Institute Vision and Mission

Vision

Pune Institute of Computer Technology aspires to be the leader in higher technical education and research of International repute.

Mission

To be the leading and the most sought after institute of education and research in emerging engineering and technology disciplines that attract, retains and sustains gifted individuals of significant potential.
Department Vision and Mission

Vision

The department endeavors to be recognized globally as a centre of academic excellence and research in Information Technology.

Mission

To inculcate research culture among students by imparting information technology related fundamental knowledge, recent technological trends and ethics to get recognized as globally acceptable and socially responsible professionals.
From left to right, bottom to top:
- Prof. N. P. Sapkal, Dr. S. C. Dharmadhikari, Dr. A. M Bagade, Dr. A. S. Ghotkar, Dr. P. T. Kulkarni, Dr. S. T. Gandhe, Dr. S. B. Deshmukh, Dr. K. A. Sultanpure, Prof. S. S. Pande, Prof. A. A. Chavan
- Prof. R.S. Malpani, Ms. S G Patil, Ms. B M Deshpande, Prof. U A Joglekar, Ms. A M Kulkani, Prof. K Y Digholkar, Prof. D. S. Sapkal, Prof. S A Jakhete, Dr. A V Yenkikar, Prof. R A Karnavat
- Prof. S. R. Hiray, Ms. P P Verma, Prof. D P Salapurkar, Ms. S L Rane, Prof. R D Kapdi, Prof. P. S. Shinde, Prof. A A Patil, Prof. J. H. JadHAV, Prof. A. S. Kadam, Dr. J. B. Jagdale, Dr. Emmanuel M.
- Mr. B.S. Jadhav, Mr. R. Rao, Mr. S. R. Shelar, Mr. M. S. Shegokar, Prof. N. V. Buradkar, Prof. T. A. Rane, Prof. M. R. Khodaskar, Prof. J. K. Kanble, Prof. H. J. Jadhave, Prof. S. S. Shinde, Prof. G. S. Pise,
- Prof. A. C. Karve, Prof. V. R. Jaiswal, Prof. S. R. Warhade, Prof. R. B. Murumkar, Dr. A. A. Kadam
FROM DESK

PROUDLY PRESENTING THE NEWSLETTER 2023-24, II ISSUE FOR THE DEPARTMENT OF INFORMATION TECHNOLOGY. AS THE HEAD OF THE IT DEPARTMENT, I AM HONORED TO LEAD A TEAM OF DEDICATED AND WELL-QUALIFIED FACULTY MEMBERS WHO CONSISTENTLY DEMONSTRATE EXCEPTIONAL KNOWLEDGE AND EXPERTISE IN THEIR RESPECTIVE FIELDS.

AT THE CORE OF OUR EFFORTS IS THE DESIRE TO IGNITE YOUNG MINDS, ENCOURAGING THEM TO GENERATE INNOVATIVE IDEAS FOR PROJECTS AND RESEARCH. THE IT DEPARTMENT AT OUR INSTITUTE STRONGLY BELIEVES IN THE TRANSFORMATIVE POWER OF EDUCATION, AND WE ARE DEDICATED TO PROVIDING AN ENVIRONMENT THAT FOSTERS CREATIVITY, CRITICAL THINKING, AND TECHNOLOGICAL PROFICIENCY.

AS WE CONTINUE TO EVOLVE AND ADAPT TO THE DYNAMIC LANDSCAPE OF TECHNOLOGY AND EDUCATION, I AM CONFIDENT THAT THE IT DEPARTMENT WILL REMAIN A BEACON OF EXCELLENCE. I EXTEND MY GRATITUDE TO THE ENTIRE IT DEPARTMENT COMMUNITY FOR THEIR UNWAVERING COMMITMENT AND HARD WORK.

