



राम नरेश यादव



राजभवन
भोपाल-462 052

12 जनवरी, 2016

मुझे यह जानकारी प्रसन्नता हुयी की राजीव गाँधी प्रौद्योगिकी विश्वविद्यालय भोपाल, द्वारा मासिक न्यूज़ लेटर का प्रकाशन किया जा रहा है।

विद्यार्थियों को प्रौद्योगिकी एवं तकनीकी के विषय में गुणवत्ता पूर्ण शिक्षा तथा उच्चतम ज्ञान उपलब्ध कराने के लिए न्यूज़ लेटर का प्रकाशन सराहनीय एवं प्रशंसनीय प्रयास है। मुझे आशा है की न्यूज़ लेटर में वैज्ञानिकों, प्रौद्योगिकी विशेषज्ञों द्वारा प्रस्तुत शोध और अनुसन्धान पर आधारित लेखों का प्रकाशन विद्यार्थियों के लिए मार्गदर्शक सिद्ध होगा। विश्वविद्यालय द्वारा समय समय पर आयोजित नवाचार क्रियाकलापों एवं सांस्कृतिक तथा क्रीडा प्रतियोगिताओं आदि से सम्बंधित गतिविधियों और उपलब्धियों का न्यूज़ लेटर में समावेश प्रेरणादायी सिद्ध होगा।

न्यूज़ लेटर के उद्देश्यपूर्ण प्रकाशन के लिए शुभकामनाएं।

राम नरेश यादव
(राम नरेश यादव)

उपाध्यक्ष गुप्ता
वरिष्ठ
लोक सेवा विभाग, उच्च शिक्षा



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अत्यंत हर्ष का विषय है की राजीव गाँधी प्रौद्योगिकी विश्वविद्यालय, भोपाल द्वारा मासिक “न्यूज़ लेटर” का प्रकाशन किया जा रहा है।

विगत एक दशक में तकनीकी शिक्षा के क्षेत्र में प्रदेश ने उल्लेखनीय प्रगति की है, जिसमें राजीव गाँधी प्रौद्योगिकी विश्वविद्यालय का उल्लेखनीय योगदान रहा है। मुझे पूर्ण विश्वास है की विश्वविद्यालय भविष्य में भी शिक्षा की गुणवत्ता एवं स्तर को न केवल बनाये रखेगा, अपितु और अधिक उचाई पर ले जाएगा।

आशा है कि “न्यूज़ लेटर” विश्वविद्यालय की उपलब्धियों एवं गतिविधियों को भी यथोचित रूप से रेखांकित करने में सफल होगा। “न्यूज़ लेटर” के सफल प्रकाशन के लिए मेरी और से हार्दिक बधाई एवं शुभकामनाएं।

प्रो. पीयूष त्रिवेदी
(उपाध्यक्ष गुप्ता)

VICE CHANCELLOR'S FOREWORD

Dear All,

A very Happy and Prosperous New Year 2016.

It fills me with immense joy and pleasure to share with you the inaugural issue of the University's Newsletter. Over past few years, University has achieved an illustrious growth in the fields of research, innovation, academics, administration and sports. Particularly, 2015 was a year of great achievements for the University. This was the year when the University has marked some remarkable achievements in multifarious areas. In resonance with the directives of Ministry of Human Resource & Development (MHRD) and guidelines of University Grants Commission (UGC), RGPV has become the leading University in the country to implement Choice Based Credit System (CBCS) framework for all its undergraduate courses in Engineering, Architecture and Pharmacy at such a large scale. Year 2015 ended graciously with remarkable discovery and noteworthy achievements marked by the University in the month of December which commenced with an unprecedented discovery and subsequent patent filing of novel anti-cancer molecules by Dr. C. Karthikeyan from the Pharmacy Department. The installation of the innovative Cross Linear Concentrated Solar Power (CL-CSP) project also took place in the month of December 2015.

I congratulate the RGPV family and especially the Newsletter Team for succinctly compiling and presenting the relevant information in this Newsletter.

Prof. Piyush Trivedi
Vice Chancellor, RGPV



मा. श्री उपाध्यक्ष जी गुप्ता

माननीय मंत्री तकनीकी शिक्षा एवं कौशल विभाग, उच्च शिक्षा म.प्र.

