Biotechnology

1. Patel, Ankit Harishbhai. **Enhancement of nodulation efficiency of mungbean Rhizobia.** (Dr. Lalit Mahaima), Department of Plant Molecular Biology and Biotechnology, Navsari Agricultural University, Navsari.

Food Science & Technology

1. Dangi, Priya. **Isolation and functionality testing of low molecular weight glutenin subunits of Indian wheat.** (Prof. Bhupender Singh Khatkar), Department of Food Technology, Guru Jambheshwar University of Science & Technology, Hisar.

2. Manish Kumar. **Development of ohmic heating system and its application for processing of selected fruits and fruit products.** (Dr. Aradhita Ray), Department of Food Technology, Guru Jambheshwar University of Science & Technology, Hisar.

Forestry

1. Ali, Sarah Binte. **Study of impacts of urban tree cover on microclimate of Bhopal City.** (Dr. Suprava Patnaik and Dr. M D Omprakash), Department of Forest Ecology and Environment, Forest Research Institute, Dehradun.

2. Baral, Pratibha. **Utilization of banana pseudostem for specialty paper and value added by-products.** (Dr. R K Jain and Dr. A K Dixit), Department of Forest Biotechnology, Forest Research Institute, Dehradun.

3. Ghosh, Mili. **Identifying the scope of increasing the supply of timber in Central India through Trees Outside Forests (TOFS).** (Dr Bhaskar Sinha), Department of Forest Management, Forest Research Institute, Dehradun.

4. Himshikha. **Socio-economic analysis of agroforestry practices in Haridwar District of Uttarakhand.** (Dr. Charan Singh and Dr. Charan Singh), Department of Forestry Extension, Forest Research Institute, Dehradun.

5. Joshi, Bhawana. **Systematics and diversity of the family mymaridae (Hymenoptera: Chalcidoidea) in the Garhwal Region (Uttarakhand).** (Dr. Sudhir Singh), Department of Forest Entomology, Forest Research Institute, Dehradun.

6. Nirwan, Bindu. **Studies on host plant interaction, genetic diversity and development of strategy to manage diversity and development of strategy to manage *Ganoderma lucidum* (Curtis: Fr) P Karst: A wood decaying fungus of**

economically important tree species of arid and semi arid regions. (Dr. Sangeeta Singh, Dr. T S Rathore and Dr. Nepolean), Department of Forest Pathology, Forest Research Institute, Dehradun.

7. Shailendra Kumar. **Development of thermal storage system for solar timber drying.** (Dr Kishan Kumar V S), Department of Wood Science and Technology, Forest Research Institute, Dehradun.

8. Vaishnav, Vivek Kumar. **Studies on genetics structure linkage disequilibrium and marker-wood trait association in teak (*Tectona grandis* L f) of National germplasm bank Chandrapur, using microsatellite markers.** (Dr. S A Ansari), Department of Forest Genetics, Forest Research Institute, Dehradun.

BIOLOGICAL SCIENCES

Botany

1. Guntakani, Kranthikumar. **Preliminary, biochemical and molecular characterization of rhizobacterial strains isolated from root nodules of vigna trilobata (L) verde cultivars.** (Dr. M Raghu Ram), Department of Botany, Acharya Nagarjuna University, Nagarjuna Nagar.

Marine Science

1. Saritha, S. **Isolation and characterization of glycolipids from *synechocystis* sp and its cytotoxic potential against colon cancer.** (Dr. S Muraleedharan Nair), Department of Chemical Oceanography, Cochin University of Science & Technology, Kochi.

2. Varghese, Aswathy Mary. **Transcriptome dynamics of mangrovibacter sp during aerobic to anoxic transition.** (Dr. Tomas C Joseph and Dr. Lalitha K V), Central Institute of Fisheries Technology, Cochin University of Science & Technology, Kochi.

EARTH SYSTEM SCIENCES

Environmental Science

1. Sam, Lydia. **Study of dynamics in Himalayan glaciers using geospatial techniques.** (Prof. Rajesh Kumar), Department of Environmental Science, Sharda University, Greater Noida.