-DR. ARCHANA GHOTKAR
FROM DESK


I WOULD LIKE TO EXPRESS MY SINCERE THANKS TO OUR HEAD OF DEPARTMENT DR. A. S. GHOTKAR, FOR HER CONTINUOUS MOTIVATION, INPUT, AND SUPPORT FOR THIS NEWSLETTER ALSO I WOULD LIKE TO THANK PROF. ARCHANA KADAM AND PROF. AMRUTA PATIL FOR THE CONTENT FOR THE MAGAZINE. AND MY TEAM OF STUDENTS, SARVADNYAA AND NISHANT, FOR TIMELY DELIVERY OF THE NEWSLETTER.

-DR. JAYASHREE JAGDALE

IT NEWSLETTER 2023 ISSUE II
<table>
<thead>
<tr>
<th>DEPARTMENT ACTIVITIES</th>
<th>INDEX</th>
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<td>Placement</td>
<td>Value Added Programs</td>
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<td>Internships</td>
<td>Certificate courses</td>
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<tr>
<td>Project Development</td>
<td>Research and Consultancy</td>
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<td>Innovative Teaching</td>
<td>Research Publications</td>
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<tr>
<td>Professional Development Activities</td>
<td>Other Activities</td>
</tr>
<tr>
<td>Articles by Students</td>
<td>Achievements</td>
</tr>
</tbody>
</table>
Congratulations

Highest Package

47 Lacs

Placement Statistics AY 2023-24

Count

248

120

120

TOTAL STUDENTS
TOTAL PLACED
ABOVE 5 LAC

in Progress

Shraddha Pawar
(Adobe)
## PLACEMENTS

<table>
<thead>
<tr>
<th>Company</th>
<th>No. of students</th>
<th>Package in Lacs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adobe</td>
<td>1</td>
<td>47</td>
</tr>
<tr>
<td>PhonePe</td>
<td>2</td>
<td>33</td>
</tr>
<tr>
<td>BNY Mellon</td>
<td>2</td>
<td>21.64</td>
</tr>
<tr>
<td>Druva</td>
<td>2</td>
<td>20.1</td>
</tr>
<tr>
<td>Schlumberger</td>
<td>2</td>
<td>19.73</td>
</tr>
<tr>
<td>Deutsche Bank</td>
<td>3</td>
<td>19.63</td>
</tr>
<tr>
<td>BMC</td>
<td>4</td>
<td>14</td>
</tr>
<tr>
<td>ION</td>
<td>4</td>
<td>14</td>
</tr>
<tr>
<td>Tracelink</td>
<td>1</td>
<td>13.9</td>
</tr>
<tr>
<td>eQ Technologic</td>
<td>3</td>
<td>13.88</td>
</tr>
<tr>
<td>Barclays</td>
<td>19</td>
<td>13.7</td>
</tr>
<tr>
<td>Year</td>
<td>Placement %</td>
<td>Ongoing</td>
</tr>
<tr>
<td>----------</td>
<td>-------------</td>
<td>---------</td>
</tr>
<tr>
<td>2023-24</td>
<td>60.08%</td>
<td></td>
</tr>
<tr>
<td>2022-23</td>
<td>85.36%</td>
<td></td>
</tr>
<tr>
<td>2021-22</td>
<td>89.85%</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Program</th>
<th>Total Students</th>
<th>Above 5 Lac</th>
<th>Below 5 Lac</th>
<th>Total Placed</th>
</tr>
</thead>
<tbody>
<tr>
<td>UG</td>
<td>248</td>
<td>144</td>
<td>5</td>
<td>149</td>
</tr>
<tr>
<td>UG</td>
<td>246</td>
<td>205</td>
<td>5</td>
<td>210</td>
</tr>
<tr>
<td>UG</td>
<td>207</td>
<td>184</td>
<td>2</td>
<td>182</td>
</tr>
</tbody>
</table>
PLACEMENT

