5th September 2023
Teachers Day Celebration

To commemorate the birth of the second President of India, Dr. Sarvepalli Radhakrishnan, who was a philosopher and a great teacher, 5th September every year, is celebrated as Teacher's Day. His contribution towards Indian education is undeniable. The Teacher's Day was organized with incredible gusto and zeal by the students of Industrial Internet of Things. The celebration took place at 1PM after the classes.

Teacher's Day Celebration

Teaching is not just a job for us; it is a vocation, and witnessing your progress, growth, and triumph over obstacles that brings us immense fulfilment. Remember that learning is a lifelong journey, and we are here to support and guide you every step of the way. Stay curious, stay motivated, and never underestimate the power of education to transform your lives and the world around you". His words overwhelmed all of the staff and the students. All of the students and faculty enjoyed the celebration and spent some memorable time during the busy schedule. Students showed acknowledgement and recognition of the hard work put by the teachers towards their development by wishing them a Happy Teachers Day.

The event was concluded by the reviews of the Head of the Department and all the faculties. Overall, it was a festive atmosphere for all!

12 September 2023
1 Day LinkedIn Workshop

A LinkedIn workshop was conducted under the Departmental Training & Placement cell activity on 12th September 2023 from 1:30 PM to 3:30 PM. The speaker for this event was Ms. Sunitha Vavilapalli, LinkedIn Pune coordinated and was organised by Department Industrial Internet of Things. The Mission of LinkedIn is of connecting the world's professionals to make students more

productive and successful. The second year students attended the session with an audience of a total of 56. The speaker was welcomed and introduced by Prof. Ms. S. S. Tantarpale, the T&P Departmental Coordinator.

The resource speaker first spoke about LinkedIn and suggested ways to build a great LinkedIn profile. The workshop covered the points such as how to make a LinkedIn profile, Difference between LinkedIn profile and resume, how to write an informative profile headline, Importance of a profile, Personal Branding Via LinkedIn, how to showcase a professional status on LinkedIn, how to form and maintain professional relations via LinkedIn and advantages of LinkedIn profile with premium account.

The students set up their LinkedIn accounts, which is the first step in establishing a professional network with the outside world. The 1 Day workshop attended with the vote of thanks on behalf of IIoT dept, PRMIT & R Badnera.

Students creating LinkedIn profile

27th September 2023
Mitra Championship

On the 27th September 2023, Prof. Ram Meghe Institute of Technology & Research, Badnera organized the Mitra Champions Trophy-2k23. It is an Inter Departmental Competition which embodies the zeal, talents and spirit of sportsmanship among students, encouraging them to be persistent and to refine talents, achieving the greatest of the heights. The engineering student community as a whole devoted entire day and conducted the Extra-curricular activities as a competition. The Extra-curricular activities include Quiz Competition, Reel Making, Football, Kabaddi, Tug of War, Box Cricket, Volleyball and Relay Race. The most awaited event of the year commenced with the inaugural function through the hands of Dr. G. R. Bamnote, Principal & Convener of Mitra Champions Trophy, PRMIT&R, Badnera. Sir showed the trophy and encourages team to play for win. Dr. S. S. Deshmukh, Dean Admin & Co-convenor of Mitra Champions, All the Deans, Head of the Departments, along with all the faculty members were present for inauguration ceremony. All the sports along with Football & Box cricket starts at 9.30 am and rounds continued till 5.30 pm. The students from all over the branches participated in the various activities. Amongst all department, the CSE department performed admirably in each activity and was awarded the Mitra Championship Trophy.