2. Shaktiman Singh. **Study of glacio hydrological processes.** (Prof. Rajesh Kumar), Department of Environmental Science, Sharda University, Greater Noida.

3. Chhatarpal Singh. **Impact of biochar and CSR-BIO application on methanotrophs, microbial biomass and paddy yield in saline soil.** (Dr. Jay Shankar Singh), Department of Environment Microbiology, Babasaheb Bhim Rao Ambedkar University, Lucknow.

4. Verma, Chhaya. **Remediation of cadmium contaminated soil with PGPR consortia and hyperaccumulator plants.** (Prof. Rajesh Kumar), Department of Environment Microbiology, Babasaheb Bhim Rao Ambedkar University, Lucknow.

5. Vineet Kumar. **Study of bacterial communities in two step treatment of post methanated distillery effluent by bacteria and constructed wetland plant treatment system.** (Prof. Ram Chandra), Department of Environment Microbiology, Babasaheb Bhim Rao Ambedkar University, Lucknow.

ENGINEERING SCIENCES

Architecture & Planning

1. George, Jose P. **Genesis of modern building bye-laws in vastuvidya on human habitation.** (Dr. P V Ouseph), Department of Vastuvidya, Sree Sankaracharya University of Sanskrit, Kalady, District Ernakulam.

Chemical Engineering

1. Kamble, Manisha Gunderao. **Adsorptive removal of some potent herbicides: Comparative study using Rice Husk Ash (RHA) and Bagasse Fly Ash (BFA).** (Dr. Sachin A), Department of Chemical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

2. Nishant Kumar. **Study on synthesis of nano fluids and its application in heat transfer.** (Dr. S S Sonawane), Department of Chemical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

3. Tekade, Shyam Prakashrao. **Hydrogen generation by water splitting reaction using aluminum in annular and batch reactor.** (Dr. Diwakar Z Shende), Department of Chemical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

Civil Engineering

1. Bhatkar, Tejas Prakash. **Study of geotechnical aspects on surface and subsurface excavation in different ground condition.** (Dr. Anirban Mandal), Department of Civil Engineering, Visvesvaraya National Institute of Technology, Nagpur.

2. Godse, Parimal Arun. **A comprehensive operational analysis on inter-urban roadways in mixed traffic conditions using simulation.** (Dr. V S Landge), Department of Civil Engineering, Visvesvaraya National Institute of Technology, Nagpur.

3. Gupta, Tripti Balram. **Adsorptive treatment of dye bearing waste water by using low cost adsorbent.** (Dr. Dilip H Lataye), Department of Civil Engineering, Visvesvaraya National Institute of Technology, Nagpur.

4. Jadhao, Ramrao Dhansing. **Study of leakage reduction in water distribution network through pressure management.** (Dr. Rajesh Gupta), Department of Civil Engineering, Visvesvaraya National Institute of Technology, Nagpur.

5. Rishma, C. **Impact assessment of global climate variability on hydrological parameters of Venna Basin in Central India using spatial approach.** (Dr. Y B Katpatal), Department of Civil Engineering, Visvesvaraya National Institute of Technology, Nagpur.

6. Sinha, Pramod Kumar. **Impact of climate change on water availability in reservoirs of Lebata River.** (Prof. Rajesh Kumar), Department of Civil Engineering, Sharda University, Greater Noida.

Computer Science & Engineering

1. Adane, Padma Dattatraya. **Review of provisioning techniques in cloud environment and performance**

enhancement using a flexible load prediction model. (Dr. O G Kakde), Department of Computer Science & Engineering, Visvesvaraya National Institute of Technology, Nagpur.

2. George, Thresiamma K. **Security vulnerability in on-line applications: Analysis anomaly detection and prevention of attack.** (Dr. K Poullose Jacob and Dr. Rekha K James), Department of Computer Science, Cochin University of Science & Technology, Kochi.

3. Khokher, Rohit. **Biometric identification using multiple traits.** (Prof. R C Singh), Department of Computer Science & Engineering, Sharda University, Greater Noida.

