

Madhav Institute of Technology & Science, Gwalior

NEWSLETTER



Vol. 6, No. 1

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January - June 2018

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69th Republic day



Director's Speech on 26th January, 2018

A Very Good morning to all the members of the MITS fraternity!!

We are all here to celebrate the 69th Republic day of our Nation. We celebrate this day because the Indian constitution was accepted by the Constituent Assembly on 26th November, 1949 but it came into force on 26th January, 1950. Therefore 26th November is celebrated as the Constitution Day while 26th January is celebrated as the republic day.

A constitution is a set of rules through which a country or state is operated and governed; However some democratic countries like United Kingdom, Israel and New Zealand do not have a written constitution. In such countries the constitutional rules are originated from important statutes, or laws and principles decided in various legal cases and conventions.

The Great Constitution of India is the longest written Constitution all over the world; it cannot be read in a single day; it has "448 Articles in 22 Parts, 12 Schedules and 101 Amendments".

The constitution has a unique preamble:

1. The Preamble states that the Constitution derives its authority from the people of India. Therefore even the Parliament cannot override the basic structure of the constitution. 2. The Preamble declares India to be of a sovereign, socialist, secular, democratic republican polity. 3. The preamble promises justice, liberty, equality and fraternity to all Indian citizens.

The beauty of the Indian Constitution lies in its adaptability, flexibility and provisions for carrying out amendments under Article 368, to keep pace with the changing times.

When we look around us we can clearly observe that the world is changing very fast, in all fields. Rate of change that we are experiencing today is unprecedented in the history of civilization. Paradoxically, "Change" is the only thing that is 'Constant' in this world. To survive in the new world, there is a need to adjust to various changes that are taking place; 'inertia' and 'resistance' must be replaced with 'curiosity' and 'acceptance'. The great genius Albert Einstein described himself as "I am neither clever nor especially gifted, I am only very curious". Hence we all should constantly endeavour to learn new things, bring in fresh ideas and come up with novel solutions. According to Winston Churchill "To improve is to change; to be perfect is to change often".

Unless each one of us commits himself or herself 100% to the task in hand, quality and perfection cannot be achieved. The primary duty of an institution is to fulfill the aspirations and expectations of its stakeholders, and it is possible only if we all march together towards this common goal.

Change is the law of life and those who are stuck in the past or present are certain to miss the future. Therefore old institutions like ours must take a lead, be flag bearers, in adapting to the changing format of technical education along with the various good practices associated with it, and set an example before others. Our constitution teaches us to be flexible, alive, relevant and vibrant. Today, we all must salute the great scholars, freedom fighters and above all the father of the Indian Constitution, Dr. B.R. Ambedkar who have given us an excellent constitution which is inimitable and dynamic.

Finally, With Freedom in our Minds, Faith in our words, Pride in our Souls..... Let us salute our great nation.

Jai Hind!

Dr.R.K.Pandit

Inside the pages

- Birth Anniversary Of HH Kailashwasi Madhav Rao Scindia
- Faculty Achievement
- Faculty Outreach
- Expert Talk
- Activities Organized
- Student Achievements & Activities
- National Service Scheme
- Industrial Visit
- In House Summer Internship
- Book Chapter
- Publications
- Team Newsletter

Birth Anniversary of HH Kailashwasi Madhav Rao Scindia

73rd Birth Anniversary of our former Chairman HH Madhavrao Scindia ji was celebrated on 10th March, 2018. On this occasion, Shri Prashant Mehta, Board member and Shri Ramesh Agarwal, Secretary, Scindia Engg. Society, MITS, Gwalior were present. They remembered and shared memories of HH Madhav Rao Scindia ji. The day culminated with Blood donation camp and Charity Club of MITS started a "Book Harvesting Campaign" for needy students.



