



OPJU

UNIVERSITY OF STEEL TECHNOLOGY
AND MANAGEMENT



OPJU NEWSLETTER

OP Jindal University, Raigarh

September 2023

(A) Events & Activities

- 1 OPJU celebrated *Vishwakarma Pooja* on 17 September 2023 and *Ganesh Chaturthi* on 19 September 2023 in the campus with a belief that Lord Vishwakarma, the divine architect and craftsman and Lord Ganesha the god of wisdom. All the students and staffs offered their wholehearted prayer over the week as per tradition.



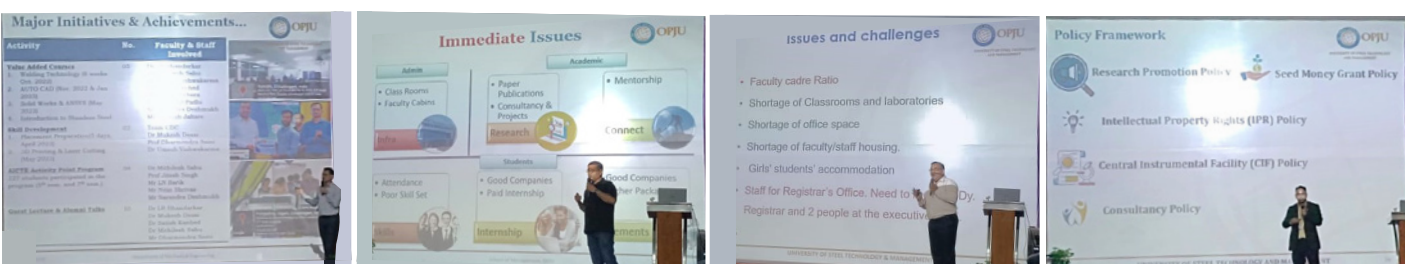
2 Teachers Day was celebrated by OPJU students on 5 September 2023. Students meticulously planned and executed an array of fun entertaining games that had everyone laughing and enjoying themselves.



3 OPJU being a University of Steel Technology and Management, celebrated the *Engineer's Day* on 15 September 2023, in honor of the birth anniversary of the renowned Bharat Ratna Shri M. Visveswaraya. The occasion featured a series of technical events like Design & Prototype Modeling, Technical Quiz, and Poster Presentations. Special initiatives were taken by the Dept. of Electrical and Mechanical Engg. in mentoring and showcasing the students' talent. The occasion was graced by **Dr. R. D. Patidar**, VC-OPJU.



4 OPJU conducted its annual strategic meet *The Faculty & Staff Retreat 2023* on 8 & 9 September 2023 with the theme of *Driving Academic Excellence Through Accreditation and Rankings*. Hon'ble Vice-Chancellor and the Leadership Team of OPJU reviewed the previous year's achievements and presented the plans for the upcoming academic year. Faculty and staff members of OPJU, in this event, received rewards and recognition for their outstanding contributions.



5 OPJU selected few teams to participate in *Smart India Hackathon* (SIH) 2023 in the presence of **Dr. R. D. Patidar** VC-OPJU, **Dr. Rakesh Nayak** HoD-CSE on 21 September 2023. The students groups defined their problem statement to solve some of the pressing needs of the society through product innovation. More than 50 teams shared Sprawling Ideas, Innovative Solutions in a collaborative spirit.



6 Dept. of Mechanical Engg. was honored to host a distinguished delegation of senior officials from **TATA Hitachi**, Kharagpur on 5 September 2023. The visit was a significant event aimed at fostering collaboration, sharing knowledge, and strengthening the industry-academic partnership. The visit served as an opportunity for industry leaders to witness the commitment of OPJU to producing competent, job-ready engineers.



