खम्मा घणी...!!

भारतीय प्रौद्योगिकी संस्थान जोधपुर

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Khamma Ghani...!!

Indian Institute of Technology Jodhpur

आरम्भ!!

वर्ष 2017 का दूसरा पहर संस्थान के लिए चुनौतियों के साथ साथ उपलब्धि पूर्ण रहा। इस दौरान संस्थान अपने स्थाई परिसर में स्थानांतरित हुआ। समस्त शैक्षणिक कार्यक्रम संस्थान के स्थाई परिसर में सफलतापूर्वक क्रियान्वित किए गए। इस अवधि के दौरान संकाय सदस्यों द्वारा प्रस्तावित 8 नए प्रायोजित अनुसंधान परियोजनाओं को स्वीकृति भी मिली तथा संकाय सदस्यों द्वारा लिखे गए 66 शोध पत्र विभिन्न प्रतिष्ठित जर्नल एवं अन्य प्रकाशनों में प्रकाशित हुए। संस्थान ने 06 संकाय सदस्य, 02 प्रशासनिक एवं 02 तकनीकी सदस्यों को परिवार में जोड़ा। संस्थान में राष्ट्रीय महत्व के कार्यक्रमों का आयोजन किया गया। राष्ट्र प्रेम की भावना से ओत–प्रोत होते हुए संस्थान में स्वतंत्रता दिवस का आयोजन किया गया। संस्थान में इस शैक्षणिक सत्र से केंद्रीय विद्यालय शुरु हुआ है जिसमें संस्थान के संकाय, एवं गैर–संकाय सदस्यों के बच्चों के साथ आस पास के ग्रामीण बच्चे भी गुणवत्ता पूर्ण शिक्षा ले रहे हैं। संस्थान के फेस 2 विकास का कार्य मेसर्स टाटा इन्फ्रा द्वारा शुरु किया जा चुका है।

भारतीय प्रोद्योगिकी संस्थान जोधपुर अपने स्थाई परिसर में स्थानांतिरत होने के उपरांत उच्च तकनीकी शिक्षा एवं शोध के क्षेत्र में नई ऊचांइयों को छूने का प्रयास करेगा।

क्षेमा प्रकाश (संपादक)

BIG NEWS

IIT Jodhpur moves into its Permanent Campus

The much awaited movement of IIT Jodhpur into its sprawling Permanent Campus located on NH 65, Nagaur Road, Karwar (Village), Jodhpur (City) took place during May – June 2017. By shifting its entire academic activities to its Permanent Campus, the Institute crossed a major milestone. This new campus has been planned meticulously and envisioned to stand as a symbol of academics – simple, but deep. More importantly, it will be an international exemplar of sustainability with strategies for ensuring NET ZERO ENERGY, WATER and WASTE. The other salient features of the Permanent Campus are:

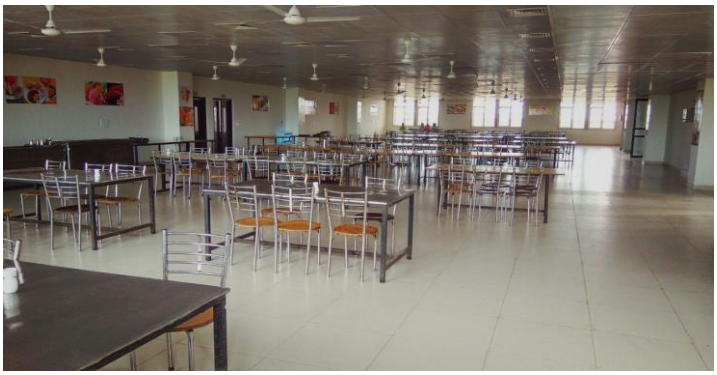
(1) Walking campus, which is pedestrian oriented and bicycle dominant;
(2) Learning facilitated anywhere, anytime with wireless ICT backbone (including Multi-media enabled learning spaces with flexible, shared public spaces);
(3) Thermally comfortable smart buildings with GRIHA 4/5 star compliant buildings and GRIHA LD benchmark campus (including dense desert settlement morphology, low height buildings (up to a maximum of 3 storeys) built with low embodied energy materials, and improved local and traditional methods);
(4) Plantation with native species, soil stabilization, protection from dusty wind to arrest erosion, desertification, and building-up soil moisture over time;
(5) Rain water harvesting, and water reduction and sewage recycling, together greening the site over time; and
(6) Segregated wastes and customized recycling.

The movement started with the Faculty Members and Officers migrating to the newly constructed quarters in the Park Avenue area of the Permanent Campus, and Students into the Hostels. It was followed by establishment of a Primary Health Center in one of the housing blocks, in collaboration with Jodhpur City based M/s. Goyal Hospital & Research Center. Also, the Primary Health Center in the Permanent Campus of IIT Jodhpur received ISO 9001 Certification. Basic services like the groceries, dining and food court, bank, stationery, laundry, beauty parlour and salon services were soon started in the Community Center in Jaisalmer Club towards southern side of the Permanent Campus. A Kendriya Vidyalaya started in October 2017. Currently, the school has students studying in classes 1 thru 8. It is housed in the First Building of IIT Jodhpur, for the time being. Subsequently, it will move into its own building during Phase 2 of the construction. There is dedicated bus service that caters to the IIT Jodhpur Community Members for commuting to and from Jodhpur City. The photographs in the pages to follow give a glimpse of the Permanent Campus of IIT Jodhpur.

A view of the Main Building of IIT Jodhpur and the adjoining berms

Department Buildings of IIT Jodhpur: A view from hostels

Blue 1: Boys Hostel, IIT Jodhpur



Dining Hall

Dusky view of *The Learning Hub*: IIT Jodhpur Library

A view of *Park Avenue*: Faculty & Officers Housing during the hailstorm season

ISO Certified Primary Health Center

Shopping Center in the Community Center, Jaisalmer Club

Orientation Program 2017 at Permanent Campus

Student Activity @ Lecture Hall Complex

Registration Session of Post Graduate Students at Permanent Campus

INSTITUTE EVENTS

71st Independence Day Celebration

The 71st Independence Day of the Nation was celebrated by Members of IIT Jodhpur, on 15 August 2017 at the First Building of the Permanent Campus in Karwad Village. The Director hoisted the National Flag, and the National Anthem was patriotically sung by all present.