FACULTY ACHIEVEMENT

- **Dr. Manjaree Pandit**, Delivered expert lecture on "Self Learning" on 11th January 2018 in two-week DST sponsored FDP organized by the Entrepreneurship Development Cell of MITS Gwalior from 9th January-19th January 2018.

- **Dr. Amit Aherwar**, delivered a lecture on Introduction to Rapid Manufacturing: 3D Printing and Rapid Prototyping at Manav Bharti University, Himachal Pradesh from 20th January 2018.

- **Dr. Manjaree Pandit**, Delivered expert lecture on "NI Techniques and their Engineering Applications with MATLAB implementation" in one-week AICTE-QIP Short-term Course (STC) on "Numerical Application to Electromagnetics" on 29th January 2018.

- **Dr. C.S. Malvi**, delivered a lecture on Solar energy: Advances and opportunities for sustainable development at Multanival Modi College Modinagar, Meerut (Feb 2, 2018).

- **Dr. C.S. Malvi**, chaired a physical science session at Subharti university, Meerut (Feb 2, 2018).

FACULTY OUTREACH TRAINING PROGRAMME/ FDP ATTENDED

- **Dr. Manjaree Pandit**, Delivered expert lecture on “Outcome Based Education & NBA Accreditation”, in AICTE-QIP Short-term Course (STC) from 10th March to 14th March 2018 on “Assuring Global Quality in Technical Education through Outcome Based Education” under the IQAC at MITS, Gwalior
- **Dr. Manjaree Pandit**, Delivered expert lecture on "Optimization techniques and its Engineering Applications", in one-week AICTE-QIP Short-term Course (STC) on “Nature Inspired Optimization and its MATLAB implementation” on 17th March 2018.
- **Dr. Hari Mohan Dubey**, Delivered expert lecture on “Introduction of Distributed Generation, Scope & Application” on 20 march in One week Faculty Development programme on Recent Advancement in Distributed Power Generation (Duration- 20 – 24 MARCH 2018) at LNCT Bhopal jointly organized by LNCT and RGPV Bhopal under TEQIP III.
- **Dr. Manjaree Pandit**, Delivered expert lecture on "Hybrid wind-solar Micro-grid" in RGPV-TEQIP-III sponsored one-week FDP on "Emerging Technologies for Smart Cities", on 29.3.18 at Vikrant Inst. of Tech. & Management, Gwalior.
- **Prof. D. Rastogi** has delivered an expert lecture on “Waste to Energy Management” at VITM, Gwalior on 31st March, 2018.
- **Dr. R. S. Jadon and Dr. Anshu Chaturvedi** , Session Chair in 1st International Conference on Communication, Network and Computing CNC-2018 at ITM University, on 3rd May 18.
- **Dr. R.S. Jadon**, delivered Keynote Address in NDID-2018 at Sriram Group of Colleges, Gwalior, on 3rd May 18.
- **Prof. A. K. Saxena** has delivered an expert lecture on “Smart Cities” at Hindustan College of Engg. & Technology, Mathura on 12th June, 2018.
- **Dr. S. K. Jain & Dr. M. K. Trivedi** attended a workshop on “NBA Accreditation” at IGEC, Sagar on 10th January, 2018 and deliberated on various aspects of NBA Accreditation.
- **Dr. Dharmendra Jain, Prof. Utkarsh Srivastav, Prof. Ajay Singh Rajput, Prof. Deepak Kumar, Prof. Krishan Kumar Yadav, Prof Subash Chand Pal, Prof. Sumeet Kumar Singh**, attended Faculty Induction Program at IIT Hyderabad during 25th-29th Jan, 2018.
- **Prof. Vaibhav Shivhare**, participated in BAJA SAEINDIA organised by SAEINDIA at NATRAX Facility of NATRiP in Pithampur, M.P. during 25th-28th Jan, 2018.
- **Prof. Rajeev Kumar Singh & Prof. Amit Manjwar**, have attended Infosys Faculty Enablement Program on UI Technologies schedule from 29th Jan'18 to 3rd Feb'18 at Acharya Institute of Technology, Bangalore.