7 The **Dept. of Civil Engg.**, OPJU in association with **UltraTech Cement** and the **Centre for Industry-Academia Collaboration (CIAC)** organized a 2-Days (21 & 22 September 2023) workshop on *Professional Practices in the Cement and Construction Industry*. This workshop brought together professionals, experts, and industry stakeholders to ponder over the latest industry trends, best practices, and emerging technologies in the cement and construction sector.



8 Dept. of Mechanical Engg. launched its bi-annual newsletter *YANTRIKI* on 28 September 2023. This newsletter promises to be a comprehensive resource for all things related to the diverse facets of Mech. Engg. at OPJU to update the students, professionals, enthusiasts, and other curious minds. *YANTRIKI* is likely to offer valuable insights and exclusive content designed to cater to the hunger of a wise audience.

9 **Dr. G. Madhusudhan Rao**, **Mr. Rakesh Patidar** and **Mr. Kapol Nashine** went to represent the Electrical Engg. for the MOU between OP Jindal University and Government Polytechnic College, Jamshedpur on 13 September 2023.



- 10** The Dept. of Mechanical Engg. in collaboration with the Career Development Centre organized for its 5th & 7th semester students, The following sessions
- * *How to Prepare Professional Resume* on 14 September 2023
 - * *Interview Readiness* on 26 September 2023.



- 11** The Dept. of Mechanical Engg. in association with the Institutional Innovation Council (IIC), OPJU organised a session on *Innovation & IPR* for its 5th semester students. **Dr. Satish Kanhed**, Innovation Ambassadors & IPR coordinator of the University served as the facilitator and mentor for the students.

12 Training Events for

NIIT Foundation - Importance of Skill Development in Modern World :

This webinar was conducted by CDC on 14 September 2023 to share insight on Modern Practices of new age Organizations and requirement of upgrading self to meet the challenges in Employment. The Students also got placement assistance from NIIT Foundation time to time along with E-Certificate for Successfully Completing the training programmes.



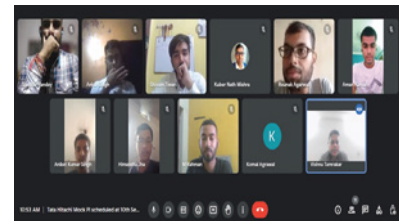
LinkedIn Career - A Kickstarter Program :

This Program was conducted in partnership with FACEPrep and LinkedIn held on 25 & 26 September 2023. The program aimed to equip students with the skills and knowledge needed to leverage LinkedIn for career development. This comprehensive report provides an overview of the program, including the objectives, schedule, attendance, and key outcomes.



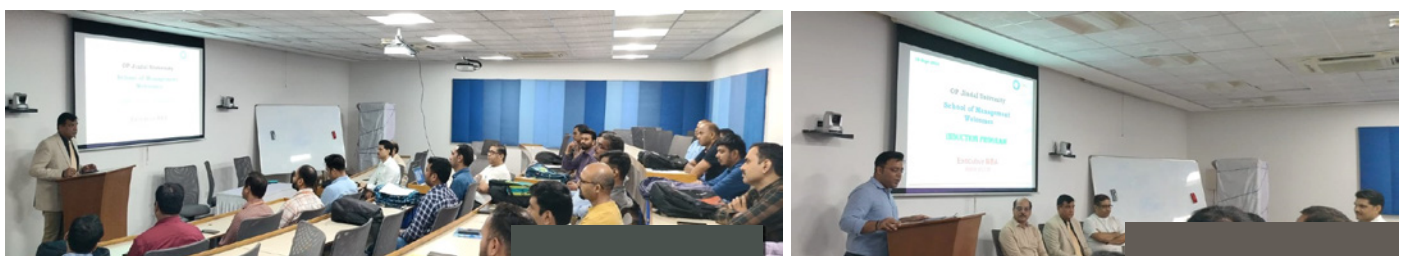
Resume Building - One-Day session by Mr. Vishnu Tamrakar :

CDC Organized Resume writing and career counselling to empower job seekers' tools and knowledge for securing their dream positions. Session was committed to delivering personalized guidance and creating compelling resumes that showcase individual strengths and qualifications for optimal career advancement.