Some glimpses of Tug of War

Some glimpses of Football

Some glimpses of Hollyball

Some glimpses of Kabaddi

Running glimpses

Inauguration

Inauguration

Mitra Championship Trophy

Some Box Cricket glimpses

31st Jan, 1st Feb and 2nd Feb 2024
Annual Gathering: Aashayein & Esperanza

Aashayein and Esperanza 2K24 is the most awaited National Level Technical and Extra-Curricular Annual Fest. Students with a huge number use to participate in this Event. Comedian and actor Bharat Ganeshpure, star of the popular series "Chala Hawa Yeu Dya," attended as the event's chief guest. Thirteen distinct technical events took place on January 31, 2024, at the technical fest. On February 1st and 2nd 2024, cultural events were held, with the three major events—dancing, singing, and young icon—being the most prominent. Some of the glimpses shown below of the students who achieved award in the various competitions of Industrial Internet of Things.

Ms. Apurva Chaudhari won First prize in female Singing Competition and the trophy has been awarded by the hands of Head IIoT, Dr. C. N. Deshmukh

Mr. Raj Wankhade won First prize in Male Singing Competition and the trophy has been awarded by the hands of Head IT, Dr. P. V. Ingole

On 29 February 2024
Guest Lecture: Several Linux editors, with Vi/Vim being the most powerful. Prof. A. B. Pardikar

The guest lecture on "Several Linux editors, with Vi/Vim being the most powerful" was organized by Department of Industrial Internet of Things, Prof. Ram Meghe Institute of Technology & Research Badnera on 29th February 2023 at 1:30 PM to 3:30 PM. Our in-house faculty member with extensive knowledge of Linux, Prof. A. B. Pardikar, Assistant Professor, Department of Electronics & Telecommunication, was invited to address the students as a resource person. Prof. (Dr.) C. N. Deshmukh, the head of the IIoT department, enthusiastically greets the speaker. Prof. A. B. Pardikar explained what is Linux? The Trends in several Editors and their uses for compatible programming.

Students participating in the hands-on

The question answer session was conducted. Moreover, 40 students and all faculty members from the department were participated in the session. The need for UI/UX design skills in the IT business was brought to the attention of the students by him. Prof. Ms. S. S. Tantarpale proposed vote of thanks at the end of the session.

Study Visit to Bamboo Nursery at Wadali Forest Reserve On 23-03-2024

Location: Laghuvetan Colony, Near Range Forest Office Wadali, Old Bypass Road, Amravati, Maharashtra 444901.

Area: 49 Acres.

In this Study visit, the major environmental problems and their effects on living things on day-to-day life has been observed. However, for sustainable development, it is imperative to minimize the ecological degradation and environmental pollution resulting from economic activities. Impacts of these activities can be seen in the form of rapid industrialization, the resultant migration, urbanization which are continuously depleting the natural resources and deteriorating the environmental quality. This is first 'Bamboo garden' of India in Amravati City. We appreciated the various varieties of bamboo plants we observed, as depicted below.

Bamboo Hut

Bamboo Balcooa

Semnopithecus

Bambusa Bamboos

Bambusa Vulgaris

Dendrocalamus Asper

Dendrocalamus Hamiltonii

Gigantochloa Apus

Bamboo Pit Viper

The environmental science (EVS) Visit to the Bamboo Garden was an enriching and insightful experience for the students. Exploring the serene beauty of the garden provide them with a deeper understanding of the importance of bamboo in our ecosystem and its multifaceted contributions to sustainability. Witnessing first-hand the lush greenery, intricate structures, and diverse uses of bamboo highlighted its versatility and cultural significance. Moreover, the Visit offered valuable lessons on environmental conservation, emphasizing the need to protect and preserve natural resources like bamboo for future generations. Overall, the visit to the Bamboo Garden served as a

reminder of the interconnectedness between humans and nature and inspired students to adopt more eco- friendly practices in our daily lives. Nearly 60 students were present for the study visit along with the faculties.