4. Madaan, Jyoti. **Development of optimized handoff decision algorithm for wireless networks.** (Dr. Indu Kashyap), Faculty of Engineering and Technology, Manav Rachna International University, Faridabad.

5. Olaleye, Solomon Babatunde. **Security issues in enhancing storage spaces of smartphones with special reference to swarm prediction approach techniques.** (Prof. Shri Kant), Department of Computer Science & Engineering, Sharda University, Greater Noida.

6. Prabhishek Singh. **To design a framework for reduction of speckle noise in synthetic aperture radar images.** (Dr. Raj Shree), Department of Information Technology, Babasaheb Bhim Rao Ambedkar University, Lucknow.

7. Raja Kumar, R. **Reducing the computational requirements of nearest neighbor classifier.** (Dr. P Viswanath and Dr. C Shoba Bindu), Department of Computer Science & Engineering, Jawaharlal Nehru Technological University Anantapur, Ananthapuramu.

8. Santosh Kumar, M B. **Development of innovative procedures for information technology articulated agriculture.** (Dr. B Kannan), Department of Computer Application, Cochin University of Science & Technology, Kochi.

9. Saxena, Swati. **An adaptive QoS-based dynamic resource management in cloud computing systems.** (Dr. Narander Kumar), Department of Computer Science, Babasaheb Bhim Rao Ambedkar University, Lucknow.

10. Tembhurne, Omprakash W. **Hyperspectral image unmixing using meta-heuristic approaches.** (Dr. Deepti Shrimankar), Department of Computer Science & Engineering, Visvesvaraya National Institute of Technology, Nagpur.

Electrical & Electronics Engineering

1. Bagde, Bhushan Y. **Transient stability constrained optimal power flow using biogeography based optimization technique.** (Dr. B S Umre), Department of Electrical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

2. Goel, Shikha. **Synthesis, characterization of natural polymer based electrolytes for electrochemical devices.** (Dr. Pradeep K Varshney), Faculty of Engineering and Technology, Manav Rachna International University, Faridabad.

3. Huchche, Vijaya Ambadas. **Modeling of induction motor: Its analysis and assessment of energy during symmetrical and unsymmetrical voltage sag.** (Dr. Anjali S Junghare and Dr. Nita R Patne), Department of Electrical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

4. Kanhav, Kaushal Arun. **Two quadrant multi-input DC-DC converter for charging energy storage sources.** (Dr. M A Chaudhari), Department of Electrical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

5. Khubalkar, Swapnil Waman. **Analysis and implementation of fractional order PID controller for linear and nonlinear systems.** (Dr. Anjali S Junghare and Dr. M V Aware), Department of Electrical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

6. Rangari, Sonali C. **Performance evaluation of five-phase induction motor drive with fault-tolerant scheme.** (Dr. H M Suryawanshi), Department of Electrical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

7. Salodkar, Prachi Abhijit. **Some studies on single-phase multilevel inverter topologies for PV application.** (Dr. P S Kulkarni), Department of Electrical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

8. Sree Latha, K. **Voltage profile improvement of grid connected wind farms using FACTS devices.** (Dr. M Vijaya Kumar), Department of Electrical Engineering, Jawaharlal Nehru Technological University Anantapur, Ananthapuram.

Electronics & Communication Engineering

1. Majumder, Alak. **Process variation aware serializer and data reconstruction architecture for e² 25 Gbit/s on-chip data links.** (Dr. Pinaki Chakraborty and Dr. Bidyut Kumar Bhattacharyya), Department of Electronics and Communication Engineering, National Institute of Technology Arunachal Pradesh, Yupia.

2. Goud, B Dodda Basavanna. **A new instrumentation system for separation and detection of RBC and WBC components in whole blood.** (Dr. K Padma Priya), Department of Electronics & Communication Engineering, Jawaharlal Nehru Technological University Anantapur, Ananthapuram.

3. Jain, Abhishek. **An improvement on salt and pepper noise removal algorithms and development of functional verification methods for image signal processing designs.** Department of Electronics & Communication Engineering, Jaypee Institute of Information Technology, Uttar Pradesh.

