

NEWSLETTER

SEPTEMBER 2023

RVSCET SPARK

RVS COLLEGE OF ENGINEERING AND TECHNOLOGY JAMSHEDPUR



INTRODUCING POLYTECHNIC

Civil Engineering
Electrical Engineering
Mechanical Engineering

ENGINEERS
FOR TOMORROW,
ENGINEERED
TODAY

MESSAGES



Shri Binda Singh

(Chairman, RVS Educational Trust)

RVSCET, JSR is proud to present the college placement prospectus for the academic year 2023-2024. This prospectus showcases our students' academic and co-curricular achievements, as well as the successful placements they have secured. At this college we are dedicated to foster innovation, creativity, and excellence in our students. Our goal is to equip young engineers with top-notch technical and managerial education, preparing them to tackle the ever-increasing competition. We extend our best wishes for success and a promising future to all.



Shri Bharat Singh

(Secretary, RVS Educational Trust)

I am thrilled to announce the publication of our institution's Placement Prospectus for the academic year 2023-2024. This prospectus will greatly benefit both students and recruiters by providing insights into our Institute's achievements and facilitating professional and social networking opportunities. It is commendable that our Institute has taken this initiative to enhance student capabilities and provide necessary information and record-keeping. The dedicated team behind this effort has worked tirelessly to inspire recruiters and corporate houses to identify the most deserving candidates for their positions.



Shri Shatrughna Singh

(Treasurer, RVS Educational Trust)

RVSCET, JSR prioritizes global perspective, values, and academic excellence. Our Training and Placement Prospectus showcases performance, vision, and contributions of students and recruiters. It fosters networking, growth, and highlights our capabilities. We appreciate the dedicated team behind it, ensuring deserving candidates secure promising positions. Success awaits our students and institution.

MESSAGES



Prof. (Dr.) Rajesh Kumar Tiwari
(Principal, RVSCET Jamshedpur)

RVSCET takes great pride in unveiling the Placement Prospectus 2023-2024. Our institute has made remarkable progress in all aspects, including academics, non-academics, and capacity building for staff and students. I am confident that this prospectus will resonate positively with prestigious national companies, guiding them to identify the perfect candidates for optimal results. Congratulations to all the RVSCET family members for their exceptional contributions in achieving this feat within a record time frame.



Dr. Vikram Sharma
(Head, Training and Placement, RVSCET Jamshedpur)

Greetings from RVS College of Engineering & Technology! We cordially invite you to our esteemed Placement Program in Jamshedpur, Jharkhand. Our institution is renowned for imparting quality education, focusing on technical expertise and soft skill development, to prepare students for success in the corporate world. With a strong emphasis on values, discipline, and professional ethics, we nurture talented individuals who become future leaders and technocrats, as evident from our impressive placement records. Join us in empowering the next generation of exceptional talent and contributing to the progress of our nation.



ABOUT THE COMPUTER SCIENCE AND ENGINEERING DEPARTMENT

The Department of Computer Science & Engineering (CSE) was established in the year 2004. The Department of CSE offers courses leading to Bachelor of Technology (B.Tech), Master of Computer Application (MCA) and Master of Technology (M.Tech) in Computer Science and Engineering. The department has a very good infrastructure and highly qualified faculty to provide excellent education. The curriculum is updated regularly to keep up with the growing demands in recent changing trends of the software industry.

Undergraduate Program

The Department offers a four-year B.Tech Program in Computer Science and Engineering in eight semesters. Program is approved by the (AICTE) and Affiliated by Jharkhand University of Technology.

Postgraduate Program

The Master program offered by the Department:-
M.Tech in (Computer Science and Engineering) - 2 years: 4 semesters
MCA (Masters of Computer Application) - 2 years: 4 semesters.

Seminar/Webinar Organized

The Workshop was conducted by computer science department in topic "Internet of Things (IOT) and its Applications" on 18/11/2022 by Expert talk of Dr. Alekha Kumar Mishra, Asst. Professor, Dept. of CSE, NIT Jamshedpur.

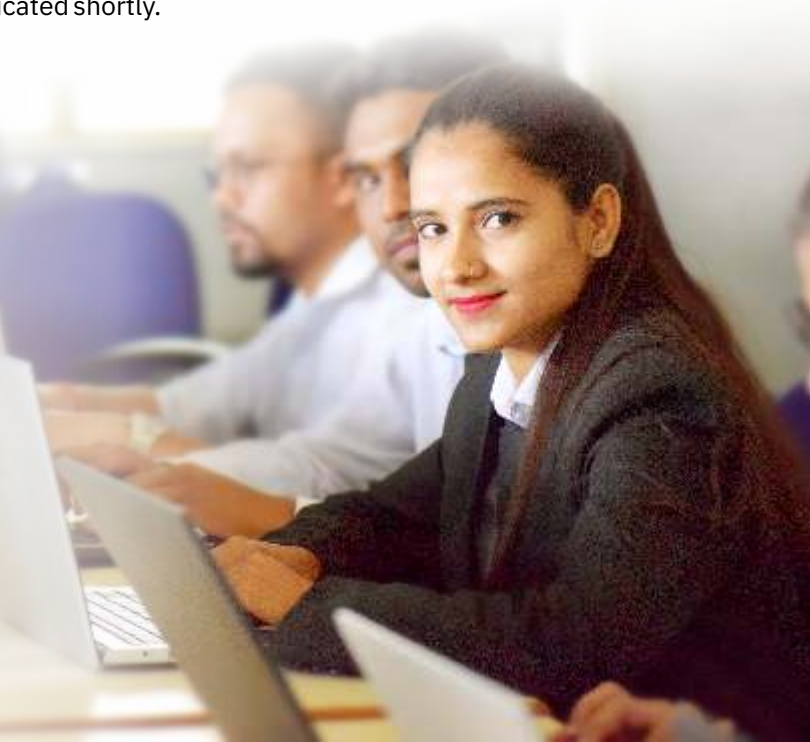


Mentorship For Nptel

Online Certification course NPTEL was conducted under the mentorship from faculties of computer science and engineering department on the subject Programming for Problem Solving (PPS) by Prof. Smita Dash, Prof. Gautam, Prof. Amod Sehwal and Prof. Namrata Kumari. The course was designed for 1st year students. Total 31 students were awarded with certificate from IIT upon successful completion of the course. Management acknowledged the achievement of all qualified students and rewarded them by reimbursing their form filling fee. Similar, courses for each year students is being planned and will be communicated shortly.