चयन आधारित क्रेडिट प्रणाली (CBCS) लागू की गयी

“मध्य प्रदेश में तकनीकी शिक्षा को नया आयाम देते हुए वर्तमान शैक्षणिक सत्र (२०१५-१६) से चयन आधारित क्रेडिट प्रणाली (CBCS) को अपने अधीनस्थ समस्त महाविद्यालयों में इतने व्यापक स्तर पर लागू करने वाला “राजीव गाँधी प्रौद्योगिकी विश्वविद्यालय” देश का अग्रणी विश्वविद्यालय बन गया है। इस प्रणाली के लागू होने से मध्य प्रदेश के २ लाख से अधिक छात्र एवं छात्राएँ लाभान्वित हुए हैं।”

IN THIS ISSUE

Contents

Messages	1
Foreword	1
Visitor of the Month	2
News Sparks	2
News from Affiliated Institutions	3
Awards & Honors	3
Activities	4
Forthcoming Event	4

Page No.

“It is the supreme art of the teacher to awaken joy in creative expression and knowledge.” -Albert Einstein

VISITOR OF THE MONTH**SRI SRI RAVISHANKAR JI MAHARAJ**

Spiritual leader and art of living group founder, Sri Sri Ravi Shankar visited University campus on 22nd November 2015 to deliver a lecture on Mind Management. During his visit, Sri Sri suggested engineering students to do meditation regularly to avoid depression and frustration. During an interaction with the students, the spiritual leader said meditation can bring in a positive change in their life. He suggested that regular meditation will help them fight any kind of stress. "It has been noticed that medical and engineering students are under high stress owing to various reasons. This can be overcome by meditation, which will help you in achieving your goals in life," he said.

**NEWS SPARKS**

A team led by RGPV's Vice-Chancellor Prof. Piyush Trivedi and his doctoral student Dr. C. Karthikeyan has marked a breakthrough research in the treatment of various kinds of un-treated cancers. This discovery is a result of indispensable efforts over a period of more than a decade by Prof. Trivedi, his team at RGPV and also in collaboration with Dr Hoyun Lee's team at Advanced Medical Research Institute,

"It is novel and unique in the sense that unlike other cancer drugs, that have major side-effects especially when one undergoes chemotherapy, this molecule targets and destroys only cancerous cells and causes no damage to other vital cells of the body" -

Prof. Piyush Trivedi, Vice Chancellor, RGPV & Principal Investigator

Canada. Unlike other drugs, which cause adverse effects and are prone to resistance development in the patients, the discovered molecules are safe and effective against multi-drug resistant cancer cells. Further studies have shown that the molecules increase the life-span of lab animals affected with the tumours. The month was exciting as US provisional patent *application no. 62/258,033* has been officially filed to protect intellectual property rights and also aid the successful translation of discovered molecules for clinical trials.

INNOVATIVE CL-CSP PROJECT INSTALLATION AT RGPV

In pursuance of a greener tomorrow, RGPV is going to install 30 kWt Cross Linear-Concentrated Solar Power (CL-CSP) plant under the R&D project sanctioned by MNRE, GoI in joint collaboration with RGPV, Indian Industry Bergen Group and Solar flame Corporation, Japan. This is a India and Japan International collaborative project to facilitate the solar energy development in India that also includes academic education, training and skill development to grow the experts and train the faculty, students and research scholars. RGPV will soon be pioneer in the World to execute CL-CSP innovative and breakthrough technology in which newly designed Heliostats with Mirror Boards



having 95% reflective efficiency and air as a heat transfer medium in the solar air receiver are being used. By this technology the temperature of air can be raised upto 600 degree C. and further this hot air can be utilized to generate steam. The construction and installation of the plant is already started and the commissioning & testing will be started from March-2016. This project is led by Prof.(Dr.) Mukesh Pandey, Dean and Head Energy Technology as a Project Investigator and the project team includes: Dr. Pankaj Jain, Er. Anurag Gour, Er. Prashant Mishra and Er. Himanshu Bora.