Flag Hosting by Director IIT Jodhpur on 15 August 2017

Faculty and Staff Members participated in Independence Day Celebration

Cultural Program by IIT Jodhpur Students on 15 August 2017

Birth Anniversary of Sardar Vallabhbhai Patel Celebrated at IITechnology Jodhpur

Birth Anniversary of Sardar Vallabhbhai Patel also known as *The Unifier of India,* was celebrated in the Institute on 31 October 2017. A five-kilometer *Run for Unity* was organized for the residents on this occassion. The Faculty Members, Staff Members, their family members and Students took active part in this activity. Thereafter, a pledge taking ceremony was organized for employees of IIT Jodhpur.

Flagging off of the *Run for Unity* by Director, IIT Jodhpur

Distribution of Prizes to participants of *Run for Unity*

Vigilance Awareness Week 2017 Observed at Indian Institute of Technology Jodhpur

Vigilance Awareness Week 2017 was celebrated in Indian Institute of Technology Jodhpur as per CVC guidelines from 30 October 2017 to 4 November 2017. The Pledge of Integrity was administered by Director, IIT Jodhpur in the presence of Professor Gaurav Harit, Chief Vigilance Officer of the Institute for all Faculty and Staff Members on 30 October 2017.

A lecture by Shri Akhil Saxena, Principal, Regional Training Center, Intelligence Bureau was organized on 01 November 2017 at the IIT Jodhpur. All Faculty Members, Students and Staff Members attended the lecture and appreciated it. Essay Writing and Presentation competitions on the topic *Role of Technology in Eradicating Corruption*, was organized by the Chief Vigilance Officer on 02 November 2017 in the Institute for all residents. Also, an elocution competition on the theme *My Vision – Corruption Free India*, was organized by the Chief Vigilance Officer on 03 November 2017 in the Institute. In these competitions the participants expressed their thoughts and ideas to make India free of corruption.

The pledge of Integrity administered by the Director, IIT Jodhpur

Essay Writing and Presentation competitions

As a part of Vigilance Awareness Week Program, Advisor (Administration) administering Integrity Pledge to the Students of Kendriya Vidyalaya IIT Jodhpur

Celebration of Children's Day

The Cultural and Literary Society, Students Gymkhana, and Student Counseling Services of IIT Jodhpur organized a musical night on the occasion of Children's Day on 14 November 2017. The Faculty Members and Staff Members along with their family members were invited to attend and participate in the program. Wards of Faculty Members and Staff Members actively took part in the musical program.

Wards of IIT Jodhpur Employees rendering a song on the occasion

Ankita Sharma, Chairperson, Student Counseling Service, addressing the audience

ACADEMICS

IIT Jodhpur rolls out new academic programs: M.Tech. (Bioscience & Bioengineering)

From July 2017, IIT Jodhpur had rolled out new academic programs, namely M.Tech. (Bioscience & Bioengineering) initially with 15 seats. The program is aimed at developing trained manpower with an understanding and appreciation of biological complexities, and the know-how to manipulate the same to develop technological solutions for diverse applications, including but not restricted to: disease therapeutics, biomaterials, bioinformatics and microbial engineering.

Ph.D. Thesis Defense

The following six students of IIT Jodhpur successfully defended their Ph.D. Theses in these six months.

S. No.	Name of the Student	Title of Thesis	Supervisor	Department	Date of Defense
1.	Deepak Bharti	Small Molecule Based Solution Processed Organic Field-Effect Transistors and Applications	Shree Prakash Tiwari	Electrical Engineering	9 August 2017
2.	Sapana Ranwa	RF Sputtered ZnO Nanorods based Hydrozen Sensor	Mahesh Kumar	Electrical Engineering	14 August 2017
3.	Poonam Sharma	Supported Chiral Platinum Nanoparticles for Asymmetric Catalysis	Rakesh Kumar Sharma	Chemistry	15 September 2017
4.	Shejale Kiran Prakash	Close Shell Metal Oxides for Solar Cell and Water Treatment Application	Rakesh Kumar Sharma	Chemistry	19 September 2017
5.	Surendra Singh Barala	Effects of High Energy Radiation on Perovskite Oxides for Voltage Tunable Applications	Mahesh Kumar	Electrical Engineering	6 October 20-17
6.	Kriti Dubey	Biophysical Approach to Develop Inhibitors against Protein aggregation	Karunakar Kar	Biology	6 November 2017

New Research Projects

Arun Kumar Singh, Assistant Professor, Department of Electrical Engineering, has been sanctioned the sponsored research project *"Design and development of NavIC Receiver"* by Ministry of Electronics & Information Technology (MeitY), Government of India. The duration of the project is 3 years (2017-20).

Samanwita Pal, Assistant Professor, Department of Chemistry, has been sanctioned the sponsored research project *"Solid state Nuclear Magnetic Resonance (NMR) assessment of zinc oxide (ZnO) nanomaterial based drug delivery systems"* by Science and Engineering Research Board, Government of India. The duration of the project is 3 years (2017-20). Ambesh Dixit, Assistant Professor, Department of Physics is the Co-Investigator in this project.

Soumava Mukherjee, Assistant Professor, Department of Electrical Engineering, has been sanctioned the sponsored research project *"Substate Integated Coaxial Line (SICL) based Circuits and Systems for millimeter wave application"* by Department of Science and Technology, Government of India. The duration of the project is 3 years (2017-20).

Sushmita Jha, Assistant Professor, Department of Bioscience and Bioengineering has been sanctioned the sponsored research project *"Expression analysis of inflammasome-forming NLRs in gliomas for identification of novel therapeutic interventions"* by Department of Biotechnology, Government of India. The duration of the project is 3 years (2017-20)."

Ramesh K. Metre, Assistant Professor, Department of Chemistry has been sanctioned the sponsored research project *"New Single Source Precursors for Potential Nanostructured Bi2Te3/sb2Te3 System Based Thermoelectric Materials"* by Science and Engineering Research Board, Government of India. The duration of the project is 3 years (2017-20).

Gaurav Harit, Assistant Professor, Department of Computer Science and Engineering has been sanctioned the sponsored research *project "Information Access from Document Images of Indian Languages"* by Ministry of Human Resource Development & Ministry of Electrical & Information Technology, Government of India. The duration of the project is 3 years (2017-20).

Mahesh Kumar, Assistant Professor, Department of Electrical Engineering has been sanctioned the sponsored research project *"Design and Development of Tunable RF Filters based on Ferroelectric Thin Films by Sputtering"* by Defence Research and Development Organization, Government of India. The duration of the project is 2 years (2017-19).