PLACEMENTS

Average Package: 13.47 LPA

- **2023-24**
  - Total Students: 248
  - Above 5 Lac: 184
  - Total Placed: 248

- **2022-23**
  - Total Students: 246
  - Above 5 Lac: 150
  - Total Placed: 184

- **2021-22**
  - Total Students: 184
  - Above 5 Lac: 205
  - Total Placed: 156
Congratulations

Highest Summer Internship Received
75K

Total Internship Offers Received
29*

* : Ongoing
# Internship 2022-23

## No. of Students

- **>=50K**: 0
- **<=50K & >=20K**: 20
- **>=20K**: 40
- **0**: 60
- **20**: 80
- **40**: 100

## Stipend Amount INR/month

- **>=50000**: 19
- **<50000 & >=20000**: 92
- **<52000**: 27
- **0**: 19
- **20**: 92
- **40**: 27
- **60**: 92
- **80**: 27
- **100**: 19

---

IT NEWSLETTER 2023-24 ISSUE II
# Congratulations

<table>
<thead>
<tr>
<th>Sr No.</th>
<th>Company</th>
<th>No. of students</th>
<th>Stipend</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bajaj Byte Spark</td>
<td>5</td>
<td>20,000</td>
</tr>
<tr>
<td>2</td>
<td>Barclays</td>
<td>6</td>
<td>75,000</td>
</tr>
<tr>
<td>3</td>
<td>BMC</td>
<td>9</td>
<td>8,000</td>
</tr>
<tr>
<td>4</td>
<td>MasterCard</td>
<td>4</td>
<td>40,000</td>
</tr>
<tr>
<td>5</td>
<td>Metro-GSC</td>
<td>3</td>
<td>10,000</td>
</tr>
<tr>
<td>6</td>
<td>Tracelink</td>
<td>2</td>
<td>35,000</td>
</tr>
</tbody>
</table>
## Project Development

<table>
<thead>
<tr>
<th>Company</th>
<th>Groups</th>
</tr>
</thead>
<tbody>
<tr>
<td>JyoSH AI Solutions Pvt Ltd</td>
<td>3</td>
</tr>
<tr>
<td>Huf</td>
<td>2</td>
</tr>
<tr>
<td>Algo analytics Pvt Ltd</td>
<td>1</td>
</tr>
<tr>
<td>Veritas</td>
<td>8</td>
</tr>
<tr>
<td>Rajiv Gandhi Sci. &amp; Tech. Commission, Govt. of Maharastra</td>
<td>1</td>
</tr>
<tr>
<td>University of Washington</td>
<td>1</td>
</tr>
<tr>
<td>SnowDesign</td>
<td>1</td>
</tr>
<tr>
<td>Carrot</td>
<td>1</td>
</tr>
<tr>
<td>Innothoughts</td>
<td>1</td>
</tr>
<tr>
<td>Shunya.Ek</td>
<td>1</td>
</tr>
<tr>
<td>Web3Sheild</td>
<td>1</td>
</tr>
<tr>
<td>Zepsys</td>
<td>2</td>
</tr>
<tr>
<td>Company</td>
<td>Groups</td>
</tr>
<tr>
<td>-----------</td>
<td>--------</td>
</tr>
<tr>
<td>Databahn</td>
<td>1</td>
</tr>
<tr>
<td>L3Cube</td>
<td>1</td>
</tr>
</tbody>
</table>
FLIPPED CLASSROOM

OBJECTIVE:
Students should learn the topics through innovative teaching.

- **Steps to conduct flipped classroom activity**
  Assigned the topic to students for preparation
  1. Related topics were already taught to students in previous lectures, so students took active participation in the activity.
  2. Students referred You Tube videos for preparation & prepared within 20 min approximately.
  3. 2 to 3 students come forward for explanation and solved the examples related to the topic on the black board.