Tata Hitachi – Mr. Rajneesh Tiwari & Mr. Vishnu Tamrakar conducted trainings session for the Shortlisted students of Tata Hitachi where they guided them Resume Preparation, Technical skills & Personal skills.

- 13** OPJU conducted the induction program for its Executive MBA (Batch 2023-25) on 16 September 2023. The keynote session, ice-breaking and faculty-interaction filled the whole day with knowledge and camaraderie. The new E-MBA cohort is a diverse group of talented professionals from industries exhibited an enthusiastic participation towards the core values and goals of the program by setting a journey concurrent to their profession.



- 14** Centre for Corporate Education and Training (CCET) delivered training sessions to *Jindal Steel & Power, Raipur* on
- 2-Days corporate training on *Behavioural Based Safety* on 13 & 14 September 2023. **Dr. Sanjay Singh** delivered this session. He demonstrated a proactive approach on increasing safe behavior to reduce hazards, risks and accidents. The session was highly informative for a large group in two batches.
 - 1-Day corporate training on *Finance for Non Executives* on 15 September 2023. **Dr. Gopal Rathore** delivered this session. He demonstrated the fundamentals of financial reports and statements, including cash flow statements, income statements, and balance sheets. The session was highly informative for a group of 25 participants.



- 15** Centre for Corporate Education and Training (CCET) delivered 1-Day corporate training session on *Vision, Mission, Core Value* and *One-Thing* for the GETs of *Jindal Power Limited, Tamnar* on 16 September 2023. **Dr. Seshadev Nayak** delivered the session, which was found highly informative for the participants.

- 16** Dept. of Computer Science & Engg. organized following Expert Session on
- * *Internet of Things (IoT) and It's Applications in Industries.*
 - * *Continuing Software Education Program.*
 - * *Internet of Things Applications.*
 - * *Logic Building.*



- 17** Academic Staff College (ASC) of OPJU in association with Internal Quality Assurance Cell (IQAC), and NAAC Steering Committee organized a Faculty Development Program (FDP) on *Outcome Based Education through Attainment of CO, PO and PSO* on 16 September 2023. The program was presided over by **Dr. R. D. Patidar**, VC-OPJU who emphasized the importance of implementation of an outcome-based framework at OPJU, **Dr. Rakesh Nayak**, HoD-CSE, delivered the keynote speech, **Dr. M. Kalyan Phani**, Co-ordinator NAAC steering committee describe the utility of outcome-based education. **Dr. Jaya Prakash Rath**, Principal, Academic Staff College gave the vote of thanks.



18 A workshop on *Theory of Constraints: An Innovative Approach in Higher Education* was organized for the faculty and staff members of OPJU by the Academic Staff College (ASC), Internal Quality Assurance Cell (IQAC), and NAAC Steering Committee on 22 September 2023. **Dr. R. D. Patidar**, VC-OPJU was the resource person of the session. The program is well appreciated by all the faculty and staff members of the university. **Dr. Jaya Prakash Rath**, Principal, Academic Staff College gave the vote of thanks.



19 OPJU conducted *Fatafat Sports Tournament-23* from 20 to 25 September 2023 for all the students under the guidance of **Dr. Amit Paras** and coordination by **Gyaneesh Bhatt**, **Piyush Singh** (for Cricket), **Naresh Mourya** (For Volleyball), and **Harsh Dubey** (For Basketball).








20 Sports Club of OPJU organized *Morning Fitness Activity* and an *Intra-School Carrom Tournament* on 27 September 2023 for the wellness of the students.