27th March 2024 to 31st March 2024
5 Days Workshop on Arduino and Node MCU Programming for IoT Applications

A five-day workshop on Arduino and Node MCU programming for IoT applications was organized for second year students between 27 March 2024 to 31 March 2024 by Department of IIoT, Prof. Ram Meghe institute of Technology and Research Badnera. The workshop was conducted by NU Intelligence Pvt. Ltd. Nagpur. The aim of the workshop was to make students aware about Internet of Things (IoT), provide exposure to various sub-fields and technology stacks of IoT, help students to develop & convert their IoT product idea into a working prototype, provide thorough working knowledge of Arduino and Node MCU Platforms, encourage students for being entrepreneurs and innovators by supporting them with investment and Mentorship.

The Convener for the workshop was Dr. C N Deshmukh, Head of Industrial Internet of Things (IIoT) Department.

The inaugural function was graced by Dr. Shirish Pattalwar HOD EXTC department as chief Guest, Dr. C N Deshmukh Convener for the workshop, Dr. Ankush Kadu, Prof Sharvari S Tantarpale and Prof. Karan S Belsare as Co-Ordinators of the workshop. The trainer for workshop was Prof. Neema Ukani as Industry Expert of industrial robotics and Automation & Swapnali Tagde as Mentor at NU intelligence Pvt. Ltd, the workshop comprises of 30% theory and 70% practical.

Head of the Dept. Prof. (Dr.) C. N. Deshmukh addressing the Inauguration function.

The workshop provided hands on experience to students for designing and developing the IoT based projects. Overall 53 Students registered for the workshop and performed the task in the group of four each; at the end of the workshop each group had designed and developed a IoT based project successfully.

Students demonstrating and discussing their project

__Students participating in the workshop__

The Schedule for the workshop is as follows:

Duration: Five days- 30 Hrs.
Day-1 (27 Mar 2024)

Sr.No.	Time	Topic
1.	10:00 A.M. to 11:30 A.M.	• Active and Passive Electronic Components identification • Introduction to Arduino • Types of Arduino Boards
2.	11:30 A.M. to 12.30 P.M.	• Arduino Uno, Nano Introduction • Board Breakdown • Pulse Width Modulation • Arduino Power Supply description
3.	12:30 P.M.to 01:00 P.M.	Break
4.	01:00 P.M. to 02:30 P.M.	• Installation of Arduino IDE • How To Program Arduino with Tinker CAD • First Arduino Program. • Arduino with tricolour LED, push button and buzzer • Serial Monitor usage of Arduino
5.	02:30 P.M. to 04:30 P.M.	• IR sensor introduction, pin out and applications • Object Counter Project using IR sensor interfacing with Arduino, LCD
6.	04:30 P.M. to 05:00 P.M.	• Questions and answers

Day- 2 (28 Mar 2024)

Sr.No.	Time	Topic
1.	10:00 A.M. to 11:30 A.M.	• LDR sensor introduction, pin out and applications • Smart Street Light project using LDR sensor interfacing with Arduino, LED, Buzzer
2.	11:30 A.M. to 12.30 P.M.	• MQ- 2 sensor introduction, pin out and applications • MQ- 2 sensor interfacing with Arduino, LCD
3.	12:30 P.M.to 01:00 P.M.	Break
4.	01:00 P.M. to 02:30 P.M.	• MQ- 135 sensor introduction, pin out and applications • Air Quality Monitoring project using MQ-135 sensor, Arduino, LCD
5.	02:30 P.M. to 04:30 P.M.	• Rain sensor introduction, pin out and applications • Rain Alarm project using Rain Sensor, Arduino, LED, Buzzer
6.	04:30 P.M. to 05:00 P.M.	• Questions and answers

Day- 3 (29 Mar 2024)

Sr.No.	Time	Topic
1.	10:00 A.M. to 11:30 A.M.	• Introduction of Relay, pin out and applications • Interfacing of Relay with Arduino
2.	11:30 A.M. to 12.30 P.M.	• DHT-11 sensor introduction, pin out and applications • Cold Storage Monitoring Project with DHT-11, Arduino, LCD
3.	12:30 P.M.to 01:00 P.M.	Break
4.	01:00 P.M. to 02:30 P.M.	• Sound sensor introduction, pin out and applications • Musical LEDs project using Sound Sensor, Arduino, LED
5.	02:30 P.M. to 04:30 P.M.	• Ultrasonic sensor introduction, pin out and applications • Blind Person's Assistance project using LED, buzzer, LCD and Arduino
6.	04:30 P.M. to 05:00 P.M.	• Questions and answers