Total Registration till Date: 30

13th September 2023
for TE 11 IT students
Venue: A3-308
Co-ordinator: Mrs. Deepali Salapurkar

PAPERLESS DAY ACTIVITY:
INNOVATIVE TEACHING: FLIPPED CLASSROOM
OBJECTIVE:

- To help students get familiar with the Hackerrank platform and its features.
- Students will learn the importance of time management during coding competitions.
- To promote healthy competition and peer learning among the students.
- To encourage students to participate in coding contests and competitions.
- To equip students with skills and knowledge that will be valuable in their internship and placement opportunities.

JAVA CODING COMPETITION

4 November 2023
for SE 11 IT students

Co-ordinator:
Mrs. Amruta Patil
TECHNICAL DUMB CHARADES

13th Sept 2023
for TE IT students

Co-ordinator:
Dr. Archana Ghotkar

Total Registration till Date : 67
PROFESSIONAL DEVELOPMENT ACTIVITIES

OBJECTIVE:
Creative Thinking, Understanding User Requirements, Team Work, Applying HCI Principles, Time Management

PROTOTYPE DESIGN EXHIBITION CUM COMPETITION FOR WALLET/PURSE
CELEBRATION OF COLOURS
A view Sharing Session on Journey to Fetch Top Job Opportunities For SE Students

- Inspire and motivate through success stories.
- Provide insights into how to fetch the top job opportunities.
- Share interview experiences and skill development insights.
- Address concerns, network, and offer industry guidance.

27 August, 2023
No. of Participants: 80+

Resource Persons:
Gargi Mhaskar, Mastercard
Haripriya Kulkarni, TIAA
Mokshad Vaidya, Tracelink
A view Sharing Session on Journey to Fetch Top Job Opportunities For TE Students

- Align career aspirations through an interactive offline session
- Develop personalized career paths via self-assessment and analysis
- Share insights from successful student’s job acquisition journeys.
- Provide techniques for juggling placement prep and studies effectively
- Explore placed students’ insights on coding, problem-solving, and voding significance.

4 August, 2023

No. of Participants: 180+

Resource Persons:
Mr. Darshan Bhandari
Mr. Aditya Agrawal
Mr. Jamshed Damania

IT NEWSLETTER 2023 ISSUE II
Teach success story: Empowering women from campus to career
For Female students

- To focus on skill development, providing practical insights and guidance to help female IT students.
- To share interview experiences and skill development insights.
- To offer valuable career exploration and guidance
- Inspire and motivate through success stories.

12 September, 2023

No. of Participants: 76

Resource Persons:
Miss. Shraddha Uchit Pawar, BE Students having PPO offer of 47 LPA from Adobe, BE(IT), PICT, Pune
PROFESSIONAL DEVELOPMENT ACTIVITIES

CodeCraft Challenges: A Coding Competition

For SE Students

- To help students to get familiar with the HackerRank platform and its features.
- To provide guidance and tips for effectively tackling coding challenges and competitive programming questions.
- To promote healthy competition and peer learning among our students.
- To encourage students to participate in coding contests and competitions.
- To equip students with skills and knowledge that will be valuable in their internship and placement opportunities.

4 November, 2023
No. of Participants: 232
GUIDANCE SESSION

OBJECTIVE:

- Understanding GRE and IELTS:

- Deconstructing the GRE: Explore the Structure and Components of the GRE exam.

- Deciphering IELTS and TOEFL: Key Aspects and Test Structure of IELTS and TOEFL.

17 October 2023

Speaker: Mr. Ayush Gala
PICT CE, 2024

GEAR UP TO STUDY ABROAD
Let’s Upgrade For Placements For TE Students

- Learn how to build a resume for specific job or internship requirements.
- Develop leadership skills and the ability to work effectively in diverse groups.
- Practice effective participation and moderation in group discussions.
- Learn how to prepare for different types of interviews (e.g., technical, behavioural).
- Develop the ability to adapt communication style to different audiences.
- Learn techniques for structuring and delivering effective presentations.