NEW R&D CONCEPT WITH INNOVATIVE DESIGN: DUAL ROTOR WIND TURBINE

School of Energy & Environment Management, RGPV has received a grant of Rs. 18.00 Lakhs for a AICTE,GoI funded project entitled “Enhanced Power Performance of Horizontal axis Wind Turbine (HAWT) using optimal wind turbine with dual Rotor” under Research Promotion Schemes (RPS). Principal investigator for the project is Prof.(Dr.) Mukesh Pandey, Dean & Head Energy Technology, RGPV and Co-Principal Investigator is Er. Anurag Gour, Asst. Prof, Energy Technology, RGPV. Meanwhile, a 2 kW Dual Rotor Wind Turbine is installed at Energy Park in University premises and successful field tests on this turbine are being conducted and shall be analyzed further. Theoretically, only 59.3% of total energy in column of air can be extracted. The preliminary test result shows that the power production is increased by 40 to 45% whereas conventional single rotor wind turbine converts approx. 25-29 % of power production.

AWARDS & HONORS

The Institution of Engineers IE (India) has conferred the prestigious *Pandit Madan Mohan Malviya Memorial Prize* to Prof. S.C. Choube along with Prof. L.D. Arya and Dr. Atul Kosti for their research publication titled “Static Load Model Determination Using Functional Approximation Based on Gaussian Pulses and its Comparison with ZIP Load Model”. Prof. Choube is the Head, Electrical Engineering Department of UIT RGPV and Dean Faculty of Electrical Engineering RGPV.



INDUSTRY - ACADEMIA MEET ORGANISED

Rajiv Gandhi Proudlyogiki Vishwavidyalaya and Board of Appreniceship Training (BOAT) Mumbai have collaborated to organize an ‘Industry-Academia Meet’ aiming to investigate novel ideas of joining hands with the industry. The first of its kind Meet was held at Indore on 29th October, 2015 and was attended by over 70 key representatives from industries with activities all across the country covering major sectors such as Automobile, Construction, Pharmacy, Manufacturing, and IT. The session was chaired by Hon’ble Vice Chancellor RGPV. Prof. Piyush Trivedi in the august presence of former Chairman, UPSC, Prof. D.P. Agrawal as the Chief Guest. Dr. Anil Kothari, Head, Training Placement Cell was the Chief-Coordinator for this programme.



NEWS FROM AFFILIATED INSTITUTIONS



Team FUZZ from IES College of Engineering has won the first prize in the fourth season of Jockey - a prestigious national level innovation competition organized annually by Accenture Technology Labs. The team has developed an application named SEVA, which digitizes the healthcare services in India. The winners namely Abhishek Kumar, Akash Kumar, Akash Singh and Amit Kumar got an unmatched opportunity to fly to Silicon Valley to experience the cutting-edge technologies practiced in the Accenture Technology Laboratories.



ACTIVITIES

ACADEMICS

- **Industry Forum Created:** In order to receive feedback on various issues ranging from academia to placements, an online industry forum has been created on the University Portal.

Ph.Ds Awarded:

1. Mr. Lal Jee Tiwari, "Cost Effective Technologies for Water Recharge" under the supervision of Prof. J.S. Chauhan, SATI, Vidisha
2. Mr. Ashish Manoria, "Multi Product Assembly Line Balancing Using Expert System" under the supervision of Dr. Lokesh Bajpai, Prof. & Head, DoME, SATI Vidisha
3. Mr. Bharat Chede, "Optimizing Theory of Constraints in Manufacturing by using Artificial Intelligence" under the guidance of Dr. C.K. Jain, Ex-Principal UEC, Ujjain and Dr. S.K. Jain, Registrar, RGPV Bhopal.

GRANTS RECEIVED

School of Information Technology of the University has recently bagged "Information Security Education & Awareness (ISEA) project in a special category by Ministry of Communication and Information Technology, Govt. of India. A grant of Rs. 1.11 Crore was sanctioned by the Govt. of India for this project. Principal Investigator for the project is Dr. Sanjeev Sharma and CO-PIs are Dr. Jitendra Agrawal and Dr. Nishchol Mishra.