Digital Literacy Mission Program

Women Redressal Cell of RVSCET organised a 15 hours "DIGITAL LITERACY MISSION PROGRAM" under the guideline of Govt. Of India. The program is basically for Girls (ST) of Simuldanga +2 High School, Jamshedpur. The session was conducted by Prof. Smita Dash, Prof. Namrata Kumari and Prof. Ruchi Kumari at Computer Programming Lab, RVSCET. The agenda of program was to cover all the basic use of computers and its Applications in day to day life. The students get more benefit with parallel conduct of theory and practical sessions. This noble session starts and ends with the motivational speech of Honorable Treasurer Shatrughna Singh and Principal (Dr.) Prof. Rajesh Kumar Tiwari on date 05/11/22 to 16/12/22. The students also got a certificate of participation after successful completion of respective course program.



Achievements / Publication

- Prof. Jeevan Kumar and Prof. Tapan Kumar Dey has published a book chapter titled “Routing Recovery protocol for wireless Sensor Network based on PSO-ACO and neural network” in 1st edition of book “Fuzzy optimization techniques in Area of science and management”.
- Prof. Smita Dash and prof Amod Kumar Sehwal has participated in workshop for “NAAC accreditation” from 14th to 15th October'22.
- Prof. Amod Kumar Sehwal has participated and completed successfully 5 days online FDP on " from 21-11-2022 to 25-11-2022 at Sri Krishna College and Technology, Coimbatore.
- Prof. Triloki Nath has successfully completed 5 days FDP on “Recent trends of control systems and Automation” from 19-09-22 to 23-09-22 .



CIVIL ENGINEERING DEPARTMENT



Civil Engineering is an age-old profession and has been defined traditionally as “a great art, on which the wealth and the well-being of the whole society depend. It’s essential feature as distinct from science and the arts, is the exercise of imagination to fashion the products processes and people needed to create a sustainable physical and natural environment. It requires a broad understanding of scientific principles, knowledge of materials and the art of analysis and synthesis.

Achievements / Publication

Prof. Krishna Murari

- He has participated in the Seminar on “Role of Gandhian Thought in 21st Century” in March 2023 organised by the NDLI club of RVSCET, Jamshedpur, Jharkhand, India.
- He has participated in a Two day FDP program on NAAC Accreditation Organized by IQAC Cell, RVSCET Jamshedpur in October 2022 in collaboration with Vishal Technology, Odisha.
- “Preservation, Conservation & Restoration of Heritage Structures” by Er. N. K. Ojha, Green Building Consultant, GEO Designs and Research Private Limited, Vadodara & Lokpal - MGNREGA - Government of Gujarat on February 18, 2023.
- One Week National Level Short Term Training Program (STTP) on “Sustainable Construction Material & Technologies (SCMAT)”, organized by the Department of Civil Engineering, Padm. Dr. V. B. Kolte College of Engineering, Malkapur in association with IQAC Cell- VBKCOE, Malkapur, ISTE- New Delhi & IE (I) Aurangabad Local Chapter, IQAC- SGBAU, Amravati. From 20th Feb to 24th Feb 2023.
- “Glamour in Concrete” by Er. Nagesh Puttaswamy, DGM, Zonal Head WT & RMDT (South) UltraTech Cement Ltd., Bangalore on October 22, 2022.
- "Effect of Magnetic Water in Concrete" by Dr. R. Malathy, Professor & Dean (R&D), Civil Engineering, Sona College of Technology. October 8, 2022.

Prof. Gyan Shankar Sharma

- He has participated in the Seminar on “Role of Gandhian Thought in 21st Century” in March 2023 organised by the NDLI club of RVSCET, Jamshedpur, Jharkhand, India.
- He has participated in a Two day FDP program on NAAC Accreditation Organized by IQAC Cell, RVSCET Jamshedpur in October 2022 in collaboration with Vishal Technology, Odisha.

Prof. Gangesh Kumar Thakur

- He has participated in the Seminar on “Role of Gandhian Thought in 21st Century” in March 2023 organised by the NDLI club of RVSCET, Jamshedpur, Jharkhand, India.
- He has participated in a Two day FDP program on NAAC Accreditation Organized by IQAC Cell, RVSCET Jamshedpur in October 2022 in collaboration with Vishal Technology, Odisha.

Prof. Amit Prasad

- He has participated in the Seminar on “Role of Gandhian Thought in 21st Century” in March 2023 organised by the NDLI club of RVSCET, Jamshedpur, Jharkhand, India.
- He has participated in a Two day FDP program on NAAC Accreditation Organized by IQAC Cell, RVSCET Jamshedpur in October 2022 in collaboration with Vishal Technology, Odisha.

Prof. Prabhu Abhishek Panda

- He has participated in a Two day FDP program on NAAC Accreditation Organized by IQAC Cell, RVSCET Jamshedpur in October 2022 in collaboration with Vishal Technology, Odisha.
- He has participated in the Seminar on “Role of Gandhian Thought in 21st Century” in March 2023 organised by the NDLI club of RVSCET, Jamshedpur, Jharkhand, India.

- He has participated in a Three days National Workshop on “Exploring The Utility for Bibliometric Analysis for Writing Research Paper” Organised by H.R.D. Centre, F.M. University, Balasore, Odisha.
- He has published a book chapter on “Pre-Monsoon Ground Water Quality Assessment of Ghatagaon Block, Kendujhar District, Odisha, India, using IDW interpolation method”, ISBN 978-93-5813-109-3 in VISTAS IN GEOLOGICAL RESEARCH (Special publication in Geology(19), March 2023, pp. 148-157) Published by Department of Geology Utkal University Alumni association.