Speaker: Mr. Chirag Shah
Leadership & Business Coach, Pan-India Corporate Trainer, Motivational Speaker, Mentor, Consultant
Let’s Upgrade For Placements

Co-ordinators:
Mr. Hrushikesh Joshi
Mrs. Amruta Patil
Mrs. Snehalata Rane

18, 19, and 20 October, 2023

No. of Participants: 255+
Brain Computer-Interface (BCI) is an intriguing yet controversial topic as one of its goals is to directly “wire-up” computer chips to human brains. One such example is the company Neuralink, founded by entrepreneur Elon Musk, which envisions to achieve “a merger with artificial intelligence”. Brain implants interfere with the natural brain-human interaction evidently, the intersection of human brains and machines opens up a complex landscape, one with wide possibilities and serious ethical questions.

The BCI technology isn't entirely new, as it has been instrumental for patients distressed with neurological disorders. For instance, this technology enables a person suffering from a severe spinal injury, to regain their ability to communicate. Even “deep brain simulation” (DBS) is regularly used to alleviate severe symptoms like tremor or vigor in patients suffering from Parkinson’s disease when medication is ineffective.

Research in the field of neurotechnology is taking place at a rapid pace. Now BCI can translate neural signals into sentences at speed a of a normal conversation (150 words per minute). The company Neuralink has received a green flag to conduct human clinical studies from the US FDA. Considering the pressing issues, UNESCO had held a global dialogue on the ethics of neurotechnology, in 2023.

Currently research seeks to optimize the long-term stability and biocompatibility of such brain implants to make them viable not only for healthcare but also for enhancing human capabilities. A whole new spectrum of possibilities arises when BCI is used to record and stimulate various regions of the brain to interact with machines with just a thought. However, for this to work in sync with the human brain, in order to improve efficiency and reduce the inevitable side effects of the interference, the idea is to make the electrical stimulations dependent on the actual brain activity. The latter is recorded online, thus making real time communication possible not only with machines but eventually with other brains too. This closes the loop.

Stimulation amends activity, activity influences stimulation. So, the neural-chip has to be constantly learning from the brain. The goal is for the system to “know” what the human being would do in a particular situation. However, isn't that the problem too? The neural-chip could record, retrieve and manipulate more detailed and voluminous data about what is going on “inside” a person's mind. If thoughts can be used as data, can data they want, be propped in individual minds too? This leads to concerns regarding the privacy and safety of individuals.

Today businesses revolve around data. IT conglomerates thrive on the data they possess. Neural data- which captures individual’s basic reactions and emotions are in high demand in the consumer market. If office computers, mobile phones and industrial facilities can be “hacked” and taken over by viruses or Trojan – why would this not be possible for a brain computer interface?

Sensitive information can be extracted to blackmail persons in power, ground-breaking ideas could be stolen from thoughts itself! If hacked, what physical and psychological damage could the user face? Another major concern is the malfunction of the neural chip. Is healthcare upgraded enough to handle this? Could inserting such computer chips in the brains of children and teenagers, interrupt the “normal” maturation of the brain?

If a negative action were to be carried out by a human while using the BCI, like a car accident automated by the neural-chip, would it be the user's fault or the fault of technology? Is our judicial system even remotely equipped to deal with such situations? As evolvement in implant technology is majorly taking place in the US and Europe, ushering the creation of “super-human”. Wouldn't this widen the gap between countries and increase inequalities pushing for a “super-human” rat race?

As we advance towards a future where the “human” and the “machine” will closely interface, clear policies become imperative as our guardrails of safety. In our attempt, we should make ourselves aware of the notions of “person” and “personal identity”, which are the most relevant criteria for the ethical evaluation of intervening technology. The future will show if we eventually become cyborgs and look back on this very point as the deciding junction. But the discussion on whether we need to get technological devices “plugged” in our brains and at what cost, must begin today.
An open-source project is one whose codebase is publicly available, such as Linux, React, and various other software solutions. For a considerable time, many web-related projects utilized the MERN stack, consisting of MongoDB, Express, ReactJS, and NodeJS. However, over the past two years, there has been a notable shift towards adopting NextJS, a framework introduced by Vercel, a renowned hosting services company.