EXAMINATION

- Unified Online Practical Examination notified
- Counselling Centres for Examination established
- Semester Examinations (Engineering, Pharmacy, Architecture, Diploma) Commenced: December 2015 was also the month of examination. Semester examinations of all undergraduate and diploma programmes conducted in Dec-2015.

FACULTY NEWS

- Prof. N.K.Jain (superannuated Professor of Pharmaceuticals, Department of Pharmaceutical Sciences, Dr. Harisingh Gour Central University, SAGAR) has joined RGPV, Bhopal as Emeritus Fellow (U.G.C.).

PUBLICATIONS

- Vandana Gupta and Piyush Trivedi. Dermal drug delivery for cutaneous malignancies: Literature at a glance. Journal of Pharmaceutical Innovation, September 2015; 10 (3) (published online DOI: 10.1007/s12247-015-9236-3).
- AC Tiwari, Mukesh Pandey, Amit Sahay, VK Sethi; A review of solar photovoltaic panel cooling systems with special reference to Ground coupled central panel cooling system (GC-CPCS), Journal of Renewable & Sustainable Energy Reviews 2015, 42, 306-312.
- Shakir Mansuri, Prashant Kesharwani, Rakesh Kumar Tekade, Narendra Kumar Jain; Lyophilized mucoadhesive-dendrimer enclosed matrix tablet for extended oral delivery of albendazole, European Journal of Pharmaceuticals and Biopharmaceutics, 2015. doi:10.1016/j.ejpb.2015.10.015
- Neha Bajwa, Neelesh Kumar Mehra, Keerti Jain & Narendra Kumar Jain; Targeted anticancer drug delivery through anthracycline antibiotic bearing functionalized quantum dots, Artificial Cells, Nanomedicine, and Biotechnology, 2015, 1-10. doi:10.3109/21691401.2015.110274
- Sharma Ankita, Goswami Soumyabrata, Rajagopalan R., and Dutt Konar Anita; Supramolecular Heterogeneity in β -turn forming synthetic peptides nucleated by isomers of fluorinated phenylalanine and Aib as corner residues, Supramolecular Chemistry, 2015, 27[10], 669 – 678. doi: 10.1080/10610278.2015.1075021

BOOK RELEASED

- Sixth edition of A TextBook of Professional Pharmacy by N.K.Jain and S.N.Sharma has been released in December 2015.

MISCELLANEOUS

- RFID System has been made functional with drop-box facility with auto-return and automatic book-issuing counter in Central Library of the University.
- In order to impart quality technical education to the remotest of areas, University has taken an initiative of setting-up two new Institutes offering diverse academic programs in distant locals of *Shahdol and Jhabua*.
- Construction of a new Sports-Complex in the University premises has begun.
- RGPV and Sapience Consulting (a Texas Instruments university program partner) have signed an MoU for training faculties and students on emerging TI technologies.
- Alembic Chemical Works Ltd., Vadodara conducted campus recruitment of Pharmacy personnel on 13th December 2015.
- The annual report for 'Spoken Tutorial Training program' run by IIT BOMBAY with RGPV, for training of over 20,000 students of RGPV's affiliated Institutions, was released in December 2015. Dr. Jitendra Agrawal was the Chief-Coordinator for this program.

EDITORIAL BOARD

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UIT/UTD's Citations (Google Scholar) upto December 2015

Department	School of Pharmacy	School of Energy	School of IT	School of Nanotech	School of Biotech	Civil	ME	EE	ET	CSE	IT	Total
No. of Citations in Google Scholar	11735	63	345	27	606	81	78	917	22	612	442	14928

FORTHCOMING EVENT

The University shall conduct the **Teachers Eligibility Test (TET) - 2016** on **21st February 2016**.

Printed and published by Prof. Aseem C. Tiwari and Mr. Ranjeet Joshi, on behalf of Rajiv Gandhi Proudyogiki Vishwavidyalaya (RGPV) Bhopal. Information for publication in the RGPV Newsletter can be e-mailed to the Editorial Board on newsletter@rgtu.net. The Newsletter shall be published on the 1st Saturday of every month and information mailed by the last day of preceeding month only shall be considered.