Prof. Rajesh Kumar Paswan

- He has participated in a Two day FDP program on NAAC Accreditation Organized by IQAC Cell, RVSCET Jamshedpur in October 2022 in collaboration with Vishal Technology, Odisha.
- He has participated in the national seminar on “Potential Role of UAV towards Environmental Sustainability” in Decemebr 2022 in the school of Geography G.M. University, Sambalpur, Odisha, India.
- He has participated in a Five day FDP program on “Emerging Trends Innovation and Research in Civil Engineering in September 2022 organised by C.I.T., Ranchi, Jharkhand.
- He has participated in a Five day FDP program on “Green Technology for Sustainable Environment in September 2022 organised by Sarla Birla University, Ranchi, Jharkhand.
- He has participated in the Seminar on “Role of Gandhian Thought in 21st Century” in March 2023 organized by the NDLI club of RVSCET, Jamshedpur, Jharkhand, India.

Prof. Ahamad Isar Makhdoomi

- He has participated in a Two day FDP program on NAAC Accreditation Organized by IQAC Cell, RVSCET Jamshedpur in October 2022 in collaboration with Vishal Technology, Odisha.

Prof. Manish Kumar

- He has published a paper on “Sustainable Urban Environment by using Transit Oriented Development: A case study in Bodhgaya, Bihar, India” in JETIR, Volume 09 Issue 06, June 2022, ISSN: 2349-5162.
- He has published a paper on “Effect of Mixed Traffic on Saturation Flow at Signalized Intersection in Sub-urban Area: A Case Study” in JETIR, Volume 09 Issue 08, August 2022, ISSN: 2349-5162.
- He has participated in a Two day FDP program on NAAC Accreditation Organized by IQAC Cell, RVSCET Jamshedpur in October 2022 in collaboration with Vishal Technology, Odisha.
- He has participated in the Seminar on “Role of Gandhian Thought in 21st Century” in March 2023 organised by the NDLI club of RVSCET, Jamshedpur, Jharkhand, India.



Seminar / Webinar / Expert Talk And Activities Organized:



Mr. Rajesh Rajak, Executive Engineer, Road Construction Department, Jharkhand has delivered an expert session on “Pradhan Mantri Gram Sadak Yojna” in October 2022.

Dr. Kaushlendra Kumar, Joint Director, BIS, Jamshedpur, Jharkhand had delivered an expert session on “ Indian Standards and its utility in the day to day life” on 15th October 2022 in which a door to door campaign survey was carried out to aware the local population for which all the participants got Rs 1000/- as remuneration.



Dr. S. K. Verma, Director BIS, Jamshedpur, Jharkhand had delivered an expert session on “Bureau of Indian Standards Day and Public Awareness” also inaugurated a 3km. Quality run in the Jublee Park, Jamshedpur.

Industrial Visit

Dr. Kaushlendra Kumar, Joint Director, BIS, Jamshedpur, Jharkhand had delivered an expert session on “ Indian Standards and its utility in the day to day life” on 15th October 2022 in which a door to door campaign survey was carried out to aware the local population for which all the participants got Rs 1000/- as remuneration.



IIT Kharagpur Success: The students of 3rd Semester had participated in the Tech fest “Megalith 2023”, organised by Dept. Of Civil engineering, IIT Kharagpur in the Mentorship of Prof Ahmad Isar Makhdoomi, Where they secured 1st position in following events:

- BEAT D EUCLID won by Kusum Agarwal
- CRIAR won by Harsh Pandey & group
- Photography

Kolhan University Gold Medal:

MD. Shahimul Haq batch of 2017-21 Student of Dept. Of Civil Engg., RVSCET will be awarded GOLD MEDAL by “KOLHAN UNIVERSITY” for securing top spot in the University Final Exams.



ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT

Electronic and Communication Engineering (ECE) is a branch of engineering that deals with the design, development, and testing of electronic devices, circuits, and communication systems.

This field involves the use of electrical and electronic components to transmit and receive information, signals, and data. Some of the core subjects studied in ECE include digital electronics, analog electronics, communication systems, control systems, signal processing, microelectronics, electromagnetic theory, and power electronics.

Publications

International Journal Publication

1. Mahanty, S., Kumar, A. Implementation of all-optical 4 bit binary to gray code converter based on cross-phase modulation effect in a phase shifted fiber Bragg grating. *Opt Quant Electron* 54, 601 (2022). <https://doi.org/10.1007/s11082-022-03980-6>. <https://doi.org/10.1007/s11082-022-03980-6> (SCI)
2. Mandal, Santimoy, De, Arnab and Ghosh, Chandan Kumar. "Design and performance analysis of a compact, wideband dual polarized antenna for WLAN & WiMAX applications" *Frequenz*, vol. 77, no. 1-2, 2023, pp. 95-106. <https://doi.org/10.1515/freq-2021-0298>. (SCI).
3. Swati Bhattacharjee, Santimoy Mandal, Chandan Kumar Ghosh and Soumen Banerjee, Senior Member, IEEE. (Oct-2022). "Reduction of Mutual Coupling and Cross-Polarization of Microstrip MIMO Antenna using Electromagnetic Soft Surface (EMSS)". In *Radio Science journal* (Wiley). <https://doi.org/10.1029/2021RS007377>. (SCI).
4. Santimoy Mandal and Chandan Kumar Ghosh. (2022) "Design and Analysis of a Coupled-Feed, Reconfigurable Antenna for 4G LTE Communication System" Communicated in *International Journal of Microwave and Wireless Technologies*, Cambridge University Press. (SCI).

International Conferences Publication

1. Mahanty, S., Choudhary, R., Kumari, N., Kumar, A., & Kumari, D. (2022, February). New all-optical gray code converter circuit using nonlinear switching techniques based micro-ring resonator. In 2021 4th International Conference on Recent Trends in Computer Science and Technology (ICRTCST) (pp. 440-444). IEEE.
2. Kumar, N., Choudhary, R., Mahanty, S., & Kumar, A. (2022, February). Implementation of All Optical 3 Bit Synchronous UP Counter using Micro Ring Resonator Structure. In 2021 4th International Conference on Recent Trends in Computer Science and Technology (ICRTCST) (pp. 451-455). IEEE.