(B) Placement

1 Placement Drives conducted by CDC in the campus of OPJU

	<p>Company Name: Tata Hitachi</p> <hr/> <p>Students' Background: M.Tech_Mechanical, Metallurgy & Electrical-2024 Batch</p>		<p>Company Name: RKM Powergen Pvt. Ltd.</p> <hr/> <p>Students' Background: B.Tech_Mech & EE 2023 & 2022 Batch</p>
	<p>Company Name: Mahindra & Mahindra</p> <hr/> <p>Students' Background: B.Tech_Metallurgy-2023 Batch</p>		<p>Company Name: Jindal Steel & Power</p> <hr/> <p>Students' Background: Diploma_Mech, Meta & EE-2023 Batch</p>
		<p>Company Name: Flipkart</p> <hr/> <p>Students' Background: B.Tech & MBA-2023 Batch</p>	

2 Following students of B. Tech 7th Semester, Dept. of Computer Science Engg. got selection in various companies



Ms. Aditi Singh
flutter developer intern
Visanka Technologies Pvt. Ltd.



Mr. Patani Praveen Rao
Intern, EVD Technology LLP
Full stack Web Development
intern at VINTERN.TECH Pvt. Ltd.



Mr. Ayush Mehara
Intern,
Leena AI India Pvt Ltd.



Ms. Shuruti Singh
Intern
Digital Shakha.



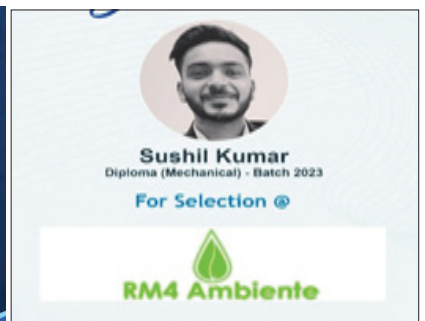
Mr. Sabyasachi Mahapatra
intern
EVD Technology LLP



Mr. Akash Singh
intern
EVD Technology LLP

3 Kaushal Das of Diploma Mechanical stream got selected for L&T.

4 Manish Rai and Naveen Kumar Shrivastava of B.Tech Mechanical stream got selected for SGMS.



5 Sushil Kumar of Diploma Mechanical stream got selected for RM\$ Ambiente.

6 Sushant Mukherjee, Aman Kumar and Rounak Agarwal of B.Tech & M.Tech streams got selected for Tata Hitachi for the long-term internship.

7 Raunak Tripathi of Diploma Metallurgy stream got selected for JSW Steel.



8 Jammeera Bhasha of M.Tech. Metallurgy stream got selected for SLR Metaliks.

9 Nidhish Ku Yadav, Abhishek Kumar, Yasharth Mishra, Kamal Pandey, Sunil Ku Sahu, Vaibhav Tiwari, Priyanshu Patel, Adit Ku Dubey, Abhinav Ku Sinha, Shubham Ku Sahu, Jaspreet Kaur, Abhishek Joshi, Sheetal Kumari, Dharashree Patnaik and Abhijit Singh of B.Tech. Mechanical, Metallurgy and Electrical stream got selected for JSP.



10 Yashwant Kumar Sahu, Anurag Singh and Dulesh Ku Chandram of B.Tech (Electrical and Mechanical) streams got selected for R.K.M. Powergen Pvt. Ltd.

(C) Research & Publications

- 1** **Dr. Arti Vaish** published a book with the CRC Press, a company with Taylor and Francis group titled *Adaptive Power Quality for Power Management Units using Smart Technologies*. with ISBN no 9781003436461.

She also published two chapters of book namely

- * *A Case Study on Intelligent Engineering Applications for Sustainability Using AI and ML Approaches*, Chapter 4.
- * *Power grid adaptive and block processing control based on the extended Kalman filter and large deviation theory*, Chapter 5.



- 2** **Dr. Saroj Kumar** of Mechanical Engg. Dept., published research articles

- * *Design and Development of a nano drone-A real-time UAV*
- * *Trajectory exploration of K-III robot employing modified wind driven algorithm* in the journals of Materials Today and AIP CP respectively.