Public Outreach Grant

Vidya Sarveswaran, Assistant Professor, Department of Humanities & Social Sciences, was awarded The Public Outreach Grant from the Deutsches Museum and the Rachel Carson Center for Environment and Society, Munich. Commencing June 2017, the grant period is for a period of two years, till May 2019.

Research Publications

Department of Bioscience and Bioengineering

Journal Articles

1. Arora,N., Tripathi,S., Kumar,P., Mondal,P., **Mishra,A.,** & Prasad,A. (2017). Recent advancements and new perspectives in animal models for Neurocysticercosis immunopathogenesis. Parasite Immunology, 39(7), e12439. ISSN: 1365-3024. https://doi.org/10.1111/pim.12439
2. Ali,M., Pandey,R.K., Khatoon,N., Narula,A., **Mishra,A.,** & Prajapati, V. K. (2017). Exploring dengue genome to construct a multi-epitope based subunit vaccine by utilizing immunoinformatics approach to battle against dengue infection. *Scientific Reports*, 7(1), 9232. ISSN: 2045-2322. https://doi.org/10.1038/s41598-017-09199-w
3. Amanullah,A., Upadhyay,A., Joshi,V., Mishra,R., Jana,N.R., & **Mishra,A.K.** (2017). Progressing neurobiological strategies against proteostasis failure: challenges in neurodegeneration. *Progress in Neurobiology*. 159, 1-38. ISSN: 0301-0082. https://doi.org/10.1016/j.pneurobio.2017.08.005
4. Joshi,V., Upadhyay,A., Kumar,A., & **Mishra,A.K.** (2017). Gp78 E3 ubiquitin ligase: essential functions and contributions in proteostasis. *Frontiers in Cellular Neuroscience*, *11*. ISSN: 1662-5102. https://doi.org/10.3389/fncel.2017.00259

Conference Papers

1. **Paul,S.**, & Talbar,S. (2017). Machine Learning Approach for Identification of miRNA-mRNA Regulatory Modules in Ovarian Cancer. In *Pattern Recognition and Machine Intelligence* (pp. 438–447). Kolkata, India: Springer, Cham. ISBN: 978-3-319-69900-4. https://doi.org/10.1007/978-3-319-69900-4_56

Book Chapters

1. **Paul,S.** (2017). Integration of Gene Expression and Ontology for Clustering Functionally Similar Genes. In Polkowski L. et al. (Eds.), *Rough Sets* (pp. 587–598). Springer, Cham. ISBN: 978-3-319-60837-2. https://doi.org/10.1007/978-3-319-60837-2_47

Department of Chemistry

Journal Articles

1. Ahmed,S., Pramanik,B., Sankar,K.N.A., Srivastava,A., Singha,N., Dowari,P., Srivastava,A., Mohanta,K., **Debnath,A.** & Das,D. (2017). Solvent assisted tuning of morphology of a peptide-perylenediimide conjugate: helical fibers to nano-rings and their differential semiconductivity. *Scientific Reports*, *7*(1), 9485. ISSN: 2045-2322. https://doi.org/10.1038/s41598-017-09730-z
2. Godara,S., Verma,P., & **Paranjothy,M.** (2017). Dissociation chemistry of 3-oxetanone in the gas phase. *The Journal of Physical Chemistry A*. 121 (36), 6679–6686. ISSN: 1089-5639. https://doi.org/10.1021/acs.jpca.7b06880
3. Jia,Z.-J., Merten,C., Knauer,L., **Murarka,S.,** Strohmann,C., & Waldmann,H. (2017). Biology-oriented synthesis of decahydro-4,8-epoxyazulene scaffolds. *Synlett, 28(20), 2918-2922*. ISSN: 1437-2096. https://doi.org/10.1055/s-0036-1588558
4. Padmapriya,S., Harinipriya,S., Sudha,V., Kumar,D., **Pal,S**., & Chaubey,B. (2017). Polyaniline coated copper for hydrogen storage and evolution in alkaline medium. *International Journal of Hydrogen Energy*. 42(32), 20453-20462. ISSN: 0360-3199. https://doi.org/10.1016/j.ijhydene.2017.06.204
5. Bahuguna,G., Janu,V.C., Uniyal,V., Kambhala,N., Angappane,S., **Sharma,R.K.,** & **Gupta,R.** (2017). Electrophilic fluorination of α-Fe2O3 nanostructures and influence on magnetic properties. *Materials & Design*, *135*(Supplement C), 84–91. ISSN: 0264-1275. https://doi.org/10.1016/j.matdes.2017.09.012
6. Krishnan,Y., Vincent,A., & **Paranjothy,M.** (2017). Classical dynamics simulations of interstellar glycine formation via CH2=NH+CO+H2OCH2=NH+CO+H2O reaction. *Journal of Chemical Sciences*, *129*(10), 1571–1577. ISSN: 0973-7103. https://doi.org/10.1007/s12039-017-1367-2
7. Ram,P., Singhal,R., & **Sharma,R.K.** (2017). Preliminary study of dysprosium doped LiMn2O4 spinel cathode materials. *Materials Today: Proceedings*, *4*(9), 9365–9370. ISSN: 2214-7853. https://doi.org/10.1016/j.matpr.2017.06.186
8. Ram,P., Singhal,R., Choudhary,G., & **Sharma,R.K.** (2017). On the key role of Dy3+ in spinel LiMn2O4 cathodes for Li-ion rechargeable batteries. *Journal of Electroanalytical Chemistry*, *802*(Supplement C), 94–99. ISSN: 1572-6657. https://doi.org/10.1016/j.jelechem.2017.08.052

Department of Computer Science and Engineering

Conference Papers

1. Vyas,A., Gaikwad,S., **Chattopadhyay,C.** (2017) A Graphical Model for Football Story Snippet Synthesis from Large Scale Commentary. In: Shankar B., Ghosh K., Mandal D., Ray S., Zhang D., Pal S. (eds) *Pattern Recognition and Machine Intelligence. PReMI 2017.* Lecture Notes in Computer Science, Vol 10597. Springer, Cham. eISBN: 978-3-319-69900-4. https://doi.org/10.1007/978-3-319-69900-4_61

Book Chapters

1. **Banik,A.**, Panolan,F., Raman,V., Sahlot,V., & Saurabh,S. (2017). Parameterized Complexity of Geometric Covering Problems Having Conflicts. In Ellen,F., Kolokolova,A., Sack JR. (Eds.), *Algorithms and Data Structures* (pp. 61–72). Springer, Cham. ISBN: 978-3-319-62127-2. https://doi.org/10.1007/978-3-319-62127-2