Book Chapter publications

1. Mandal Santimoy, Ghosh C.K. "Design of Wideband Dual-Polarized Antenna for LTE Application". In: Dahal K., Giri D., Neogy S., Dutta S., Kumar S. (eds) *Internet of Things and Its Applications. Lecture Notes in Electrical Engineering*, vol 825. Springer, Singapore. ISBN: 9789811676369. https://doi.org/10.1007/978-981-16-7637-6_29
2. Mandal Santimoy, Ghosh C.K. "Reduction of the Mutual Coupling in Patch Antenna Arrays Based on Dollar Shaped Electrical Resonator". In: Kundu S., Acharya U., De C., Mukherjee S. (eds) *Proceedings of the 2nd International Conference on Communication, Devices and Computing. Lecture Notes in Electrical Engineering*, vol 602. Springer, Singapore. ISBN: 9789811508288. https://doi.org/10.1007/978-981-15-0829-5_7.
3. Mandal Santimoy, Ghosh C.K. (Nov-2022). "Design and Analysis of a Compact Rectangular sector UWB (Ultra-wideband) Antenna for Wireless Communication Applications". in *IEEE MESIICON 2022 at Dr. B.C. ROY Engineering College, Durgapur*. Already presented and accepted for Publication.
4. Santimoy Mandal, Chandan Kr. Ghosh. "Mutual Coupling Reduction in a Patch Antenna Array using Microstrip Resonator for Wireless Communication System Applications", CRC Press (Taylor & Francis), Accepted for Publication.

Journal Reviewer

1. *Journal of Geophysical Research*, 2022 (American Geophysical Union (Washington, DC, US)), (Wiley) (SCI).
2. *Radio Science*, AGU 2022 (ADVANCING EARTH AND SPACE SCIENCE), (Wiley), (SCI).



Faculty Development Program

Sushanta Mahanty

01. Attended the five days short-term course on Applications of Power Electronics in Renewable Energy Systems (APERES-2022) held on 18th - 22nd July 2022 organized by the Department of Electrical Engineering, National Institute of Technology Jamshedpur, India and sponsored by the National Mission on Power Electronics Technology (NaMPET), Ministry of Electronics and Information Technology (MeitY), Government of India.
02. Participated in One Week Virtual Faculty Development Program on "CONTEMPORARY TECHNIQUES IN ELECTRONICS AND COMMUNICATIONS ENGINEERING" organized by Department of Electronics & Communications Engineering, Sree Rama Engineering College, Tirupathi From 20th June 2022 To 25th June 2022
03. Participated in One Week Workshop in Electronic Circuit and PCB Designing (ECPCD-2022), organized by Dept. of E.C.E and Dept. of E.E, K.K. Polytechnic, Dhanbad, India from 26-30th September, 2022
04. Participated and completed with score of Grade A in the 5 days (19/09/2022 to 3/09/2022) online Faculty Development Program on Recent Trends of Control Systems and Automation organized by Dept. of Electrical and Electronics Engineering.

Paper Reviewer

Sushanta Mahanty

01. Review one paper for the 4th International Conference on the theme "Recent Trends in Computer Science and Technology - (ICRTCST 2021)", which was held on 11th-12th February, 2022, and was organized by the Department of Computer Science and Engineering (CSE) of R.V. S. College of Engineering and Technology, Jamshedpur, Jharkhand.
02. Review one paper SPRINGER – 1ST International Conference on the theme "Artificial Intelligence and Internet of Things" (ICAII-2022),

Activities Organized

01. Five days value added course on emerging real time devices for future IOT applications 29th November to 3rd December 2022.



Prof. Rajesh Kumar Singh (Associate Professor) from University College of Engineering & Technology, Hazaribagh delivers expert talk on recent developments in the area of VLSI Design.

ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

“Develop skilled engineers to meet industry needs and thereby develop responsible citizens for our country and society”

The Department of Electrical & Electronics Engineering has nine faculty members who pursued their UG, PG and Doctoral degrees from top-notch universities. The faculty members are consistently performing well in teaching and research. Faculty members and students frequently publish articles and book chapters of their outstanding research contributions in their respective fields.

The placement record of the department has always been impressive. Almost 90% of the students secure job from the campus placement and many of them are recruited in core companies. We encourage our students to carry out industry based projects during their B.Tech career. The School has state-of-the art laboratories in almost all the areas of Electrical, Electronics and Instrumentation Engineering. The School has the latest simulation tools to cater various specializations and is equipped with facilities for measurement, characterization and synthesis of experimental as well as theoretical results.

Publications

Journals

- Gopal Chandra Mahato, Soumya Ranjan Biswal, Tanmoy Roy Choudhury, Byamakesh Nayak, Subhendu Bikash Santra, “Review of active power control techniques considering the impact of MPPT and FPPT during high PV penetration,” *Solar Energy*, Volume 251, 2023, Pages 404-419, ISSN 0038-092X, <https://doi.org/10.1016/j.solener.2023.01.035>.
- Sharat Chandra Mahto, Sandip Ghosh, Shyam Kamal, R. K. Saket “Event Triggered Control of Linear System with Commensurate delay” in *International Journal of Control, Automation and Systems*, Vol: 21, Issue: 1, page: 221-230, January 23.
- Neelbrata Roy, Anindita Sengupta, Ashoke Sutradhar, “An Optimal dead time compensation design for non-square process with disturbance rejection”, *Journal of circuit, systems and computer*, Vol: 31, Issue: 18, December 22.
- Neelbrata Roy, Anindita Sengupta, Ashoke Sutradhar, “An Evolutionary optimization based design of Smith delay compensator for cascade control of MIMO time delay”, *Industrial Process*, Vol: 26, Issue: 18, September 22.
- Shalini Kumari, Sumit Kumar Singh, Anand Mohan, Deepak Kumar, Shashi Prakash, “Automation Plant Irrigation System”, *Journal of emerging technologies and Innovative Research*, ISSN:234-5162, Volume 9, Issue 3, March 2022.
- Anand Mohan, Sumit Kumar Singh, Shalini Kumari, Deepak Kumar, Shashi Prakash, “Solar Energy charger and auto focussing”, *Journal of emerging technologies and Innovative Research*, ISSN:234-5162, Volume 9, Issue 3, March 2022.