- **Dr. M. K. Trivedi, Prof. G. Bhadoriya & Prof. Aditya K. Agarwal** of Civil Engg. Deptt. attended workshop on “Effective Techniques of Question paper setting: An Outcome Based Education Approach” at MITS Gwalior during 7th -8th Feb. 2018.
- **Prof. Shubham Srivastava**, attended Faculty Induction Program at IIT Kanpur during 09th-13th Feb, 2018.
- **Prof. Rajeev Kumar Singh, Prof. Jaimala Jha, Prof. Jamvant Singh Kumare, Prof. Punit Kumar Jauhari, Prof. Abhilash Sonker** have attended two days Accenture Learning Symposium from 19th-20th Feb. 2018 at Amity University, Noida.
- **Prof. A. Tiwari, Dr. R. Kansal, Dr. S. K. Jain, Dr. M. K. Trivedi, Dr. S. Tiwari, Prof. D Rastogi & Prof. Aditya K. Agarwal** of Civil Engg. Deptt. attended Short Term Course on “Assuring Global Quality in Technical Education Through Outcome Based Education” at MITS Gwalior from 10th -14th March 2018.
- **Dr. Sanjay Tiwari, Prof. A. K. Dwivedi & Prof. Gautam Bhadoriya** of Civil Engg. Deptt. attended Faculty Development Programme on “Optimization Techniques and its Engineering Applications” at MITS Gwalior from 15th -19th March 2018.
- **Dr. R. Kansal, Prof D. Rastogi, Prof A. K. Saxena, Prof. Aditya K. Agarwal & Prof. Nupur Verma** of Civil Engg. Deptt. attended GIAN course on “Sustainability in the Built Environment” at MITS Gwalior from 19th -30th March 2018.
- **Prof. Shivam Gupta** of Civil Engg. Deptt. attended an Faculty Development Programme on “Student Induction Programme” at SGSITS Indore from 4th -6th June 2018.
- **Dr. Manjaree Pandit** , attended **Continuing Professional Development Programmes** on “Renewable Energy Generation- Integration with Grid and Storage Batteries” at Engineering staff College of India (ESCI), Hyderabad from 05th -08th, June 2018.
- **Prof. A. Tiwari, Dr. S. K. Jain , Dr. M. K. Trivedi, Dr. S. Tiwari , Prof. A. K. Saxena, Prof. A. K. Dwivedi & Prof. G. Bhadoriya** of Civil Engg. Deptt. attended Summer Training Program on “Active Learning” at IIT Indore from 25th -29th June 2018.

EXPERT TALK

- **Expert Lectures** were delivered by **Dr. R. K. Saraf**, Chief Editor IWWA Journal & **Dr. R. K. Shrivastava**, Professor Civil Engg., SGSITS Indore during workshop on “*Capacity Building in Technical Paper Writing*” on 20th Jan. 2018 organized by the **Civil Engg. Deptt.** in Collaboration with IWWA Gwalior Chapter.
- An **Expert Lecture** was conducted on “*Software Product Life cycle in Industry*” on 3rd Feb. 2018 by the **MCA Deptt.** The lecture was delivered by **Mr. Anish Kumar**, Business Consultant, Nucleas Software, Noida.
- An **Expert Lecture** was conducted on “*Concrete Mix Design*” on 7th Feb. 2018 by the **Civil Engg. Deptt.** The lecture was delivered by **Engineer Vaibhav Gupta**, State Head Technical, Birla Gold Cement.
- An **Expert Lecture** was conducted on “Business Marketing” on 24th Feb. 2018 by the **MCA Deptt.** The lecture was delivered by Mr. Praveen Kumar, Adobe, Noida.
- An **Expert lecture** was conducted on “Advanced Manufacturing System” on 27th march 2018 by the Mechanical Engineering. The lecture was delivered by Prof. S.P Tiwari, Professor, IIT (BHU) under TEQIP-III.