- 3** **Dr. Bhupesh Dewangan** published following two papers in Springer Journal *Machine Intelligence and Data Science Applications*

- * *ARM-FT Autonomic Randomized Cloudlet Management Through Fault Tolerance* and
- * *A Bibliometric Analysis of Autonomic Cloud Computing*



- 4** **Dr. Rakesh Nayak** and **Dr. Umashankar Ghugar** published two book chapters with IGI Global.

- * *A Case Study on Intelligent Engineering Applications for Sustainability Using AI and ML Approaches* is published in the book *Intelligent Engineering Applications and Applied Sciences for Sustainability*.
- * *Case Study on the Social Impact of Intelligent Technologies: An Overview*, for the book *Sustainable Science and Intelligent Technologies for Societal Development*.



- 5** **Dr. Suchismita Panda** published a book chapter titled *Navigating Neoliberal Ethnicity in Sankar's The Middleman* in an edited book, *English Literature: Texts, Contexts and Concepts*, Malik and Sons, 2023, pp. 249-259. (ISBN:978-93-92459-13-9)



- 6** **Mr. M. R. Mishra, Dr. D. Samal** and **Dr. Saumya Singh**, Dept. of Mathematics published a research paper titled *Laplace Transform Approach for an Impulsively Moving Plate on a Copper-Water Based Magneto-Nanofluid with Isothermal and Ramped Temperature* in a Scopus indexed journal: *China Petroleum Processing and Petrochemical Technology*, Vol. 23, Issue 2, 2023.



- 7** **Dr. Anurag Sharma**, published a research article *Influence of glass powder silica fume and scrapped ceramic waste on the mechanical properties of concrete* in *Materials Today: Proceedings*, a Scopus Index Journal.



- 8** **Prof. Dharmendra Singh Saini** published a research article, *Tribological Performance Evaluation of Greases on Four Ball Tester with Nanoparticles Graphene Oxide* in the journal *ACS Omega*.



- 9** **Dr. Mahesh Bhiwapurkar** published a research article, *Development and Analysis of Rolling Contact Fatigue Squat Crack in Wheel/Rail-Weld System Using Finite Element Modelling* in *European Chemical Bulletin*.



10 Dr. Mukesh Shyamkant Desai published an industrial Design with application Number 363716-001.



11 Prof. Jitesh Singh published a research paper, *Thermal stability and dynamic mechanical analysis of nano-biofillers blended hybrid composites reinforced by cellulosic Borassus flabellifer L. fiber* in SCI Indexed *International Journal of Polymer Analysis and Characterization*.



12 Dr. Saroj Kumar Chandra published a research paper, *Efficient Machine Learning and Fractional Calculus based Mathematical Model for Early COVID* in the Journal *Human-Centric Intelligent Systems*



He also published a book chapter, *Impact of Fake News on Society with Detection and Classification Techniques* in the book of *Applied Computer Vision and Soft Computing with Interpretable AI* of Taylor and Francis.

13 Dr. Mithilesh Sahu published research articles



* *Experimental investigation of blower speed and number of nozzle's effect on cooling tower performance*

* *A review on performance of the thermal power plant for optimized design of surface condenser*

* *Study of utilization of power plant fly ash in cement making process and reduction of power consumption* in the AIP CP.

(D) Achievements

1 Prof. Narendra Dewangan and Prof. Princy Diwan of CSE actively participated in a 1-week online FDP on *Research Methodology and IPR* organized by Indian Institute of Information Technology, Ranchi, Jharkhand from 9 to 13 September 2023.



2 Dr. Arti Vaish of CSE completed Innovation Ambassador training Foundation level and Advanced level total 15 sessions with 30 contact hours of each in online mode by Ministry of Education Innovation cell and AICTE during the IIC calendar year 2022-2023.

3 Prof. Narendra Dewangan of CSE is recognized as a reviewer at *3rd International Conference on Innovative Sustainable Computational Technologies (CICST-2023)* organized by Graphic Era University, Dehradun With AICTE and SERB, from 8 & 9 September 2023.