Conferences

- G. C. Mahato, T. R. Choudhury, B. Nayak, S. R. Biswal and R. Dash, "Sensorless FPPT Tracking Mechanism based on Forecasting Data," 2022 1st IEEE International Conference on Industrial Electronics: Developments & Applications (ICIDeA), Bhubaneswar, India, 2022, pp. 187-191, doi: 10.1109/ICIDeA53933.2022.9970068.
- S. R. Biswal, T. R. Choudhury, B. Panda, G. C. Mahato and N. Dash, "Optimal Battery Utilization Based on Weather Forecasting Data Leading to DSI," 2022 1st IEEE International Conference on Industrial Electronics: Developments & Applications (ICIDeA), Bhubaneswar, India, 2022, pp. 192-197, doi: 10.1109/ICIDeA53933.2022.9970022.
- G. C. Mahato, T. R. Choudhury, B. Nayak and S. R. Biswal, "A Novel Approach to Implement FPPT Considering Load side Coordination Control," 2022 IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE), Trivandrum, India, 2022, pp. 1-6, doi: 10.1109/PESGRE52268.2022.9715850.



Faculty Development Program

Sharat Chandra Mahto

01. An online short term “Applications of Power Electronics in Renewable Energy Systems” held on 18th -22nd July 2022 at NIT, Jamshedpur
02. Online FDP on “Recent Trends of Control Systems and Automation” organized by Dept. of Electrical and Electronics Engineering., RTCIT, Ranchi from 19/09/23-23/09/23
03. Attended SERB(Scientific & Engineering Research Board), India funded workshop on “Control of wind energy generation system” at IIT BHU Varanasi from 22-02-2023 to 24-02-2023.

Thakur Pranav Kumar Gautam

04. Online FDP on “Recent Trends of Control Systems and Automation” organized by Dept. of Electrical and Electronics Engineering, RTCIT, Ranchi from 19/09/23-23/09/23
05. One Week Online FDP on “Smart Grid: Challenges and Opportunities” organized by EE Dept., Ashoka Institute of Technology & Management, Varanasi from 20/02/23 to 24/02/23
06. An online short term “Applications of Power Electronics in Renewable Energy Systems” held on 18th -22nd July 2022 at NIT, Jamshedpur.

Gopal Chandra Mahato

07. Five days AICTE Sponsored Short-Term Training Program on “Smart Grids & Power System” during 21-25 March 2022 at NIT, Meghalaya, Shillong, India.
08. An online short term “Applications of Power Electronics in Renewable Energy Systems” held on 18th -22nd July 2022 at NIT, Jamshedpur.
09. Online FDP on “Recent Trends of Control Systems and Automation” organized by Dept. of Electrical and Electronics Engineering., RTCIT, Ranchi from 19/09/23-23/09/23.
10. One Week Online FDP on “Smart Grid: Challenges and Opportunities” organized by EE Dept., Ashoka Institute of Technology & Management, Varanasi from 20/02/23 to 24/02/23.

Shashi Prakash

11. Online FDP on “Recent Trends of Control Systems and Automation” organized by Dept. of Electrical and Electronics Engineering, RTCIT, Ranchi from 19/09/23-23/09/23.
12. One Week Online FDP on “Smart Grid: Challenges and Opportunities” organized by EE Dept., Ashoka Institute of Technology & Management, Varanasi from 20/02/23 to 24/02/23.
13. An online short term “Applications of Power Electronics in Renewable Energy Systems” held on 18th -22nd July 2022 at NIT, Jamshedpur.

Abhilash Ghosh

14. Online FDP on “Recent Trends of Control Systems and Automation” organized by Dept. of Electrical and Electronics Engineering, RTCIT, Ranchi from 19/09/23-23/09/23.
15. One Week Online FDP on “Smart Grid: Challenges and Opportunities” organized by EE Dept., Ashoka Institute of Technology & Management, Varanasi from 20/02/23 to 24/02/23.
16. An online short term “Applications of Power Electronics in Renewable Energy Systems” held on 18th -22nd July 2022 at NIT, Jamshedpur.

Neelbrata Roy

17. Online FDP on “Recent Trends of Control Systems and Automation” organized by Dept. of Electrical and Electronics Engineering, RTCIT, Ranchi from 19/09/23-23/09/23.

Navneet Keshav

18. Online FDP on “Recent Trends of Control Systems and Automation” organized by Dept. of Electrical and Electronics Engineering, RTCIT, Ranchi from 19/09/23-23/09/23.
19. An online short term “Applications of Power Electronics in Renewable Energy Systems” held on 18th - 22nd July 2022 at NIT, Jamshedpur.
20. FDP on NAAC Accreditation dated 14-15th Oct., 2022



Reviewer of Journal/Conferences

Gopal Chandra Mahato

- 1.Reviewer of ODIOCON-2022
- 2.Reviewer of ICRTEC-2023

Dr. Sharat Chandra Mahto

1. Review contributed to the journal System & Control Letters, Elsevier in March 2022.
2. Serving as a reviewer for “IET Communication, Wiley” in March 2022.

Activities Organized



1. Five day workshop on “IOT and Embedded System (ITES 2022)” has been organized in the Department in association with “NEOTECHNIQ Engineering Pvt. Ltd. from 28th Nov to 2nd December 2022. The focus of the workshop will range from the fundamental principles of IOT & Embedded Systems.



The Electrical & Electronics Department of RVSCET, Jamshedpur organised an one day industrial visiting at Triveni Earthmover Pvt. Ltd., Jamshedpur on 7th January 2023 for the students of 3rd and 5th semesters from Electrical and Electronic engineering (EEE) department. The students were expertly guided and mentored by HR of Thriveni rebuilt centre. They gained knowledge about different types of earthmoving machines.