ACTIVITIES ORGANIZED

- **World Environment Day** was celebrated on 5th June 2018 by the Civil Engg. Deptt. in Collaboration with IWWA Gwalior Chapter

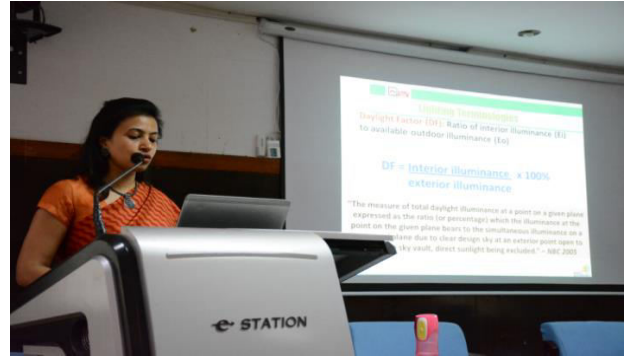


- Two-day **workshop** on "**Effective Techniques of Question Paper Setting-An OBE Approach**" organized under the IQAC, during 7th -8th February 2018.
- One-day **Interactive Workshop** "Role of **Administrative head and Ladies in establishing a bond with students and solving their different issues and problems**" on 5th February 2018. Resource Person: **Mrs Madhuri Sahasrabudhe**, wife of AICTE Chairman, Invited speaker: Eminent guest Mrs Mamta Mehta, Mrs Asha agarwal, Dr Anjali Naik , Dr Manjaree Pandit, Dean and other senior faculty.
- One-day **Interactive Workshop** on "**Requirements & Preparation for 2nd Cycle Accreditation by NAAC**" on 23rd February 2018 under the IQAC. Resource Person: Shri Nameesh Miglani, Director, STEPS (For all the faculty of the institute)
- One day workshop on "Multi Physics Simulation Capability of ANSYS" at SKF lab on 24th Feb 2018 by the Mechanical Engineering.





➤ One day workshop on “**Net Zero Energy Building**” at Mechanical Engineering Department on 20th Mar 2018. The lecture was delivered **Prof. Roshini Udyavar Yehuda** under TEQIP-III.



➤ **One day National Summit** Digital Judiciary & MITS organized by IEEE MP Subsection, Computer Society of India, IETE Gwalior Chapter, Institution of Engineers, SSKS Foundation Gwalior. Honble Justice Shri Vivek Agarwal ji, Honble Justice Shri Brij Kishore Dube, Director MITS Dr. R K Pandit, Dr.GS Tomar Director THDC-IHET, Uttarakhand , Shri R K Khetan, Dr P K Singhal, Shri Apoorv Agha CSI and other renowned dignitaries from Police Services and Cyber Cell of Madhya Pradesh grace the occasion .



➤ Two-day **In-House Workshop** on “**Assessment of CO- PO -PEO Attainment**” on 5th & 6th July 2018 for all the OBE coordinators under the IQAC.

➤ One-week AICTE sponsored **QIP-STC** on “**Assuring Global Quality in Technical Education through Outcome Based Education**” under IQAC from 10th -14th March 2018.



➤ Organized a one week AICTE-QIP sponsored faculty development programme on “**Optimization Techniques and its Engineering Applications**” from March 15th-19th, 2018 by the Mechanical Engineering.





- **Saurabh Mishra and Anjali Nayak**, Student of B.E. Civil Engg. 2nd Year completed certification NPTEL online course on "*Earth Sciences for Civil Engineering Part I & part II*" and is in top 5% of students in this course.
- **Vedika Dadhich**, student of B.E. Civil Engg. 3rd year, successfully completed an internship in the area of waste to energy - Plastics to Liquid technology with Renetech Limited in Sweden from 2nd June to 30th June 2018.