Preprint

1. Patil,S. M., Nigam,A., Bhavsar,A., & **Chattopadhyay,C.** (2017). Siamese LSTM based Fiber Structural Similarity Network (FS2Net) for Rotation Invariant Brain Tractography Segmentation. *ArXiv:1712.09792 [Cs]*. http://arxiv.org/abs/1712.09792

Department of Electrical Engineering

Journal Articles

1. Bharti,D., Raghuwanshi,V., Varun,I., Mahato,A.K., & **Tiwari,S.P.** (2017). Effect of UV irradiation on solution processed low voltage flexible organic field-effect transistors. *Superlattices and Microstructures, 109, 538-544*. ISSN: 0749-6036. https://doi.org/10.1016/j.spmi.2017.05.041
2. Mahela,O.P., & **Shaik,A.G.** (2017). Recognition of Power Quality Disturbances Using S-Transform Based Ruled Decision Tree and Fuzzy C-Means Clustering Classifiers. *Applied Soft Computing, 59, 243-257*. ISSN: 1568-4946. https://doi.org/10.1016/j.asoc.2017.05.061
3. Tripathi,S., Mohan,A., & **Yadav,S.** (2017). A compact frequency-reconfigurable fractal UWB antenna using reconfigurable ground plane. *Microwave and Optical Technology Letters*, *59*(8), 1800–1808. ISSN: 1098-2760. https://doi.org/10.1002/mop.30631
4. Jajoo,G., Kumar,Y., **Yadav,S.K.,** Adhikari,B., & Kumar,A. (2017). Blind signal modulation recognition through clustering analysis of constellation signature. *Expert Systems with Applications*, *90*, 13–22. ISSN: 0957-4174. https://doi.org/10.1016/j.eswa.2017.07.053
5. Bharti,D., Raghuwanshi,V., Varun,I., Mahato,A. K., & **Tiwari,S. P.** (2017). Directional solvent vapor annealing for crystal alignment in solution processed organic semiconductors. *ACS Applied Materials & Interfaces, 9 (31), 26226–26233*. ISSN: 1944-8244. https://doi.org/10.1021/acsami.7b03432
6. Kumar,M., Kumar,R., Rajamani,S., Ranwa, S., Fanetti,M., Valant,M., & **Kumar,M.** (2017). Efficient room-temperature hydrogen sensor based on UV-activated ZnO nano-network. *Nanotechnology, 28(36), 365502*. ISSN: 1361-6528. https://doi.org/10.1088/1361-6528/aa7cad
7. Varun,I., Bharti,D., Raghuwanshi,V., & **Tiwari,S.P.** (2017). Multi-temperature deposition scheme for improved resistive switching behavior of Ti/AlOx/Ti MIM structure. *Solid State Ionics*, *309*, 86–91. ISSN: 0167-2738. https://doi.org/10.1016/j.ssi.2017.07.013
8. Barala,S.S., Bhati,V.S., & **Kumar,M.** (2017). High energy photon induced Fermi-level shift of Ba0.5Sr0.5TiO3 thin films. *Thin Solid Films*, *639*, 107–112. ISSN: 0040-6090. https://doi.org/10.1016/j.tsf.2017.08.041

9. Jain,P.K., & **Tiwari,A.K.** (2017). An adaptive thresholding method for the wavelet based denoising of phonocardiogram signal. *Biomedical Signal Processing and Control*, *38*, 388–399. ISSN: 1746-8094. https://doi.org/10.1016/j.bspc.2017.07.002
10. Korolev,D.S., Nikolskaya,A.A., Krivulin,N.O., Belov,A.I., Mikhaylov,A.N., Pavlov,D.A., Tetelbaum,D.I., Sobolev,N.A. & **Kumar,M.** (2017). Formation of hexagonal 9R silicon polytype by ion implantation. *Technical Physics Letters*, *43*(8), 767–769. ISSN: 1090-6533. https://doi.org/10.1134/S1063785017080211
11. Kumar,M., Bhati,V.S., & **Kumar,M.** (2017). Effect of Schottky barrier height on hydrogen gas sensitivity of metal/TiO2 nanoplates. *International Journal of Hydrogen Energy, 42(34), 22082-22089*. ISSN: 0360-3199. https://doi.org/10.1016/j.ijhydene.2017.07.144
12. Nigam,A., Bhat,T.N., Rajamani,S., Dolmanan,S.B., Tripathy,S., & **Kumar,M**. (2017). Effect of self-heating on electrical characteristics of AlGaN/ GaN HEMT on Si (111) substrate. *AIP Advances*, *7*(8), 085015. ISSN: 2158-3226. https://doi.org/10.1063/1.4990868
13. Tripathi,S., Mohan,A., & **Yadav,S.K.** (2017). A Compact MIMO/Diversity Antenna with WLAN Band-Notch Characteristics for Portable UWB Applications. Progress In Electromagnetics Research C, 77, 29–38. ISSN: 1937-8718. https://www.jpier.org/PIERC/pier.php?paper=17042002
14. Samant,A., **Yadav,S.K., Badarla,V**., & Mishra,S. (2017). A cross layer protocol to mitigate effects of radio's linear impairments. *International Journal of Information and Communication Technology*, *11*(2), 202-221. ISSN: 1741-8070. https://doi.org/10.1504/IJICT.2017.086247
15. Agrawal,A.V., Kumar,R., Venkatesan,S., Zakhidov,A., Zhu,Z., Bao,J., **Kumar,M.** & Kumar,M. (2017). Fast detection and low power hydrogen sensor using edge-oriented vertically aligned 3-D network of MoS2 flakes at room temperature. *Applied Physics Letters*, *111*(9), 093102. ISSN: 0003-6951. https://doi.org/10.1063/1.5000825
16. Hojamberdiev,M., Kawashima,K., **Kumar,M.,** Yamakata,A., Yubuta,K., Gurlo,A., Hasegawa,M., Domen,K. & Teshima,K. (2017). Engaging the flux-grown La1–xSrxFe1–yTiyO3 crystals in visible-light-driven photocatalytic hydrogen generation. *International Journal of Hydrogen Energy, 42(44), 27024-27033*. ISSN: 0360-3199. https://doi.org/10.1016/j.ijhydene.2017.09.036
17. **Chouhan,R.**, Jha,R.K., & Biswas,P.K. (2017). Hybrid Domain Analysis of Noise-Aided Contrast Enhancement Using Stochastic Resonance. *Journal of Signal Processing Systems*, *89*(2), 243–262. ISSN: 1939-8115. https://doi.org/10.1007/s11265-016-1190-x
18. Kumar,R., Goel,N., & **Kumar,M.** (2017). UV-Activated MoS2 Based Fast and Reversible NO2 Sensor at Room Temperature. *ACS Sensors, 2(11), 1744-1752*. ISSN: 2379-3694. https://doi.org/10.1021/acssensors.7b00731