NextJS, built on top of ReactJS, has emerged as a game-changer in web development by addressing several existing challenges. Its rapid adoption can be attributed to unique features like tackling the waterfall issue and providing server-side rendering capabilities.

To understand the impact of NextJS, let’s consider a large codebase for a significant website. In the past, users often experienced screen flashes, resulting in delayed loading times for components such as the app bar. This issue, known as the waterfall effect, has been efficiently mitigated by NextJS, ensuring minimal screen flashes, if any.

One pivotal feature of NextJS is its server-side rendering capability. Regardless of the framework used, a server ultimately delivers HTML, CSS, and JavaScript understood by the browser. With NextJS, when a client requests a particular webpage, the framework renders the necessary content on its server, including images. The HTML, CSS, and JavaScript for the image are then included in the response, eliminating the need for the client machine to render it. This approach significantly reduces the waterfall effect, enhancing overall performance.

Another noteworthy aspect of NextJS is its SEO optimization power. SEO, or search engine optimization, determines how websites are ranked on search engines like Google. NextJS, by rendering content on its server, allows search engines to automatically rank websites based on keywords present in the HTML returned from the NextJS server. This capability enhances SEO and aids in efficient scraping through websites.

NextJS also simplifies development by enabling the integration of both backend and frontend code within a single application. In the past, the backend and frontend were treated as separate entities, lacking a common structure. NextJS bridges this gap, providing developers with a unified platform.

Additionally, NextJS supports TypeScript and includes TailwindCSS by default, offering added convenience for developers. Being a React framework for the web, NextJS builds upon React’s features, introducing enhancements such as server-side rendering.

Considering that NextJS runs the backend on its server, developers can deploy NextJS applications with their backend for free on the NextJS server for low-scale usage.

In conclusion, the rapid adoption of NextJS by open-source projects can be attributed to its ability to address common issues in web development, such as the waterfall effect, server-side rendering, SEO optimization, and the integration of backend and frontend code. With its user-friendly features, NextJS is proving to be a valuable asset for developers seeking efficient and streamlined solutions in the dynamic landscape of web development.

-TANISH CHARTHANKAR, SE IT

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-TANISH CHARTHANKAR, SE IT
Machine learning is a field of study associated with statistical data, imitating the way that humans learn which gradually increases the accuracy in predicted missing data (result). Machine learning models are trained with specific datasets passed through the algorithm. Each time when all the training dataset is passed through an algorithm, it is known as an epoch. Another way to define an epoch is the number of passes a training dataset takes around an algorithm. Learning algorithms take hundreds or thousands of epochs to minimize the error in the model to the greatest extent possible. The number of epochs may be as low as 10 or high as 1000 and more. A learning curve can be plotted with the data on the number of times and the number of epochs. Each epoch increases the accuracy of the model on training data set. Does this mean that more the number of epochs, higher the model's real accuracy?? Let's understand it with an example:

A farmer is working on his farm with a single crop every season. If he has only experienced less no of seasons then he can make mistakes as he is a newbie in this profession. Here comes the situation of under-fitting.

Now assume he is working with the same crops now for a decade. Would he be able to work with a new crop? No! Here comes the issue of over-fitting.

Too low a value causes under-fitting, which leads to inaccurate predictions on both training data and test data. Too high a value causes overfitting, which causes accurate predictions on training data, but inaccurate predictions on test data (which is what we care about).

To tackle this problem, we need to find the exact number of epochs required.

Method

Validation error (Errors which arise while working on the validation dataset) is the main key to this answer as long as the validation errors in the model are decreasing we can go forward with more epochs. So do we need to check the validation errors after each epoch? No! This is practically impossible for a large number of epochs.