Prof. Rakesh Kumar singh from University College of Engineering & Technology, Hazaribagh delivers expert talk on recent developments in the area of Power electronics devices and its control. Generally power electronics deals with controlling the flow of electrical energy- which is rated at a power level rather than a signal level. The control of energy can be done with the help of solid-state-electronic switches and other control systems.

MECHANICAL ENGINEERING DEPARTMENT

Mechanical Engineering is one of the most diverse and primitive branch of engineering. It involves design, manufacturing of machines and mechanical systems. Besides this, Mechanical Engineering touches virtually every aspect of modern life and Mechanical Engineers has tremendous scope in automobile, Aerospace, Steel Industries, Power sector, Manufacturing sectors, Petroleum and Marine Industry. It remained always in demand and continues to be so in future.

The department has 11 faculty members. Three faculty members are Phd from reputed universities and three faculty members are pursuing Phd degree from reputed NITs. The placement record of the department has always been excellent. Almost 80% of the students have been placed in reputed companies.

Achievements / Publications

Prof. (Dr.) Sanatan Prasad

- Prof. (Dr.) Sanatan Prasad, Associate Professor, has been awarded Doctorate Degree in the month of September 2022 from Birla Institute of Technology, Mesra, Ranchi, for his research work in the field of Heat & Mass Transfer Titled “Mathematical Modeling for unsteady Axi-symmetric Freezing & Melting of Bath Materials onto a low melting Temperature cylindrical solid Additive”.

Prof. (Dr) S. Sikdar

- He is one of the members in the editorial board of “Exploratory Materials Science Research”, India.

Prof. Shailandra Kumar Prasad

- He has published a paper on “Advances in Hybrid Energy system: Modern development toward green energy initiatives.” in European Chemical Bulletin, Volume 12, Issue 2, January 2023, ISSN: 2063-5346.
- He has also published a paper on “Heat transfer analysis and optimization of engine fins of varying geometry and thermal conductivity” in IJESR, Volume 10 Issue 12, December 2022, ISSN: 2347-6532.
- He has published a book on “Helical baffle shell and tube heat exchanger’s thermal hydraulic characteristics” in Book River Publications, November 2022, ISBN: 978-93-5515-596-2.
- He has participated in a Two day FDP program on NAAC Accreditation Organized by IQAC Cell, RVSCET Jamshedpur in collaboration with Vishal Technology, Odisha.

Prof. Amit Kumar Sinha

- He has Published a paper on “Analysis of high temperature natural convection in open vertical tubes with volumetric heat generation” in IJCRT, volume 11 Issue 2, February 2023, ISSN:2320-2882
- He has also published a paper on “Analysis of Solar Water Heater efficiency with baffled pipe and smooth pipe” in IJCRT, Volume 11 Issue 2, February 2023, ISSN: 2320-2882.

Prof. Prakash Kumar

- He has published a paper on “Analysis of Solar Water Heater efficiency with baffled pipe and smooth pipe” in IJCRT, Volume 11 Issue 2, February 2023, ISSN: 2320-2882.
- He has also Published a paper on “Analysis of high temperature natural convection in open vertical tubes with volumetric heat generation” in IJCRT, volume 11 Issue 2, February 2023, ISSN:2320-2882

Prof. Sonali Nag

- She has participated in a Two day FDP program on NAAC Accreditation Organized by IQAC Cell, RVSCET Jamshedpur in collaboration with Vishal Technology, Odisha.

Prof. Satyendra Kumar Prasad

- He has participated in a Two day FDP program on NAAC Accreditation Organized by IQAC Cell, RVSCET Jamshedpur in collaboration with Vishal Technology, Odisha.



Seminar/webinar Organized

- Mr. Vishal Kumar, GM-HSE, Apraava Energy Private Limited has delivered an expert session on “Safety at Work” on 23rd July 2022.
- Dr. Shubham Tripathi, Assistant Professor, Department of P & IE, NIT Jamshedpur has delivered an expert session on “Designing a Supply Chain” on 26th November 2022.
- Mr. Sanjay Kumar, Training Manager, Energy Swaraj Foundation has delivered an expert session on “Training on Energy Literacy” on 14th December 2023.

Industrial Visit

The Department of Mechanical Engineering organized an industrial visit for the students of the 5th semesters at RSB Transmission Limited, Jamshedpur on 11th November 2022. RSB Transmissions Ltd is a fast growing global engineering organization with business interest ranging from design to manufacturing of aggregates and systems related to commercial vehicles, passenger cars, construction and farm equipment. The Company offers propeller shafts, axles, transmission components, aluminum castings, ferrous castings, running gear systems, trailers, and construction equipment aggregates. During the visit Students observed the manufacturing process of Transmission Components.

Participation in a competition “Poster Presentation on Metals & Alloys” at CSIR-NML, Jamshedpur

Students of Mechanical Engineering & Civil Engineering of RVSCET participated in “Poster Presentation on Metals & Alloys” at CSIR-NML, Jamshedpur on 28th April, 2023. Also Faculties of RVSCET participated in Academia meet organised by CSIR-NML, Jamshedpur. In this Academia meet famous & renowned scientists, Professors and research scholars shared their views. Principal of RVSCET Jamshedpur was invited as a special guest in this academia meet, where he shared his thoughts about the role of advanced technologies in country’s growth.

DEPARTMENT OF SCIENCE AND HUMANITIES - AN OVERVIEW

The Department of Science and Humanities at RVS College of Engineering and Technology was established in 2004, encompassing Applied Physics, Applied Chemistry, Applied Mathematics, and Communicative English with a language lab. Its mission is to deliver transformative education, emphasizing the enduring goal of cultivating cultured and useful engineers. The department, serving as the core of RVSCET education, is dedicated to preparing students as thoughtful technocrats aware of institutional needs. With a focus on lifelong learning, independent thinking, and societal betterment, the department fosters a supportive learning environment. Regular professional development programs, including AICTE-initiated Student Induction Program (SIP) and informal meetings like "Koffee with Parents," contribute to student and faculty welfare.