Conference Papers

1. Yadav,Y.K., Jajoo,G., & **Yadav, S.K.** (2017). Modulation scheme detection of blind signal using constellation graphical representation. In *2017 International Conference on Computer, Communications and Electronics (Comptelix)* (pp. 231–235). ISBN: 978-1-5090-4708-6. https://doi.org/10.1109/COMPTELIX.2017.8003970
2. Joshi,V., Shankar,B., **Tiwari,S.P.**, & Shrivastava,M. (2017). Dependence of avalanche breakdown on surface buffer traps in AlGaN/GaN HEMTs. In *2017 International Conference on Simulation of Semiconductor Processes and Devices (SISPAD)* (pp. 109–112). Kamakura, Japan: IEEE. ISBN: 978-4-86348-610-2. https://doi.org/10.23919/SISPAD.2017.8085276
3. **Mukherjee,S.,** & Biswas,A. (2017). Design of dual-frequency HMSIW cavity antenna for Ka band application. In *2017 IEEE International Symposium on Antennas and Propagation USNC/URSI National Radio Science Meeting* (pp. 2487–2488). San Diego, CA, USA. ISBN: 978-1-5386-3284-0. https://doi.org/10.1109/APUSNCURSINRSM.2017.8073286
4. **Mukherjee,S.** (2017). Design of compact Ka- band chipless identification tag using HMSIW cavity resonator. *In 2017 IEEE Asia Pacific Microwave Conference (APMC)* (pp. 694-697). Kuala Lumpur, Malaysia. ISBN: 978-1-5386-0640-7. https://doi.org/10.1109/APMC.2017.8251541

Book Chapters

1. Shiblee,M., **Yadav,S.K.**, & Chandra,B. (2017). *Fault Diagnosis of Internal Combustion Engine Using Empirical Mode Decomposition and Artificial Neural Networks.* In Huang,D.S., Hussain,A., Han,K., Gromiha,M. (Eds.), *Intelligent Computing Methodologies* (pp. 188–199). Springer, Cham. ISBN: 978-3-319-63315-2. https://doi.org/10.1007/978-3-319-63315-2_17

Department of Humanities and Social Sciences

Book Chapters

1. **Sarveswaran,V.** (2017). *The Ground of Our Being: Dear Governor Cuomo as a Planetary Narrative.* In R. K. Alex, S. S. Deborah, R. Cheruvalath, & G. Prakash (Eds.), Ecocultural-Ethics-Critical-Essays (pp. 109–118). Maryland: Lexington Press. ISBN: 978-1-4985-3248-8. https://rowman.com/ISBN/9781498532488/Ecocultural-Ethics-Critical-Essays

Department of Mathematics

Preprints

1. **Sharma,P.**, & Raghav,M. (2017). Alterations and rearrangements of a Non-autonomous dynamical system. *ArXiv:1711.08573 [Math]*. http://arxiv.org/abs/1711.08573

Department of Mechanical Engineering

Journal Articles

1. Rao,S.S., **Chhibber,R.**, Arora,K.S., & Shome, M. (2017). Resistance spot welding of galvannealed high strength interstitial free steel. *Journal of Materials Processing Technology, 246, 252-261*. ISSN: 0924-0136. https://doi.org/10.1016/j.jmatprotec.2017.03.027
2. Boddupalli,N., Singh,G., **Chandra,L.**, & Bandyopadhyay,B. (2017). Dealing with dust – Some challenges and solutions for enabling solar energy in desert regions. *Solar Energy*, *150*, 166–176. ISSN: 0038-092X. https://doi.org/10.1016/j.solener.2017.04.032

3. Moges,T.M., **Desai,K.A.**, & Rao,P.V.M. (2017). On modeling of cutting forces in micro-end milling operation. Machining Science and Technology, 21(4), 562–581. ISSN: 1532-2483. https://doi.org/10.1080/10910344.2017.1336179
4. Monde,A.D., & **Chakraborty,P.R.** (2017). 1-D diffusion based solidification model with volumetric expansion and shrinkage effect: A semi-analytical approach. *Physics Letters A*, *381*(39), 3349–3354. ISSN: 0375-9601. https://doi.org/10.1016/j.physleta.2017.08.033
5. Phadatare,H., Choudhary,B., & **Pratiher,B.** (2017). Evaluation of nonlinear responses and bifurcation of a rotor-bearing system mounted on moving platform. *Nonlinear Dynamics*, 90(1), 493–511. ISSN: 1573-269X. https://doi.org/10.1007/s11071-017-3677-9
6. **Shah,S.V.,** Saha,S.K., & Dutt,J.K. (2017). A new perspective towards decomposition of the generalized inertia matrix of multibody systems. *Multibody System Dynamics*, 1–34. ISSN: 1573-272X. https://doi.org/10.1007/s11044-017-9581-8
7. Phadatare,H.P., Maheshwari,V., Vaidya,K.S., & **Pratiher,B.** (2017). Large Deflection Model for Nonlinear Flexural Vibration Analysis of a Highly Flexible Rotor-bearing System. *International Journal of Mechanical Sciences*. 134, 532-544. ISSN: 0020-7403. https://doi.org/10.1016/j.ijmecsci.2017.09.039

Conference Papers

1. Raina,D., & **Shah,S.V.** (2017). Impact modeling and estimation for multi-arm space robot while capturing tumbling orbiting objects. In *Proceedings of the Advances in Robotics* (p. 32:1–32:6). Delhi, India: ACM. ISBN: 978-1-4503-5294-9. https://doi.org/10.1145/3132446.3134896

Book Chapters

1. Patidar,D., Pardeshi,R., **Chandra,L.,** & Shekhar,R. (2017). Solar convective furnace for heat treatment of aluminium. In Saha,A., Das,D., Srivastava,R., Panigrahi,P., Muralidhar,K. (Eds.), Fluid Mechanics and Fluid Power – Contemporary Research (pp. 1531–1541). Springer, New Delhi. ISBN: 978-81-322-2743-4. https://doi.org/10.1007/978-81-322-2743-4_146