Here comes the solution: To adjust early stopping rounds which means no of rounds for which the errors are arising in series for stopping the epochs. Here comes the important point: Validation errors might increase for one epoch and decrease in the next so we should assign it's value carefully.

[THERE METHODS IS ALSO USED IN NEURAL NETWORK AND DEEP LEARNING]
Let’s Upgrade For Placements For SE Students

- Develop public speaking skills.
- Learn how to build a resume for internships and placements.
- Practice effective participation and moderation in group discussions.
- Prepare for technical and behavioural aspects of interviews.
- Develop the ability to adapt communication style to different audiences.
- Learn techniques for structuring and delivering effective presentations.

No. of Participants: 250+

26, 27, and 28 October, 2023

Speaker
Mr. Chirag Shah
Leadership & Business Coach, Pan-India Corporate Trainer, Motivational Speaker, Mentor, Consultant
Tools and Techniques for Project Development and Management
For BE-IT Students

To get familiar with
- The need and challenges of project development and management
- Process of project Management in industry
- Agile Project Management
- Tools for Project Management and their demonstration

15 September 2023

No. of Participants: 172

Speakers
Mr. Arun Kadekodi
Co-founder and CEO of Soft Corner Pune

Dr. Rohan Kadekodi
Department of Computer Science Uni of Texas at Austin
Effective Research Paper Writing

For BE-IT Students

To get familiar with
- Types of Technical Papers, Topic Selection, Structure of Research Paper, Ethics in research paper
- Paper publication, Indexing citations, Different types of papers, Effective techniques for technical writing

15 September 2023

No. of Participants: 120

Speaker

Dr. Sudeep D. Thepade
Chairman BoS, Information Technology, SPPU, Pune
VALUE ADDED PROGRAM

50 Hours Course on “Technological Insights in Data Science”

- To provide the participant enough exposure to the variety of applications that can be built using ML & DL techniques
- To get exposure to Hadoop & big data analytics

9 September to 14 October 2023

No. of Participants: 26
Out of Maharashtra: 4

Resource Persons:
Mr. Yogesh Murumkar, Director, Bharat soft solutions
Dr. Archana Ghotkar, PICT
Dr. Shweta Dharmadhikari, PICT
Mrs. Kirti Digholkar, PICT
Mrs. Archana Kadam, PICT,
Mrs. Prajakta Shinde, PICT
Ms. Sumitra Jakhete, PICT
Ms. Rachna Karnavat, PICT
Mrs. Swapnaja Hiray, PICT
VALUE ADDED PROGRAM

40 Hours Bridge Course C++ Programming Language

- Start by grasping the fundamental concepts of C++
- Gain a deep understanding of object-oriented programming principles and techniques in C++
- To familiarize with the standard library, memory management and performance Optimization in C++

21 August to 15 September, 2023

From Maharashtra: 75
From PICT: 48

Resource Persons:

Mr. Somnath Jagadale. Senior Software Developer, Mobileum Technologies, Mumbai
Mr. Amit Borkar, Technology Consultant
Prof. Tushar Rane, PICT
Prof. Jyoti Jadhav, PICT
Prof. Abhijit Karve, PICT
Prof. Kirti Digholkar, PICT
Prof. Amruta Patil, PICT
Prof. Deepali Salapurkar, PICT
Prof. Archana Kadam, PICT
One Day Workshop on A Starter Kit for Scrum Master using JIRA

- To provide a comprehensive understanding of Agile principles, Scrum methodology and practical JIRA usage
- To enable effective teamwork, problem-solving, and the application of Agile concepts in project
- To provide aspiring Scrum Masters with the knowledge and guidance needed to pursue certification and excel in their roles
- To demonstrate how JIRA can accelerate Agile journey with hands-on