Academic contribution/accomplishment of the members of the faculty of the Department of Science & Humanities of the current year (2022-2023)

Dr. Surya Bahadur (Expertise-Engineering Mathematics)

- Published a Research Paper entitled "Modelling and interpretation of Peristaltic Transport of Eyring-Powell Fluid through uniform/non-uniform channel with joule heating and wall flexibility in Chinese Journal of Physics-Elsivier, 80(2022)167-182

Dr. Vikram Sharma (Expertise - Applied Chemistry)

- Examined and evaluated the Ph.D thesis of a Research Scholar of Centurion University, Odisha in 2022
- POMs: A Novel Molecule for Industrial Waste Treatment Technologies

Dr. S.P. Singh (Expertise - Engineering Physics)

- Published research paper entitled "Study of Frequency control Over Loss of Wave Energy passing Through Microstrip line Transmission Structure", IEEE, DOI- 10.1109/ICRTCST, 54752.2022.9781909.
- Participated in the five days International FDP on "Smart Materials for New Technology " organized by St. Mary's College, Thoothukudi, Tamilnadu, from 18-23rd Feb, 2022

Dr. Rekha Tiwary (Expertise - Engineering Mathematics)

- Participated at the International Virtual Conference on "Progress in Mathematics" towards industrial application (PMTIA-2022)" organized by the Department of Mathematics, SRMIST, Ramapuram, Chennai.
- Participated in the "Seminar on Algebraic Graph Theory" organized by the Division of Mathematics, School of Advanced Science, 2022, VIT, Chennai.

Dr. Sudhir Jha (Expertise - Communicative English, Business Communication & Linguistics)

- Participated as the "Resource Person" at the invitation in the three day international Seminar organized by ISDR, Ranchi held from March 26 to March 28, 2022.
- Published a book chapter on "Pollution and its effect on life on Earth" in Covid-19 and Environmental Issue" 2022(First Edition)New Delhi Educational Book Service, ISBN: 979-93-93469-00-7.(ed.).

Dr. Subrato Mahato (Expertise - Applied Chemistry/Environment & Ecology)

- Invited as an Esteemed Judge for the Annual Exhibition (Art &Science) on 4th February, 2023 at RVS Academy, Jamshedpur.

Prof. A.N. Dutta (Expertise - Communicative English, Business Communication & Soft Skills)

- Assigned as a Subject Expert in the Interview Panel of BBA Course under JUT, Ranchi at RVS College of Engineering & Technology, Jamshedpur on 13th March, 2022
- Invited as an Esteemed Judge for the Annual Exhibition (Art &Science) on 4th February, 2023 at RVS Academy, Jamshedpur.
- Attended two days Faculty Development Programme on NAAC Accreditation on 14.10.2022 & 15.10.2022 in Collaboration with IQAC at RVS College of Engineering & Technology, Jamshedpur.

Dr. D.K. Haldar (Expertise - Engineering Physics)

- Invited as an Esteemed Judge for the Annual Exhibition (Art &Science) on 4th February, 2023 at RVS Academy, Jamshedpur.



Dr. Rahidas Kumar (Expertise - Engineering Mathematics)

- Completed Online Course of Nodule-2 of Professional Ethics and Sustainability from NITTR through AICTE, July 2022.
- Participated in the International Virtual Workshop on “Applied Mathematics” organized by the Department of Mathematics, SRMIST, Ramapuram, Chennai from 06.02.2023 to 08.02.2023

Prof. Puja Dutta (Expertise - Engineering Mathematics)

- Qualified in the NPTEL Online Course on “Advance Engineering Mathematics” July-October 2022, IIT, Roorkee.
- Participated in the International Virtual Workshop on “Applied Mathematics” organized by the Department of Mathematics, SRMIST, Ramapuram, Chennai from 06.02.2023 to 08.02.2023.

Prof. Gauri Shankar Paul (Expertise - Communicative English, Literature & Linguistics)

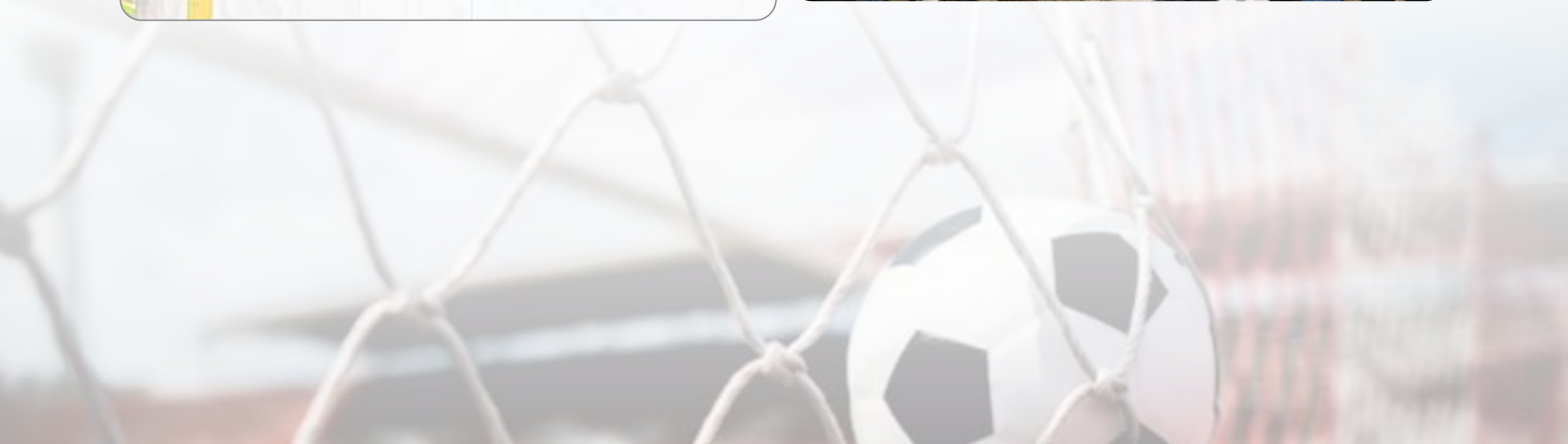
- Published a research paper entitled “Practice Communication Skills in Teaching and Learning English” in the International Journal of Innovative Research in Technology.