4 Final defence seminar *Spectroscopic investigation of sulphate based luminescent phosphors*, followed by Viva Voce of scholar **Mr. Sushant Rajendra Bargat**, Dept. of Physics, School of Science was held on 6 September 2023 for the provisional award of Ph.D.



5 Ms. Sheenat Chawla & Ms. Muskan Singh, the students of BSc (H) Biotechnology, SoS secured first position in the poster and PPT presentation competitions, respectively organized by the School of Engineering on the occasion of the celebration of Engineer's Day on 15 September 2023.



6 Prof. Vinod Nagpure of Civil Engg. delivered a guest lecture in online mode on 8 September 2023 on *Personality Development for Government Polytechnic Sonepur (Odisha)*.

He also attended a webinar on

* *Sustainability and Practices - A timeline Requirement of the Construction Industry* 7 September 2023 jointly organized by Indian Concrete Institute Kochi Centre and QCRETE Readymix India Pvt. Ltd.

* *Making Concrete Sustainable and Moving towards Net Zero* 27 September 2023 jointly organized by Indian Concrete Institute Kochi Centre and QCRETE Readymix India Pvt. Ltd.

7 Dr. R S Singh of SoS delivered an invited talk entitled *Graphene Derived from Shellac for Applications in Energy Conversion and Storage Devices* held on September 18, 2023, in Austin, Texas, USA.

8 On 18 September 2023, during the Sixty-Two Teacher's Day Celebration, **Dr. Sidharth S Chakrabarti**, the Dean Academics and Dean- SoE, OPJU was honored with the prestigious *Excellent Teacher Award*. This recognition was presented by the renowned national organization, The Institution of Engineers (India), Chhattisgarh State Centre, Raipur. The event was graced by the presence of over 150 distinguished engineers, academicians, professors, scientists, and dignitaries representing various esteemed organizations.



9 The Dept. of Mechanical Engg. congratulates

* **Rohan Sharma**, a 5th-semester student for securing 1st position in the Technical Quiz and 3rd position in Poster Making and Presentation competitions.

* **Vishal Pandey**, a 5th-semester student for securing 2nd position in the Poster Presentation competition.

* **Mr. Shishir Santosh Mishra**, a 5th-semester Diploma student for securing 2nd position in the Poster Making and Presentation competition

organised on 15 September 2023 by the School of Engineering, OPJU on the occasion of *Engineers Day Celebration*.



10 The Dept. of Mechanical Engg. congratulates **Ms. Nikita Sahu** and **Mr. Prathmesh Gupta**, a 5th-semester student, for successfully coordinating and organising various events during the *Engineer's Day Celebration* on 15 September 2023.

11 National TPO Conclave: **Dr. Shesadev Nayak**-Director, CDC & **Mr. Soumitra Tiwari** attended a National TPO conclave on 26th August 2023 in online mode. It was organized by Capabl and Federation of Training and placement officers, where speakers were invited from Amazon, Microsoft and other top MNCs.



12 **Dr. Taniya Sengupta Rathore** of SoS participated in 5-Days International Faculty Development Program on *Recent Advancement in Nutraceuticals* held on 18 to 22 September 2023 organized by Galgotias University.

13 Following faculty members of SoM presented a research paper at International Finance and Accounting Conference (IFAC-2023) held on 8 & 9 September at IIM Jammu.