4. Jain, Vandana. **Design and fabrication of a low-cost open EWOD based dynamics sensing system.** (Dr. R M Patrikar), Centre for VLSI and Nanotechnology, Visvesvaraya National Institute of Technology, Nagpur.

5. Joshi, Pankaj U. **Error correction and power reduction techniques for truncated multiplier.** (Dr. R B Deshmukh), Centre for VLSI and Nanotechnology, Visvesvaraya National Institute of Technology, Nagpur.

6. Keshari, Jaishankar Prasad. **Design and analysis of microstrip antenna based on active integrated device.** (Prof. R M Mehra), Department of Electronics & Communication Engineering, Sharda University, Greater Noida.

7. Yadav, Rahis Kumar. **Modeling and simulation of dual channel dual material gate AlGaIn/GaN high electron mobility transistor (DCDMGHEMT).** (Prof. R M Mehra), Department of Electronics and Communication Engineering, Sharda University, Greater Noida.

8. Zode, Pravin P. **Side channel attack resistant architecture for elliptic curve cryptography.** (Dr. R B Deshmukh), Centre for VLSI and Nanotechnology, Visvesvaraya National Institute of Technology, Nagpur.

Information & Communication Engineering

1. Bindu. **Study of ionic behavior of ionosphere- F2 region using satellite data.** (Dr. Anupama Rajput and Dr. Dinesh Sharma), Faculty of Engineering and Technology, Manav Rachna International University, Faridabad.

2. Sreeba, Simi Zerine. **Performance and reliability enhancement techniques for two dimensional network-on-chips using adaptive deflection routers.** (Dr. Mini M G), Model Engineering College, Cochin University of Science & Technology, Kochi.

Marine Engineering

1. Satheesh Babu. **Assessment and monitoring of corrosion condition of steel ship structures.** (Dr. A Mathiazhagan), Department of Ship Technology, Cochin University of Science & Technology, Kochi.

Mechanical Engineering

1. Agrawal, Richa Sandesh. **Notch effect on low cycle fatigue life of 316 LN steel at high temperature.** (Dr. Rashmi Uddanwadikar and Dr. P M Padole), Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

2. Chaudhari, Rajesh Gangadharrao. **Kinematics and design of three degree of freedom closed chain mechanism.** (Dr. H T Thorat and Dr. H P Jawale), Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

3. Dahake, Sandeep Wasudeorao. **Customized surgical guide using layered manufacturing.** (Dr. A M Kuthe), Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

4. Deshpande, Milind Shankar. **Development calibration and testing of three axis force sensitive platform.** (Dr. H T Thorat and Dr. H P Jawale), Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

5. Deshpande, Yogesh Vasantrao. **Optimization of machining parameters for turning of Inconel 718 using cryogenically treated tools.** (Dr. A B Andhare and Dr. P M Padole), Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

6. Gupta, Vinit. **Frictional dynamics of soft and hard solid interfaces.** (Dr. Arun Kumar Singh), Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

7. Jhunjhunwala, Pooja. **Analysis of blood flow through arteries using computational fluid dynamics.** (Dr. P M Padole and Dr. S B Thombre), Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

8. Joshi, Sandeep Shrikrushna. **Experimental investigations of solar photovoltaic thermal system using different liquid spectrum filters.** (Dr. A S Dhoble), Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

9. Kulkarni, Tushar S. **Design and fabrication of low cost adaptive gripper for prosthetic hand.** (Dr. Rashmi V Uddanwadikar), Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

10. Mawale, Mahesh Bhaurao. **Design of innovative products using TRIZ and development using layered manufacturing.** (Dr. A M Kuthe), Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

11. Pungle, Ramesh G. **Position and path control of AGV by fixed sensor and controller.** (Dr. A B Andhare), Department

of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

12. Rejeesh, C R. **Investigations into chemical treatment of medium density coir fibre boards for enhancing fire retardant properties.** (Dr. K K Saju), School of Engineering, Cochin University of Science & Technology, Kochi.