FROLIC 2023 (SPORTS MEET)



INTER DEPARTMENTAL SPORTS MEET 2022

The annual inter departmental sports meet “Frolic” was held with thrill and enthusiasm from 21st December 2022 to 23rd December 2022. The students of the various departments of RVSCET, Jamshedpur participated in 12 events. After a stiff competition the overall winners for this year’s Frolic were “Team Logical” that is Computer Science Engineering Department. The chief guest for the event was Shri Prabhat Kumar, Senior Superintendent of Police, Jamshedpur.



LIBRARY ORIENTATION PROGRAMME

Library orientation programs introduce new students to the library and helps to create awareness of library policies, services, rules its resources. At the beginning of the academic year 2022-2023, two-phase library orientation was carried out for all the students by Ms Jaimala Dhruva Sundi, Assistant Librarian. Primarily, lecture method with power point presentation was used for the orientation, during the Induction program for the newly admitted students, at the Institute Auditorium. Secondly in order to make all the students familiar with the different sections of the library and to give them hands-on practice on the OPAC, a library tour was also organized. Orientation programs often include a tour of the library, which helps new students become familiar with the layout of the building and its various sections. Further orientation sessions for the use of National Digital Library (NDL) were also conducted for the 1st year students. The orientation sessions provided an overview of the NDLI platform and its benefits to members, as well as the various activities that are conducted under the club.

National Digital Library Club (NDLI Club)

RVSCET Digital Library Club (NDLI Club) was established in the year 2021 with the aim of promoting digital literacy and facilitating access to digital resources. The club is led by the following NDLI Club authority:

- Club Patron : Prof. (Dr) R. N. Gupta, Director.
- Club President : Dr. Rajesh Kumar Tiwari, Principal.
- Club Secretary : Ms. Jaimala Dhruva Sundi, Assistant Librarian.
- Club Executive Member : Mr. Sourabh Singh, Assistant Professor, CSE Deptt.

The club has seen a significant increase in membership over the past year. The NDLI Club has a total of 581 members.

One of the key activities of the NDLI Club is to organize guest lectures on a regular basis. These lectures are delivered by experts in various fields, who share their knowledge and expertise with the members. The lectures cover a wide range of topics, including digital literacy, new technologies, career guidance, and more.

Name of the Event	Resource Person	Date/Time	Venue	No of Participants
Open Access: Information Sources & Services	Mr. Munesh Kumar, NIT, Jamshedpur	23/01/2023 2.15 pm to 3.45 pm	B4 Building, Institute Auditorium	176
Role of Gandhian Thought in 21st Century	Dr. Manish Kumar Jha, Asst. Professor, Deptt. of HSSM, NIT, Jamshedpur	11/03/2023 2.15 pm to 3.45 pm	B4 Building, Institute Auditorium	104
Book Review competition-2023	-----	08/05/2023 9.00am to 9.00 pm	-----	Participation:125 Review Submission: 25

In addition to guest lectures, the NDLI Club also organizes workshops, seminars, Quiz, Debate, Story Telling, Book Review, and other events, to enhance the members learning experience. The club also provides access to a vast collection of digital resources, including books, articles, videos, and more, through the NDLI platform.

Book Exhibition

In addition to guest lectures, the NDLI Club also organizes workshops, seminars, Quiz, Debate, Story Telling, Book Review, and other events, to enhance the members learning experience. The club also provides access to a vast collection of digital resources, including books, articles, videos, and more, through the NDLI platform.

Best Library User Award

The Best Library User Award was instituted to recognize and appreciate the efforts of students who make optimal use of the library resources. The library plays an essential role in the academic life of students, and this award aims to encourage and motivate students to develop a reading habit and utilize the library resources to the fullest.

LIBRARY ORIENTATION PROGRAMME



A committee was formed consisting of Prof. (Dr) Sanatan Prasad, IQAC Member Secretary, Ms Jaimala Dhruva Sundi, Assistant Librarian, Dr. S.P. Singh, P/I Library to evaluate the students and select the Best Library User Award-2022.

After a comprehensive evaluation of the students, on the following parameters: Frequency of library visits, Utilization of library resources, Quality of books borrowed and read and discipline maintained in the library.

The following are the winners of the “**Best Library User Award-2022**” from the 2021-2025 & 2022-2026 batch:

Batch 2021-2025

Name of the Students	Roll No
Mr. Ayush Pallaw	CSE/053/21
Ms. Shivani Singh	CSE/114/21

Batch 2022-2026

Name of the Students	Roll No
Mr. Rohan Kar	CSE/131/22
Ms. Y. Bhawana	ECE/218/22

Such activities deserve recognition and will encourage and motivate all students to strive for excellence in all aspects of their academic and personal lives.

TRAINING AND PLACEMENT DEPARTMENT



R. V. S. College of Engineering and Technology, Jamshedpur in association with Jharkhand University of Technology, Ranchi is organized a conclave on "**National Education Policy (NEP-2020)**" on 8th July, 2022 at R.V.S. College of Engineering and Technology, Jamshedpur campus. The chief guest was Shri Ramesh Bias, Honourable Governor of Jharkhand. The eminent speakers for the occasion were several Vice Chancellors and Directors from different esteemed universities and institutes of our country.

A one day “**Industrial Academia Meet**” was organized on 27th August, 2022. The objective of this meet was to reduce the gap between academia and industry and generate an employable workforce. To grace the occasion with their esteemed presence were our chief guest, Mr. S K Behera, Vice-Chairman and Managing director, RSB global, Guest of honour, Mr Siddharth Rai, Additional director, STPI, Ranchi and Special guest, Mr K Chandramouli, Additional Director, BOPT, Eastern Region, Kolkata, along with respected management members of RVSCET. An integral part of our meeting was leading HR professionals and technocrats of various domains, who shared their valuable thoughts with us.



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