STUDENT ACHIEVEMENTS & ACTIVITIES

- **Parv Pandey**, Student of B.E. Civil Engg. Final Year successfully cleared CAT 2017 exam with 99.77 %.
- **Shubham Mittal**, Student of B.E. Civil Engg. Final Year successfully cleared CAT 2017 exam with 95.68 %.
- 36 students of B.E. Civil Engg. Final Year successfully cleared GATE 2018 exam, of them **Abhilash Dhanoriya** got AIR 838.
- **Ashma Parween and Monika Khare**, Student of B.E. Civil Engg. 3rd Year completed certification NPTEL online course on "*Electronic Waste Management–Issues and Challenges*" & got Gold Medal for being in top 1% of students in this course.
- **Anoop Rathore and Mayank Shakya**, Student of B.E. Civil Engg. 3rd Year completed certification NPTEL online course on "*Electronic Waste Management–Issues and Challenges*" and is in top 5% of students in this course.

- **SPELL BEE** contest was organized by the students of MCA II year for all the MCA students.
- **Baja 2018** was held in NATRIP pitampura, indore during 25th – 31st Jan 2018.



- **International Go Kart Championship 2018** was held at Lovely Professional University, Jalandhar during the last week of March (i.e. 23th-26th March 2018).



- **Team “ADVAIT”** was participated in a national level competition EcoKartseries session-5, 2018, which is to be held in Gautam Buddha University, Gr Noida,(NCR) Region during 24th – 27th March 2018.

NATIONAL SERVICE SCHEME

1. **Gender Equality/ Gender Sensitization:** NSS and Red Ribbon Club organized a programme on gender equality –open mic

completion on 09/02/2018 and 10/02/2018. 165 students were participated in this.



2. **Rally on AIDS Awareness:** NSS and Red Ribbon Club organized a rally on AIDS awareness from MITS to Morar Chauraha and return back on 22/02/2018. 64 students were participated in this.



IN HOUSE SUMMER INTERNSHIP



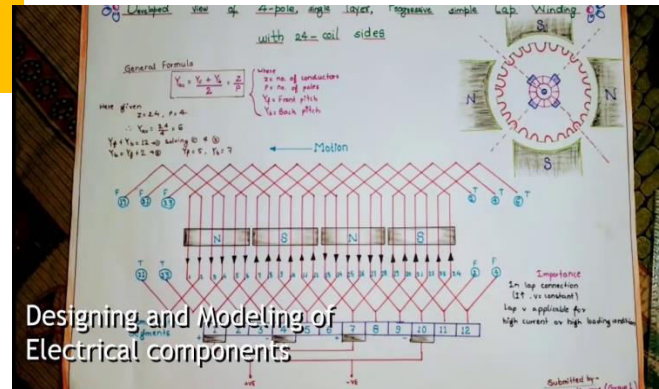
A Fifteen Day In House Summer Internship was organized for First Year under Graduate students during 28th May - 14th June 2018. In all Forty Two Modules were offered by different departments to trained all students in the module of their choice. Internships provide practical experience in a particular field.