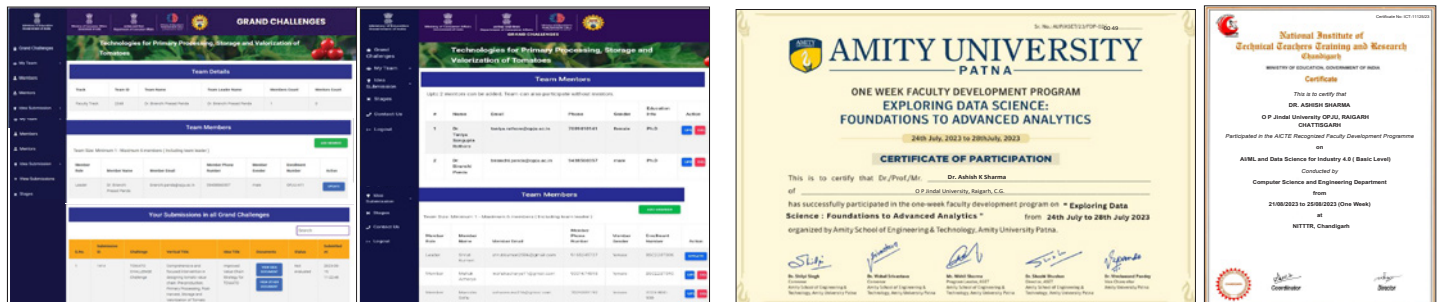
* **Dr. Gopal Krishna Rathore**, *Green finance towards Sustainability: An overview*

* **Mr. Bhupendra Tripathi**, *Capacity Building Approach for Sustainable Green Finance in India*



14 **Dr. Gopal Krishna Rathore** of SoM attended Innovation Ambassador (IA) training *Foundation Level* conducted in online mode by MOE's innovation cell & AICTE.

15 Ministry of Consumer Affairs and Ministry of Higher Education realized to stabilize the price volatility of common agri-products by organizing *Tomato & Onion Grand Challenges* with proper interventions and recommendations. OPJU under the invitation of AICTE displayed its participation through four innovative project ideas from the collaborative efforts of **Dr. B. P. Panda**, SoM; **Dr. Taniya Sengupta Rathore**, **Shruti Kumari**, **Mehak Acharya** and **Manisha Sahu**, Dept. of Biotech.



16 **Dr. Ashish Sharma** of CSE participated in 1-week online Faculty Development Program on *Exploring Data Science: Foundations to Advanced Analytics*, organized by Amity University, Patna, 2023.

He also participated in one Week Online Faculty Development Programme on *AI/ML and Data Science for Industry 4.0 (Basic Level)*, organized by CSE Dept., NITTR, Chandigarh from 21 to 25 September 2023.

17 **Dr. M. Kalyan Phani** of Metallurgy Dept. became the editor of the Proceedings of the 5th International Conference on Advances in Steel, Power and Construction Technology of AIP having volume number 2888.



18 **Mr. Varun Kumar Kurapati**, PhD Scholar and **Mr. Vishal Singh**, B.Tech student of Dept. of Metallurgical Engg. participated and successfully completed 5-days online *Skill Development Program on Advanced Manufacturing and Materials Processing* from 25 to 29 September 2023 organized by Annant Gyan Knowledge and Skills Pvt Ltd.

- 19 **Mr. Rakesh Patidar** of Electrical Engg. delivered an expert talk on *Applications and research challenges in microprocessor and Controller* in One-week STTP on Challenges, Applications and Techniques in Engineering Research and Design at Arka Jain University, Jamshedpur (JH) on 12 September 2023.
- 20 **Prof. Bhupendra Tripathi** of SoM conducted a session on *Value Education* for the SoM students on 29 September
- 21 **Dr. R. S. Singh** of SoS delivered an invited talk on *Graphene Derived from Shellac for Applications in Energy Conversion and Storage Devices* held on September 18, 2023 in Austin, Texas, USA.
- 22 **Ms. Sujata Panda** of SoM participated in the Webinar organised by UGC-HRDC on *NEP 2020: E-Content Development & Delivery* on 16 September 2023.
- 23 **Mr. Manoj Ku Mishra** of SoM delivered a guest lecture for final and pre final B.Tech. Students of Dharmsinh Desai University, Nadiad, Gujarat on 14 September 2023, on the topic *Electric Vehicle and sustainability*.