Preprints

1. Agarwal,A., **Ravindra,B.**, & Prakash,A. (2017). Development of algorithm to model dispersed gas-liquid flow using lattice Boltzmann method. arXiv:1710.07073 [Physics]. http://arxiv.org/abs/1710.07073
2. **Ravindra,B.** (2017). Performance of a crystalline silicon photovoltaic power plant during sandstorms. arXiv:1710.03790 [Physics]. http://arxiv.org/abs/1710.03790

Department of Physics

Journal Articles

1. Babbar,P., Ivanishchev,A., Churikov,A., & **Dixit,A.** (2017). Electrochemical behavior of carbonic precursor with Na3V2(PO4)3nanostructured material in hybrid battery system. *Ionics*, 23(11), 3067–3071. ISSN: 1862-0760. https://doi.org/10.1007/s11581-017-2095-9
2. **Alok,A.K.**, Bhattacharya,B., Kumar,D., Kumar,J., London,D., & Sankar,S.U. (2017). New physics in b→sμ+μ−: Distinguishing models through CP-violating effects. *Physical Review D*, 96(1), 015034. ISSN: 2470-0029. https://doi.org/10.1103/PhysRevD.96.015034
3. Ivanishchev,A.V., Churikov,A.V., Ivanishcheva,I.A., Ushakov,A.V., Sneha,M.J., Babbar,P., & **Dixit,A.** (2017). Models of lithium transport as applied to determination of diffusion characteristics of intercalation electrodes. *Russian Journal of Electrochemistry*, 53(7), 706–712. ISSN: 1608-3342. https://doi.org/10.1134/S1023193517070047
4. **Alok,A.K.**, Bhattacharya,B., Datta,A., Kumar,D., Kumar,J., & London,D. (2017). New physics in b→sμ+μ− after the measurement of RK∗. Physical Review D, 96(9), 095009. ISSN: 2470-0029. https://doi.org/10.1103/PhysRevD.96.095009
5. Mall,A.K., **Dixit,A.,** Garg,A., & Gupta,R. (2017). Temperature dependent electron paramagnetic resonance study on magnetoelectric $YCrO_3$. *Journal of Physics: Condensed Matter, 29(49), 495805*. ISSN: 0953-8984. https://doi.org/10.1088/1361-648X/aa97bc
6. Dutta, S., Adhikari, B., & **Banerjee, S.** (2017). Quantum discord of states arising from graphs. *Quantum Information Processing, 16(8), 183.* ISSN: 1573-1332. https://doi.org/10.1007/s11128-017-1636-5

Preprints

1. Chaurashiya,R., Auluck,S., & **Dixit,A.** (2017). Cation modified A2(Ba, Sr, Ca and Mg)ZnWO6 cubic double perovskites: A theoretical study. ArXiv:1707.03337 [Cond-Mat]. https://arxiv.org/abs/1707.03337
2. **Alok,A.K.**, Kumar,D., Kumar,J., Kumbhakar,S., & Sankar,S.U. (2017). RJ/ψ confronts RD and RD∗. arXiv:1710.04127 [Hep-Ex, Physics:hep-Ph]. http://arxiv.org/abs/1710.04127
3. Naikoo,J., **Alok,A.K., Banerjee,S.**, Sankar,S.U., Guarnieri,G., & Hiesmayr,B.C. (2017). Legget-Garg-Type Inequalities and the neutrino mass-degeneracy problem. arXiv:1710.05562 [Hep-Ph, Physics:quant-Ph]. http://arxiv.org/abs/1710.05562
4. Sharma,V., & **Banerjee,S.** (2017). Analysis of atmospheric effects on satellite based quantum communication: A comparative study. *ArXiv:1711.08281 [Quant-Ph]*. http://arxiv.org/abs/1711.08281
5. Naikoo,J., Thapliyal,K., Pathak,A., & **Banerjee,S.** (2017). Probing nonclassicality in an optically-driven cavity with two atomic ensembles. *ArXiv:1712.04154 [Quant-Ph]*. http://arxiv.org/abs/1712.04154
6. Sharma,V., Shrikant,U., Srikanth,R., & **Banerjee,S.** (2017). Decoherence can help quantum cryptographic security. *ArXiv:1712.06519 [Quant-Ph]*. http://arxiv.org/abs/1712.06519
7. Kumar, P., Banerjee, S., Srikanth, R., Jagadish, V., & Petruccione, F. (2017). Non-Markovian evolution: a quantum walk perspective. https://arxiv.org/abs/1711.03267

Awards & Recognitions

Ankita Sharma and Roshan Lal Dewangan's article receives recognition from Center for Practical Wisdom, The University of Chicago

Can wisdom be fostered: Time to test the model of wisdom authored by Ankita Sharma, Assistant Professor and Roshan Lal Dewangan, Research Associate, Department of Humanities & Social Sciences has been published in Cogent Psychology (Volume 4, Issue 1). The article mentions about the authors' research on aspects of wisdom using Western models within a South Asian context. A review note in recognition of the work has been published by Center for Practical Wisdom, The University of Chicago on their website. Fulltext of this article can be accessed at https://www.cogentoa.com/article/10.1080/23311908.2017.1381456.

STUDENTS

Activities & Achievements

Vishal Sharma awarded Third Best Poster for his Research Work

Vishal Sharma, Ph.D. Student, Department of Physics, working with Subhashish Banerjee, Assistant Professor, Department of Physics, presented his research work "Analysis of Quantum Satellite Communication under Atmospheric Effects" at the 2017 Siegman International School on lasers during 6-11 August 2017 at Leon, Mexico City. He received third best poster award for the same. Also, Vishal Sharma received International Travel Grant from the Department of Science & Technology (DST), Government of India, to attend this event. This fourth Siegman School was organized by the Optical Society of America (OSA) Foundation and was hosted by the Centro de Investigaciones en Optica (CIO), Leon, Mexico.

Vishal Sharma receiving third best poster award for his research work at the 2017 Siegman International School on Lasers

Mahindra Research Valley (MRV), Chennai, commends IIT Jodhpur students during Industry Immersion Program (IIP)

Three B.Tech. Students of the Department of Electrical Engineering of the Institute, namely Dara Shanmukha Sai Sanjay Gupta, Vanam Bhanu Sai Simha, and Pranab Kumar, were commended for their hard work and dedication in successfully completing a mini project on Automated Fruit Harvesting Robotic Arm as part of their engagement as part of the Industry Immersion Program (IIP) of IIT Jodhpur at Mahindra Research Valley (MRV) in Chennai. They were presented with a Commendation Certificate for the same.