13. Sane, Atul. **Experimental and finite element analysis of co-cured composite T Joint.** (Dr. P M Padole and Dr. Rashmi V Uddanwadikar), Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

14. Sapkal, Pranav S. **Rapid phototyping assisted scaffold fabrication for bone tissue regeneration.** (Dr. A M Kuthe), Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

15. Sharma, Sanjay Kumar. **Numerical and experimental study on thermal-hydraulic performance of a solar air heater: Effect of size and truncation of rib.** (Dr. Vilas R Kalamkar), Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

16. Shinde, Mahesh Sheshrao. **Critical analysis of mold with conformal cooling in injection molding.** (Dr. K M Ashtankar), Department of Mechanical Engineering, Visvesvaraya National Institute of Technology, Nagpur.

Metallurgical Engineering

1. Amit Kumar. **Microstructure and texture developments during deformation in duplex stainless steel.** (Dr. Rajesh K Khatirkar), Department of metallurgical and Materials Engineering, Visvesvaraya National Institute of Technology, Nagpur.

MATHEMATICAL SCIENCES

Mathematics

1. Boruah, Chayanika. **Contribution to Ramanujan's continued fractions, partition theory and related topics.** (Dr. Nipen Saikia), Department of Mathematics, Rajiv Gandhi University, Itanagar.

2. Garg, Amita. **Inverse problems related to partial differential equations.** (Prof. A. H. Siddiqi), Department of Mathematics, Sharda University, Greater Noida.

3. Nitendra Kumar. **Matrix techniques in data mining.** (Dr. Khursheed Alam), Department of Mathematics, Sharda University, Greater Noida.

4. Pramod Kumar. **Numerical computation of various fluid flow problems.** (Dr. Brajesh Kumar Singh), Department of Applied Mathematics, Babasaheb Bhim Rao Ambedkar University, Lucknow.

5. Puri, Manoj. **Quasi-static deformation of a layered poroelastic medium due to surface loading.** (Dr. Sunita Rani), Department of Mathematics, Guru Jambheshwar University of Science & Technology, Hisar.

6. Susheel Kumar. **Study and formulation of computer oriented mathematical model for prediction of behaviour of IT systems.** (Prof. Kuldeep Singh), Department of Mathematics, Guru Jambheshwar University of Science & Technology, Hisar.

7. Tripathi, Padmesh. **Recent developments in inverse problems with applications to signal de-noising.** (Prof. A. H. Siddiqi), Department of Mathematics, Sharda University, Greater Noida.

Statistics

1. Chandni Kumari. **On optimal sampling strategies for estimation of parameters.** (Dr. Surinder Kumar and Dr. Shashi bhushan), Department of Applied Statistics, Babasaheb Bhim Rao Ambedkar University, Lucknow.

2. Sumit Kumar. **On some aspects of ordered random variables.** (Dr. Surinder Kumar and Dr. Mohd Jahangir Sabbir Khan), Department of Applied Statistics, Babasaheb Bhim Rao Ambedkar University, Lucknow.

MEDICAL SCIENCES

Biotechnology

1. Munnum Kumari. **Identification of the disease associated sialoglycoproteins in serum samples of non-small cell lung cancer patients and study on their role in the disease process.** Department of Experimental Medicine & Biotechnology, Postgraduate Institute of Medical Education and Research, Chandigarh.

Gynaecology

1. Javed, Shifa. **Cancer stem cells in cervical carcinogenesis.** Department of Cytology and Gynecological Pathology, Postgraduate Institute of Medical Education and Research, Chandigarh.

Medicine

1. Shah, Swati Dharmesh. **Study of pre-segmental arterial pattern of human kidneys in local population.** (Dr. Bharat Trivedi), Department of Medicine, Gujarat University, Ahmedabad.

Pharmaceutical Science

1. Panda, Braja Bihari. **Development and characterization of compaction and biointerfacial behaviour of some tablet and film formulations.** (Prof. Subrata Mallick), Department of Pharmacy, Siksha O Anusandhan University, Bhubaneswar.