Day-4 (30 Mar 2024)

Sr.No.	Time	Topic
1.	10:00 A.M. to 11:30 A.M.	• Introduction to the Internet of Things. • The Basics of Sensors & Actuators. • Basic Intro to NodeMCU & its Architecture. • Applications of IoT
2.	11:30 A.M. to 12.30 P.M.	• The IoT Platforms Available. • Programming fundamentals (C language, HTML) • Installation of the software for NodeMCU
3.	12:30 P.M.to 01:00 P.M.	Break
4.	01:00 P.M. to 02:30 P.M.	• IP address, Allocating IP address to machine, finding IP of your system.
5.	02:30 P.M. to 04:30 P.M.	• Programming and interfacing LED with NodeMCU, control from webserver.
6.	04:30 P.M. to 05:00 P.M.	• Questions and answers

Day-5 (31 Mar 2024)

Sr.No.	Time	Topic
1.	10:00 A.M. to 11:30 A.M.	• Interface DHT sensor to see data on web page.
2.	11:30 A.M. to 12.30 P.M.	• Introduction to Cloud server – Thingspeak. • Creating account and channel on Thingspeak server. • Programming DHT sensor to send data on Thingspeak server.
3.	12:30 P.M.to 01:00 P.M.	Break
4.	01:00 P.M. to 02:30 P.M.	• Programming MQ-2 sensor to send data on Thingspeak server.
5.	02:30 P.M. to 04:30 P.M.	• Programming LDR sensor to send data on Thingspeak server.
6.	04:30 P.M. to 05:00 P.M.	• Questions and answers

Valedictory Function was organized on 31st March 2024 in which all the participating students were awarded certificates. Further students also shared their views about the workshop. The vote of thanks was proposed by Prof. Sharvari Tantarpale.

Student Feedback regarding Workshop   *Valedictory Function*

24th April 2024
Guest Lecture: Salesforce Administration
Prof. Prashant Khobragade

The guest lecture on "*Unveiling the Power of Salesforce Administration in Modern Business*" was organized by Department of Industrial Internet of Things, Prof. Ram Meghe Institute of Technology & Research Badnera on 24th April 2024 at 09:00 AM to 10:00 AM. Prof. Prashant Khobragade, Assistant Professor, G. H. Raisoni College of Engineering, was invited to speak to students as a resource person on career transformation, which will enable them to make a major contribution to the success and expansion of any individual's organization. Prof. Karan Belsare introduce and extends a warm greeting to the Speaker. The head of the IIoT department, Prof. (Dr.) C. N. Deshmukh, welcomes the speaker with enthusiasm.

Students listening to the speaker

The speaker informed the students that as trailblazers continue to expand and have an impact on business, so too will the demand for Salesforce administrators. The research shows 148% job growth for admins in the past 5 years (US data) and a median U.S. salary of $86,000. It's a career path for people who love to learn and for professionals who enjoy using the latest technology. He explained how, so many companies across industries and of different sizes use Salesforce, including retailers, non-profiteers, financial services, healthcare providers, software companies, and businesses that

provide a service. The question answer session was conducted. Moreover, 41 students and all faculty members from the department were participated in the session. At the end Prof. K. S. Belsare proposed vote of thanks at the end of the session.