CAMPUS NEWS

Opening of Kendriya Vidyalaya at Indian Institute of Technology Jodhpur

The Kendriya Vidyalaya Sangathan opened a *Kendriya Vidyalaya* at IIT Jodhpur for the wards of the Institute employees and neighbouring localities to impart quality education. An Inauguration Ceremony was organized on 06 October 2017 with lighting of ceremonious lamp by Professor Bhagwati Prasad Kashyap and Mrs. Lakshmi Kashyap followed by rendering of *Saraswati Vandana* by the Staff Members and Students of the school. Faculty Members, and Staff Members of the Institute, some prominent people from the nearby villages, and Principal, *Kendriya Vidyalaya*, Border Security Force, Jodhpur, were invited for the ceremony.

Inauguration of *Kendriya Vidyalaya* IIT Jodhpur

Inaugural Speech by Mrs. Neelam Kumari, Principal, *Kendriya Vidyalaya* IIT Jodhpur

NEW JOININGS

IIT Jodhpur welcomes the following new Faculty Members and Staff Members into the family:

Name	Designation	Department / Office	Date of Joining
Bhagwati P. Kashyap	Visiting Professor	Department of Metallurgical & Materials Engineering	02 August 2017
Rishi Raj Singh Rathore	Student Counselor	Administration	27 September 2017
Ashish Kumar	Junior Engineer (Civil)	Office of Infrastructure Engineering	03 October 2017
Siddhartha Mukherjee	Assistant Engineer (Civil)	Office of Infrastructure Engineering	09 October 2017
Laxman Singh	Junior Superintendent	Administration	11 October 2017
Nirmal Kumar Rana	Assistant Professor	Chemistry	02 November 2017
Neha Sardana	Assistant Professor	Department of Metallurgical & Materials Engineering	04 December 2017
Appala Naidu Gandi	Assistant Professor	Department of Metallurgical & Materials Engineering	13 December 2017
Shankar Manoharan	Assistant Professor	Bioscience & Bioengineering	19 December 2017
Aashish Mathur	Assistant Professor	Electrical Engineering	26 December 2017

OUTREACH

Guest Lectures


Patricia Goodman

A guest lecture was delivered by Patricia Goodman on *"Global Citizenship: Identification Transcending One's Geography"* on 01 September 2017. Dr. Goodman is Teaching Professor for Graduate Programs Corporate and Organizational Communication, Northeastern University, USA. The lecture was hosted by the Department of Humanities & Social Sciences.

Vanguard Lectures

The following Vanguard Lectures were organised by the Department of Computer Science & Engineering, Department of Electrical Engineering and Department of Mechanical Engineering which were attended by the Faculty Members, Students, and Technical Staff Members from these departments.


S. Jabez Dhinagar

S. Jabez Dhinagar, Vice - President, Advanced Engineering Group, TVS Motor Company Limited, Hosur, addressed the members of the Department of Mechanical Engineering on *"New Product and Technology Development"* on 29 August 2017.


R. G. Rajhans

R. G. Rajhans, Head Light Defence Vehicles, Tata Motors Limited, Pune, addressed the members of the Department of Mechanical Engineering on *"Inspiration to Aspiration"* on 4 September 2017.


Rajesh Deshpande

Rajesh Deshpande, Head SCV Product, Tata Motors Limited, Pantnagar, addressed the members of the Department of Mechanical Engineering on *"Welcome to VUCA world"* on 4 September 2017.


Naveen Garg

Naveen Garg, Professor, Department of Computer Science and Engineering, Indian Institute of Technology Delhi, addressed the members of the Department of Computer Science & Engineering on *"Online Scheduling"* on 11 September 2017.


Kota V. Murali

Kota V. Murali, Group Executive Vice President, Technology and Innovation, The Manipal Group, addressed the members of the Department of Electrical Engineering on *"Nanotechnology : Enabling the Future of Electronics and Computing"* on 9th October 2017.


Akhilesh Jain

Akhilesh Jain, SO/H and Head, Solid State RF Amplifier Section, RF Systems Division, Raja Ramanna Centre for Advanced Technology, Department of Atomic Energy, Government of India, addressed the members of the Department of Electrical Engineering on *"High Power Solid-State RF Transmitter"* on 13 October 2017.


C. Venkatesan

C. Venkatesan, Emeritus Fellow, Department of Aerospace Engineering, IIT Kanpur, addressed the members of the Department of Mechanical Engineering on *"Autonomous Mini Helicopter Development at IIT-Kanpur: My Journey & Learning"* on 27 October 2017.

Lalit Mohan Kukreja, AvH Fellow, Founder-President, Epi-knowledge Foundation, addressed the members of the department of Electrical Engineering on *"Emerging Technologies of Laser Materials Processing"* on 1 November 2017.


Lalit M. Kukreja

DEPARTMENT IN FOCUS – Electrical Engineering

The *Department of Electrical Engineering*, formerly a part of the Centre for Information and Communication Technology (ICT) at IIT Jodhpur (2008), primarily focuses on imparting quality education and preparing students to face the future technological challenges. The vision of the Department is to enhance the research environment and to innovate in pedagogy to address the challenges of socio-economic and human resource development. The Department is committed to engage in high quality research by Faculty Members and Students, and is in the pursuit of excellence in teaching.

While the broad areas of research are Microelectronics, Power and Control Systems, Communication and Signal Processing, RF and Microwave, our thrust areas of research include:

1. Signal processing for healthcare,
2. Devices and circuits for security and sensing,
3. Low-cost flexible electronics,
4. Smart grids and distribution of renewable energy,
5. Wireless and mobile communication,
6. RF and Microwave , and
7. Image Processing.

Active collaboration is on-going with organizations like Freescale Semiconductors, Global Foundries, AIIMS Jodhpur, DST, DRDO, ISRO, to name a few. The Department has been attracting various sponsored projects from R&D organizations since its inception.

Programs

With excellent laboratory facilities and dedicated Faculty Members, the Department of Electrical Engineering offers the following programs:

1. B.Tech. (Electrical Engineering),
2. M.Tech. (Electrical Engineering), and
3. Ph.D. with specialisation in Electrical Engineering.

People

The Department has nine regular Faculty Members working in different areas.