Radiology

1. Raizada, Milanjeet Kaur. **Clinical assessment of efficacy of omega 3 in oral submucous fibrosis patients treated with intralesional steroid and hyaluronidase therapy: A randomized controlled trial.** (Dr. D M Sable), Faculty of Dentistry, Dr D Y Patil Vidyapeeth, Pune.

PHYSICAL SCIENCES

Chemistry

1. Azad Kumar. **Preparation, properties and photocatalytic activity of some doped and undoped metal oxide nanomaterials.** (Prof. Gajanan Pandey), Department of Applied Chemistry, Babasaheb Bhim Rao Ambedkar University, Lucknow.

2. Bhattacharya, Doyel Manoj. **Study of thermo dynamic transport and acoustic properties of some pharmaceutical compounds in aqueous solutions at different temperatures.** (Dr. Sanges P Zodape), Department of Chemistry, Visvesvaraya National Institute of Technology, Nagpur.

3. Gupta, Vandana. **Removal of dyes from aqueous solution by using non-conventional adsorbents.** (Dr. Anupama Agarwal), Department of Chemistry, Sharda University, Greater Noida.

4. Jisha, K A. **Development of dendritic functionalized mesoporous silica as reusable catalyst for organic synthesis.** (Dr. Prathapan S), Department of Applied Chemistry, Cochin University of Science & Technology, Kochi.

5. Pinki. **Epoxy clay nanocomposites: Thermal behaviour and flame retardant studies.** (Prof. J B Dahiya), Department of Chemistry, Guru Jambheshwar University of Science & Technology, Hisar.

6. Suna, Padmini. **Studies on the spectral and hydrolytic behavior of substituted N- benzylideneanilines in microheterogeneous media.** (Dr. P K Mishra), Department of Chemistry, Sambalpur University, Sambalpur.

Physics

1. Chaku, Anemone Koul. **Effect of corona discharge on polycrystalline chalcogenide materials.** (Prof. Bhaskar Bhattacharya), Department of Physics, Sharda University, Greater Noida.

2. Gali, Swapna Mary. **Studies in thin films- investigations on $\text{Cu}_2\text{ZnGeSe}_4$ thin films for solar cell absorber layer.** (Dr. G Hema Chandra), Department of Physics, Visvesvaraya National Institute of Technology, Nagpur.

3. Jindal, Shikha. **Design and development of environmentally benign quantum dots based bulk heterojunction organic solar cells.** (Dr. Sushma M Giripunje), Department of Physics, Visvesvaraya National Institute of Technology, Nagpur.

4. Karade, Swapnil Sanjay. **Solution processed molybdenum based chalcogenides onto carbon nanotubes**

for supercapacitor application. (Dr. B R Sankapal), Department of Physics, Visvesvaraya National Institute of Technology, Nagpur.

5. Monika Singh. **Synthesis and characterization of nano-sized spinel and orthoferrites and their application as liquefied petroleum gas sensor.** (Dr. B C Yadav), Department of Applied Physics, Babasaheb Bhimrao Ambedkar University, Lucknow.

6. Nagapure, Dipak Ramdas. **Investigations on Cu_2ZnSe_4 and Ge-substituted $\text{Cu}_2\text{ZnSnSe}_4$ thin films for solar cell absorber layer.** (Dr. Hema Chandra), Department of Physics, Visvesvaraya National Institute of Technology, Nagpur.

7. Raut, Ashish P. **Study of the effect of gamma irradiation on the physical properties of lithium borosilicate based glasses.** (Dr. V K Deshpande), Department of Physics, Visvesvaraya National Institute of Technology, Nagpur.

8. Sekhar, B. **Investigations on transition metal ions doped CdSe nanopolymers.** (Dr. R V S S N), Department of Physics, Acharya Nagarjuna University, Nagarjuna Nagar.

Polymer Science

1. George, Neena. **Chemical recycling of PET bottle waste to terephthalic dihydrazide and its application as a versatile polymer additive.** (Dr. Thomas Kurian), Department of Polymer Science and Rubber Technology, Cochin University of Science & Technology, Kochi. □