- 24 **Dr. Rekha Sharma** of SoM participated in the Webinar Series-I on *Perfecting the Art of Writing Research Paper* Organized by Sir C. V. Raman Research Colloquium in association with Dept. of Computer science and Applications on 22 September 2023.
- 25 **Dr. Sushree Diptimayee Swain** and **Prof. Pushpanjali Shadangi** of Electrical Engg. attended a FDP on *Smart Grid and Integration of Distributed Generation* during 28 August to 1 September 2023.

(E) Emerging Techniques and Technologies

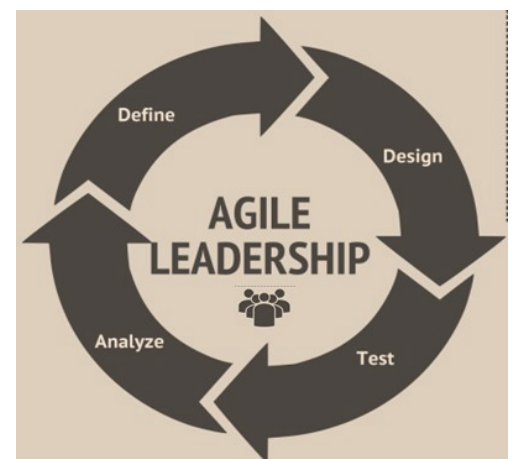
1 Agile Leadership

[Source: Dr. R. D. Patidar; Adopted from: <https://fourweekmba.com/agile-leadership>]

Traditional leadership practices are outdated and ineffective in many modern businesses. Indeed, we don't need research to prove that one of the main causes of job dissatisfaction is to have a bad boss.

Agile leadership is the embodiment of agile manifesto principles by a manager or his/her team. Throughout the complete agile cycle, an agile leader shows and teaches his/her team humility, autonomy, flexibility, collaboration, understanding, and optimization. It influences two important levels of a business.

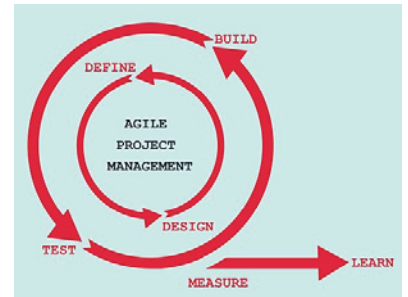
- * The structural level defines the roles, responsibilities, and key performance indicators.
- * The behavioural level describes the actions exhibited by the leaders towards others based on the agile principles.



2 Agile project management (APM)

[Source: Dr. B. P. Panda; Adopted from: What Is Agile Project Management? (project-management.com)]

Agile project management (APM) is a strategy that breaks large projects into smaller, more manageable tasks. Agile project management is an iterative approach to managing projects and teams that focuses on incremental changes to a project throughout its life cycle, beginning with the initial design and progressing to testing and then quality assurance. Rather than a pre-planned course of actions, APM outlines adaptable tasks that are flexible based on the needs of the project and evolving circumstances. Continuous adjustments throughout the project lifecycle help Agile projects deliver ongoing value to stakeholders while keeping them in the ideation process.



Within the agile project management methodology, there are numerous agile frameworks, such as Kanban, Scrum, and Lean. Because of its highly flexible design, agile project management is popular with software development teams, video game developers, and other technical teams.

New Additions to OPJU-Talent Pool



Mr. Ajay Pandey
Asst. Director - Administration
BE, M.Tech, Ph.D (Pursuing)
10 Years of Work Experience



Dr. Umashankar Ghugar
Assistant Professor (Sr. Grade)
Dept. of CSE
BE, M.Tech, Ph.D
15.5 Years of Work Experience



Mr. Rahul Singh
Asst. Professor, Dept. of CSE
B.Tech., M.Tech (IIT Bombay)
11 Years of Work Experience



Dr. Manik Das
Assistant Professor, SoS
B.Sc (H), M.Sc, PhD
4.5 Years of Work Experience

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