Name	Designation	Research Area
Anil K. Tiwari	Assistant Professor & Head	Electrical Engineering: Image Processing, Video Processing, and Signal Processing application in Bio-Medical
Abdul Gafoor Shaikh	Assistant Professor	Protection of various components of Power System, Protection of Distribution Network with DG penetration, Power Quality assessment and mitigation in Distribution Networks with Renewable Energy Source penetration
Arun Kumar Singh	Assistant Professor	Communication Theory, Wireless and Mobile Communications, Satellite based Navigation Systems, Spread Spectrum Systems
Deepakkumar M. Fulwani	Assistant Professor	Embedded Control, Control of Micro-Grids and Control of Uncertain System
Mahesh Kumar	Assistant Professor	Group III-V quantum structures by MBE, Growth of thin films and nanostructures, Group III-nitride alloys for LEDs, HEMTs and photovoltaic applications, Inorganic-Inorganic hybrid structures with special attention to band gap engineering, Si and wide band gap semiconductors for MEMS, Micro and Nano device fabrications
Rajlaxmi Chouhan	Assistant Professor	Image processing, Noise-aided image processing using Stochastic Resonance, Image enhancement, Digital watermarking, Image quality assessment
Sandeep Kumar Yadav	Assistant Professor	Signal Processing, Condition Monitoring, Image Processing, Data Compression, Blind Source Separation, Artificial Neural Network
Shree Prakash Tiwari	Assistant Professor	Microelectronics & VLSI Technology, Microfabrication, Organic Electronics, Device Physics and Characterization, New Device Structures
Soumava Mukherjee	Assistant Professor	Microwave Communication

The following are the Adjunct Faculty Members associated with the department:

1. Kota V. Murali, Distinguished Member of Technical Staff, Global Foundries, New York.
2. Debasish Datta, Retired Professor, Electronics & Electrical Communications Engineering, IIT Kharagpur.
3. Akshay Kumar Rathore, Associate Professor, Electrical and Computer Engineering, Concordia University, Montreal, Canada.

The department also has a Scholar-in-Residence, Professor R. K. Shyama Sunder, who is a Senior Professor and J. C. Bose National Fellow at Tata Institute of Fundamental Research, Mumbai.

The department has four Technical Staff Members and one Administrative Staff Member assisting the Faculty Members, and 32 Ph.D. Students. Prospective candidates for Faculty Member positions are encouraged to visit our recruitment page to know more about the procedure: http://iitj.ac.in/faculty/facultypositions. Also, the Department invites applications from young Doctoral Degree holders (below the age of 35 years) to Post-Doctoral Positions in the Department, particularly, in the area of Healthcare technologies, towards developing devices for diagnosis and treatment of illnesses.

Infrastructure

The Department of Electrical Engineering has the following laboratories for teaching. The early laboratories available are as below.

(1) Control System Laboratory,
(2) Power Electronics Laboratory,
(3) Communication and Microwave Laboratory, and
(4) Electronics Laboratory.

Also, the Faculty Members and Students of the Department of Electrical Engineering at IIT Jodhpur are actively engaged in developing novel solutions to cutting edge research problems within the following research laboratories.

(1) Communication Laboratory,
(2) Micro and Nanoelectronics Laboratory,
(3) Microelectronics Laboratory,
(4) Signal Processing Laboratory, and
(5) Microwave & Photonics Laboratory.

R&D Projects

The Faculty Members of the Department are currently running sixteen sponsored research projects being funded by Government of India research funding agencies like the Board of Research in Nuclear Sciences (Department of Atomic Energy), Science & Engineering Research Board (Department of Science & Technology), Department of Science & Technology (DST), Department of Electronics & Information Technology (DeitY), Ministry of Electronics and Information Technology, Department of Atomic Energy, Indian National Science Academy (INSA), UNICEF, Jaipur Branch, Department Research & Development Organisation (DRDO) and Department of Electronics & Information Technology (DeitY). Also, technical support is required to effectively meet the technical objectives of the projects. Towards this end, temporary positions when available are announced from time to time on the Institute's website, for young scientists and technicians to seek training and engagement with advanced subjects of the ongoing research projects.

Collaboration

Faculty Members of the Department of Electrical Engineering are keen to collaborate with individuals from academia, R&D laboratories and industry in India and abroad, in areas of mutual interest. The domains of these collaborations could include:

1. Teaching of courses,
2. Organising Short Courses,
3. Co-authoring of books,
4. Undertaking Joint Research, and
5. Developing technologies for diagnostics and treatment by medical professionals.

The ongoing collaborations include those with colleagues from:

1. All India Institute of Medical Sciences, Jodhpur,
2. Department of Atomic Energy, Government of India,
3. Department of Science & Technology (DST), Government of India,
4. Department Research & Development Organisation (DRDO), Government of India,
5. Department of Electronics & Information Technology (DeitY), Government of India,
6. Indian Space and Research Organisation (ISRO), Government of India,
7. Global Foundries, Pune, India, and
8. Freescale Semiconductors, Bangalore, India.

Outreach

Department of Electrical Engineering hosts weekly seminars for Ph.D. Students and also invites eminent persons from academia and industry for guest lectures and talks. One such guest lectures by Professor Debasish Datta, Indian Institute of Technology Kharagpur have been organized on 21 July, 2017 and the topic of the seminar was "Optical Networks".

Department of Electrical Engineering Building in the Permanent Campus of IIT Jodhpur

OFFICE IN FOCUS – Office of Academics

The *Office of Academics* is one of the main Offices of the Institute. It facilitates the following:

(a) Admissions

1. Prospectus: preparation & printing;
2. Sale of Application Forms;
3. Issue of Admit Cards for Admission Test;
4. Setting of Test Papers; Conduct of Admission Test; Evaluation of Answer Scripts;
5. Announcement of Results;
6. Admission Interviews / Counseling; and
7. Issue of Admission Letters.

(b) Programs

1. Course Registration; Semester Schedule;
2. Time Table & Allotment of Classrooms;
3. Scheduling of Mid- & End-semester examinations; Evaluation and Re-evaluation of exams;
4. Grade records, Grade Cards, & Transcripts;
5. Academic discipline & academic integrity;
6. Student feedback of teaching;
7. Campus Mentor Program (Students-Staff Members-Faculty Members interaction);
8. Monitoring teaching and Faculty Member workload; and
9. Student exchange; inter-areas of study transfer of students; Convocation; New Programs.

People

Activities of the Office of Academics are coordinated by the Coordinator (Academics), who is in turn assisted by the Staff Members. The following are the people associated with this Office:

Name	Designation
Atul Kumar	***Coordinator (Academics)***
Gaurav Nigam	Superintendent
Sandeep Singh Chandel	Superintendent
Rashmi Dhyani	Junior Assistant

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