

CRG Bulletin

Issue-2

Rabindranath Tagore University

April-2019

Core Research Group

Making things obsolete which were latest till yesterday

- **From the Director's Desk**

The debate on quality of research is now at very high pitch. There is a lot of buzz to give final shape to New Education Policy and make it a game changer to usher in an era of world quality higher education in India. The dream of establishing world class universities in India is taking shape with identification of 10 universities for special funding. RNTU is the only University which has established 7 Research Centers of Excellence with lot of funding. An independent research group CRG set up at RNTU, shows the vision and foresight of this University. In 2018 this vision has been pushed with lot of vigors which has resulted in many significant miles stones which you can see in this bulletin.

- Prof. Vijay Kant Verma

- **Research Events - 2018**

- ❑ RNTU, organised an International Conference on Water Energy Environment and Society at Tunisia in association with IRA Tunisia and A & M Texas University USA
- ❑ Dr. Shalini Yadav and Dr. SK Sharma of RNTU present research paper in Research Event organised by Imperial College London at Istanbul.
- ❑ National Conference on Material Science organised by RNTU in collaboration with NAL, ARCT, RRCAT and AMPRI.
- ❑ National Seminar on Green Jobs and Research Potential organised by RNTU collaboration with AGIS Bangaluru.
- ❑ A Science Workshop on 'Work to learn'
- ❑ Technology Transfer Camp by RNTU for Mushroom Cultivation with research based improvements.
- ❑ 'Technology and Innovation as Game Changer' – World Education summit at New Delhi coorganised by RNTU
- ❑ Start up Stand up National competition organised jointly by RNTU and CII

- **Ongoing Research Projects**
 - Indo-Taiwan Research Project funded by DST, MHRD Gol – Synthesis & Characterization of Lanthanides based phosphors for Solar Cells- Investigator Dr. Sudeshna Ray
 - Research Exchange Project KA-1 with PM University – Romania Investigator- Dr. Shalini Yadav
 - Eight Research Projects funded by CRG-PI's for these Projects- Dr. Shalini Yadav, Dr. Preeti Maheshwary, Dr. SR Awasthi, Mr. Anurag SD Rai, Ms. Reeta Pawar, Dr. Sangeeta Jauhari, Mr. Nitin Mishra, Mr. Shrikant Vaishnav and Mr. SK Sharma

- **IPR Score - 2018**
 - A Crank Less I.C. Engine 201721038460 Dr. Dinesh Kumar Soni
 - Computer Implemented Method for Semantic Indexing Based Text Classification Using Deep Learning 201911042141 Dr. Rajendra Gupta
 - System of Personalized Physical and Mental Monitoring with Using IOT Sensors Network 201911041380 Dr. Rajendra Gupta
 - Fake Data Detection System and Method 201921035659 Dr. Rajendra Gupta
 - Optimal Path Selection Method 201921035660 Dr. S Veenadhari
 - Education Management System and Method 201921035661 Dr. Pratima Gautam
 - Waste Water Treatment System 201921035662 Dr. Shalini Yadav
 - Concrete Composition And A Method Of Preparation Thereof 201921035663 Kapil Kumar Soni
 - Power Amplification System 201921035654 Dr. Reeta Pawar
 - Automatic Transformer Maintenance System 201921035655 Dr. Lalit Narayan
 - Upconversion Nanophosphor Based Photoelectrode for Dye Sensitized Solar Cell and A Method of Making Thereof 201921035656 Dr. Prachi Tadge
 - Hybrid Power Generation System 201921035657 Dr. Vinay Yadav
 - This takes the tally of RNTU patent to 19

- **Achievements/Recognition/Awards -2018**
 - RNTU was selected by Neeti Aayog Gol, for establishment of Atal Incubation Center with a funding of Rs. 10 Crore. RNTU is the only Private University in MP to get this honour.
 - CII and PhD select RNTU for launching National Start up Stand up Competition at Bangaluru and Bhopal
 - MHRD, Gol awards 'Unnat Bharat Abhiyan' to RNTU with funding of Rs. 10 Lakh
 - RNTU bags Best Innovation University Award at World Education Summit for its outstanding track record
 - Megha Parmar student of RNTU becomes first woman to Climb Everest from MP.