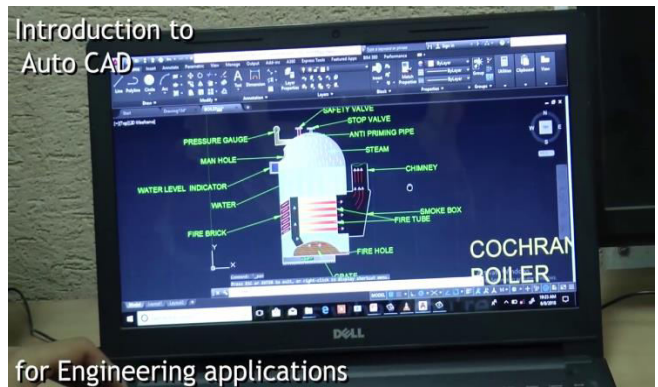
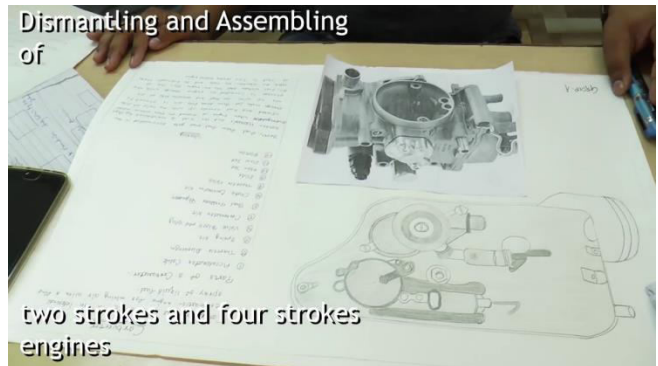
The program was coordinated by **Dr. Rajeev Kansal**, Dean Student Welfare and **Prof. Praveen Bansal**, Assistant Professor, Department of Electrical Engineering was Co-Coordinator.

GLIMPSES OF THE SUMMER INTERNSHIP PROGRAMME

INDUSTRIAL VISIT

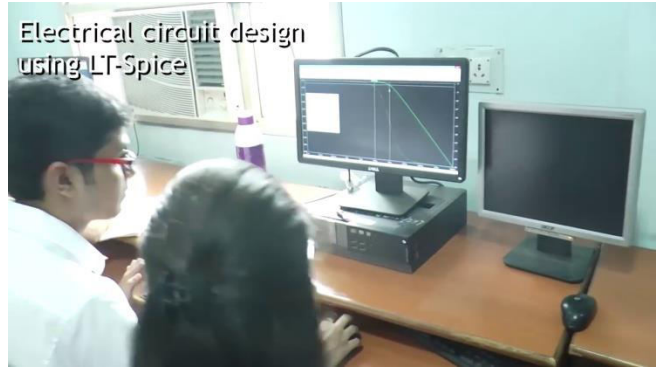
- B.E. III yr. Civil Engg. and M.Tech. Environmental Engg. students visit was conducted at “*Prestressed Railway Sleepers Factory*” and “*Hume pipes (Gwalior spun pipes, factory) Banmore*” on 3rd Feb 2018.