25ᵗʰ April 2024
Guest Lecture: Roles and Process of Product based company in IT Industry
Mr. Nilesh Gadekar

The guest lecture on "*Roles and Process of Product based company in IT Industry*" was organized by Department of Industrial Internet of Things, Prof. Ram Meghe Institute of Technology & Research Badnera on 25ᵗʰ April 2024 at 09:00 AM to 10:00 AM. Mr. Nilesh Gadekar, Nuvolo Technologies Pune, was invited to speak to students as a resource person on career in Product Based Company, which will enable them to vanguard of innovation, having the possibility for scalability, achieving real results, participating in collaborative innovation, and having the chance to have a long-lasting impact on industries . Prof. Karan Belsare introduce and extends a warm greeting to the Speaker. The head of the IIoT department, Prof. (Dr.) C. N. Deshmukh, welcomes the speaker with enthusiasm. The speaker emphasizes that we engage with various things that have become essential to our daily lives as we go about our daily routines. These items, which range from our cell phones to the vehicles we drive, are the fruit of the labour and commitment of product-based businesses. However, what precisely is involved in bringing these products to market?

Students listening to the speaker

He explained that Innovation and technology are important, but so are the various jobs in a product-based business that put in a lot of effort to see these goods through to completion. Students can therefore thoroughly can investigate/explore it. A question-and-answer session was held. Additionally, all of the department's faculty members and 29 students took part in the session. Prof. K. S. Belsare expressed a vote of gratitude to conclude the session.

Google Developer Student Clubs
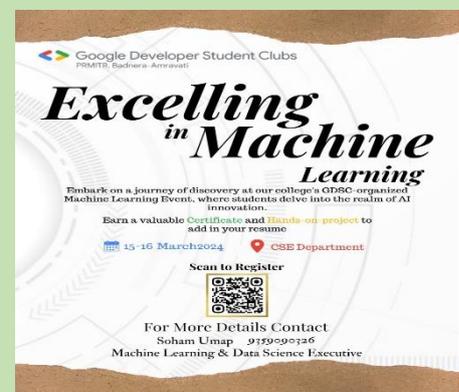# *P R M I T & R, Badnera*

GDSC leads are passionate about helping their peers learn technology and connect. Leads pursue various degrees within undergraduate and graduate programs, but have foundational knowledge about software development. In general, GDSC leaders are focused on the following areas:

Start a club - They work with the university or college to start a student club. After interviews they select a core team of students to work and faculty advisor to support to the students.

Ethical Hacking Workshop

Host workshops – In this, the knowledge on developer products and platforms through hands-on workshops are provided to the students to grow eventually.
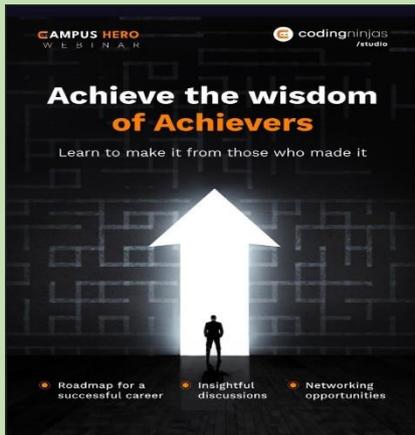

Excelling in Machine Learning Workshop

Webinar on Coding Ninjas Campus Hero

Girl Hackathon 2024

Build projects - They Identify local partners to work with and lead project building activities.

Workshops on Excellence in Machine Learning and ethical hacking were organised by GDSC club for students, events like Girls Hackathon 2024 for exploring the student's skills, webinars on Coding Ninjas Campus Hero and Achieve the wisdom on achievers took place under the activity. Mr. Krishna Samarth from Department of Industrial Internet of Things received excellence award from GDSC club.

Mr. Krishna Samarth of second year from Industrial Internet of Things department, received excellence award under the GDSC club. Prof. Ram Meghe Institute of Technology and Research Badnera achieved Tier 1 in Google's Gen AI study Jam 2024 for students Developers by working tirelessly and enthusiastically on the front end.

**Mr. Krishna Samarth while receiving the award**   _**Tier 1 Award achieved in Gen AI study Jam 2024**_