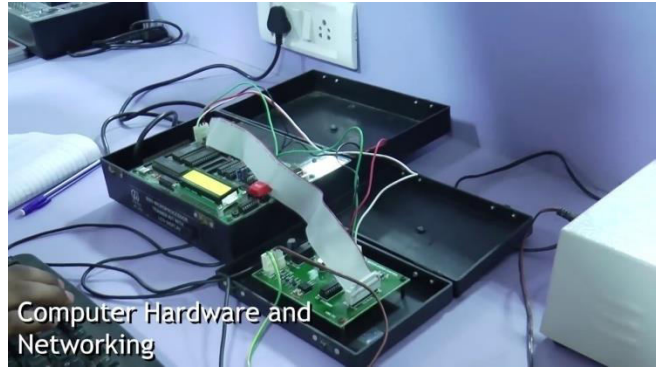
Mechanical Testing and Measurements



Electrical circuit design using LT-Spice



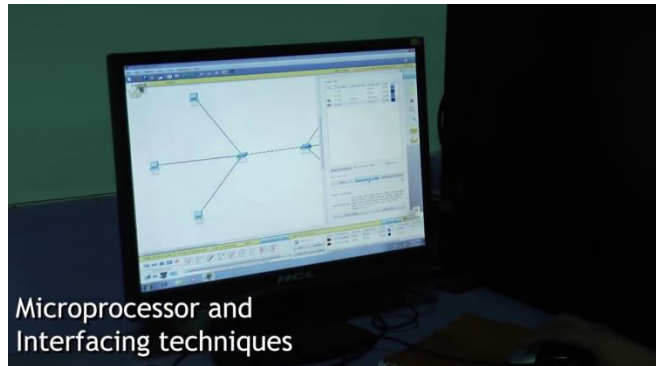
TV and Motherboards



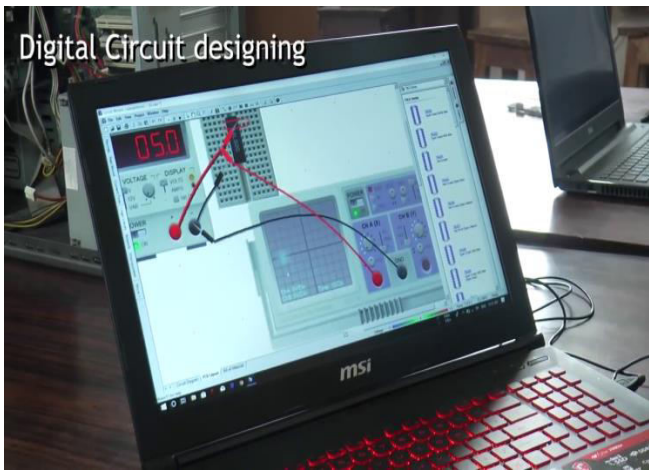
Computer Hardware and Networking



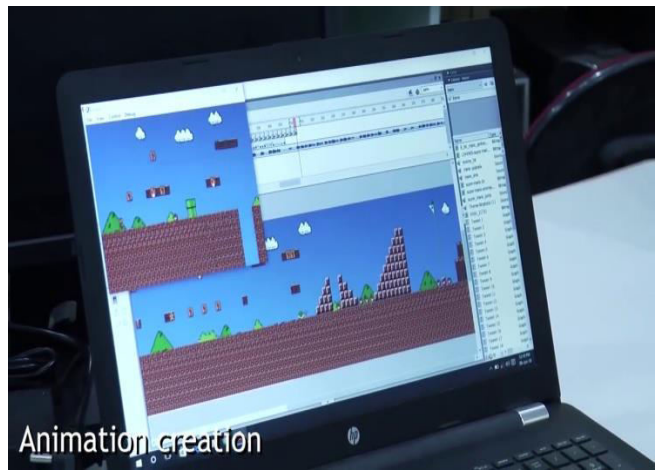
PCB designing and circuit wizard



Microprocessor and Interfacing techniques



Digital Circuit designing



Animation creation

BOOK CHAPTER

- **Rajeev Kumar Singh et. al.**, “Intelligent Image Retrieval via Deep Learning Techniques” Deep Learning for Image Processing Applications, IOS Press, doi:10.3233/978-1-61499-822-8-68

PUBLICATIONS

- **Prof. G. Bhadoriya, Dr. M. K. Trivedi & Harsh Singh Ranawat**, “Critical Factors which are Affecting the Success of Construction Project in Gwalior Division , India” at International Journal of Applied Engineering Research ISSN 0973-4562, Volume 13, Number 11 (2018) pp. 10108-10114 © Research India Publications. <http://www.ripublication.com> .
- **Prof. G. Bhadoriya & Harsh Singh Ranawat**, “Review on Predicting Critical factors affecting success of construction projects in Gwalior division” Volume 5, Issue 02, February -2018, IJAERD-2018, **Scientific Journal of Impact Factor (SJIF): 5.71** e-ISSN (O): 2348-4470 p-ISSN (P): 2348-6406.
- **Pratibha Singh & Satyendra Mittal**, “Stability Enhancement of Slope with Self Drilling Anchors” at ICGRE 118 DOI: 10.11159/icgre18.118, p.p. 1-8, April 2018.
- **Prof. G. Bhadoriya & Wiwashwat wikalp**, “Review Article on Response of Construction Professionals Towards Wastage of Materials in Construction Sites” Volume 5, Issue 04, April -2018, IJAERD-2018, All rights Reserved 763, **Scientific Journal of Impact Factor (SJIF): 5.71** e-ISSN (O): 2348-4470 p-ISSN (P): 2348-6406
- **Prof. Deepak Rastogi & Yogendra singh tomar**, “Removal of Chloride, Hardness and TDS From Water Using Different Adorbent” at International Journal of Research in Applied science and Engineering ISSN 2321 9653, Volume 6 IV, 5111-5117, April- 2018
- **Rahul Singh Dhakad & Dr. M. K. Trivedi**, “Study of enhancement of strength of clayey soil stabilized with Acrylic polymer” IJSRD, Vol . 6, issue 02, p.p. 3272-3276, May 2018.
- **Farooq Ahmad, D. K. Jain & Alok Jain**: The classical Laplace transform and its q-image of the most generalized hypergeometric and Mittag-Leffer functions, Pramana Research Journal, Vol. 8, No.5, pp. 66-71, June 2018. ISSN: 2249-2976.
- **Parul Saxena, R S Jadon**, “Video Surveillance Based on SURF Extraction Using Hybrid BPNN”, International Journal of Research in Electronics and Computer Engineering (IJRECE), Vol. (6), Issue 3, pp. 814- 826, July-Sept 2018.
- **Sandeep Rathore, R.S. Jadon**, “Sentiments and Domain Analysis of Text Sentences Using POS Tagging & Machine Learning Approach”, International Journal of Computer Sciences and Engineering, Vol. 6, issue 6, pp. 1362-1365, Jun-2018.
- **Sandeep Rathore, R.S. Jadon**, “Novel Approach for Domain Recognition of Professional Speech Conversation using Gaussian Naïve Bayes and KNN Classifier”, Invertis Journal of Science & Technology, Vol. 11, 62-67, April 2018.
- **Hari Mohan Dubey, Manjaree Pandit, B.K. Panigrahi**, “An overview and comparative analysis of recent bio-inspired optimization techniques for wind integrated multi-objective power dispatch”, **Swarm and Evolutionary Computation**, Volume 38, February 2018, Pages 12-34
- **Nikhil Mittal, Jitendra Bhartiya, CS Malvi**, Design, Simulation and Economic Analysis of on Grid Solar PV System for Educational Institute in North India, Journal of Alternate Energy Sources and Technologies, 8(2): 64-74.
- **Saurabh Agrawal, Manoj kumar Gaur, Dinesh kumar Kasdekar, Sharad Agrawal**, “Optimization of machining parameters of hard porcelain on a CNC machine by Taguchi-and RSM method” International Journal of Engineering, Science and Technology. 2018 10(1): 13-22.
- **Manoj kumar Gaur**, “Exergy analysis of evacuated tube solar collectors: a review” International Journal of Exergy. 2018 25(1): 54-74.
- **Dinesh Kumar Kasdekar**, “Artificial neural network models for the prediction of MRR in Electro-chemical machining” Materials Today: Proceedings. 2018, 5: 772-779.
- **Dinesh Kumar Kasdekar**, “Mathematical and Prediction Modeling of Material Removal Rate for Evaluating the Effects of Process Parameters” Springer, Singapore. 2018: 509-523.
- **Dinesh Kumar Kasdekar**, “Principal component analysis to optimize the ECM parameters of Aluminium alloy” Materials Today: Proceedings. 2018, 5: 5398-5406.

TEAM NEWSLETTER

Advisor – Dr. Rajeev Kansal (DSW)

Chairman- Prof. Kuldeep Kumar Swarnkar

Members- Prof. Aditya Kumar Agarwal, Prof. Bhupendra Kumar Pandey, Prof. Deep Kumar Parsediya, Prof. Amit Kumar, Prof. Anish P. Jacob, Dr. Prangya Ranjan Rout, Dr. Anjali S. Patil, Prof. Parul Saxena, Dr. Shourabh Bhattacharya, Dr. Sachin Singh

Composed by- Mr. Sanjeev K. Rajput