23 September, 2023

Total Registration: 42
Faculties outside PICT: 11

Resource Persons:
Ms. Saraswati Khade, Scrum Master, Amdocs, Pune
Mrs. Amruta Patil, Asst. Professor, PICT, Pune
VALUE ADDED PROGRAM

Awareness session on C-DAC’s Basic Certificate Course in AI
For TE-IT Students

- To provide a comprehensive understanding of Agile principles, Scrum methodology and practical JIRA usage
- To enable effective teamwork, problem-solving, and the application of Agile concepts in project
- To provide aspiring Scrum Masters with the knowledge and guidance needed to pursue certification and excel in their roles
- To demonstrate how JIRA can accelerate Agile journey with hands-on

14 September 2023

Total Registration: 42
Faculties outside PICT: 11

Resource Persons:
Ms. Saraswati Khade, Scrum Master, Amdocs, Pune
Mrs. Amruta Patil, Asst. Professor, PICT, Pune

IT NEWSLETTER 2023 ISSUE II
<table>
<thead>
<tr>
<th>Certification Course, Workshop</th>
<th>Participants</th>
<th>Hours</th>
<th>Dates</th>
<th>Fund Generated in Rs.</th>
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<tr>
<td>Certificate course on &quot;Technological Insights in DataScience&quot;</td>
<td>26</td>
<td>50</td>
<td>9/09/2023 to 14/10/2023</td>
<td>Rs.13000/-</td>
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<tr>
<td>Bridge course on C++ Programming Language</td>
<td>75</td>
<td>40</td>
<td>21/08/2023 to 15/09/2023</td>
<td>Rs.37500/-</td>
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<tr>
<td>A one day workshop on &quot;A starter kit for scrum Master using JIRA&quot;</td>
<td>42</td>
<td>6</td>
<td>23/09/2023</td>
<td>Rs.4200/-</td>
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</tbody>
</table>
## RESEARCH AND CONSULTANCY

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Title</th>
<th>Funding Agency</th>
<th>Sanctioned Amount in Rs.</th>
<th>Status</th>
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</thead>
<tbody>
<tr>
<td>Dr. Jayashree Jagdale</td>
<td>An e-learning, Recognition and Assessment platform in Indian Sign Language</td>
<td>RGSTC Govt. of Maharashtra</td>
<td>9800000/- (0.98 Cr)</td>
<td>Ongoing</td>
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<table>
<thead>
<tr>
<th>Name</th>
<th>Project Title</th>
<th>Status</th>
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<tbody>
<tr>
<td>Dr. A. M. Bagade</td>
<td>IoT based Physical Movement Monitoring and Early Identification of Dementia based on wandering patterns for the Elderly</td>
<td>Submitted</td>
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<tr>
<td>Name</td>
<td>Client Organization</td>
<td>Title of consultancy of project</td>
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<tr>
<td>--------------------------</td>
<td>---------------------</td>
<td>-------------------------------------------------------------------</td>
</tr>
<tr>
<td>Dr. Archana Ghotkar</td>
<td>Sameer Ardent Privacy Ltd</td>
<td>For Privacy system: classification of structured and unstructured data</td>
</tr>
<tr>
<td>Mr. Vishal R. Jaiswal</td>
<td>Huf India Private Ltd</td>
<td>Gemba Walk Application</td>
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## RESEARCH AND CONSULTANCY: MOU

<table>
<thead>
<tr>
<th>Name of company</th>
<th>Date of signing</th>
<th>Duration of MoU</th>
<th>SPOC</th>
<th>Objectives</th>
<th>Activities under MoU</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-DAC Pune and NASSCOM</td>
<td>19-05-2023</td>
<td>2 years</td>
<td>Dr. A. S. Ghotkar/ Dr. S. C. Dharmadhikari</td>
<td>Hub and Spoke model for AR/VR and AI under C-DAC NASSCOM FutureSkill PRIME Program</td>
<td>120 hrs of certification course</td>
</tr>
<tr>
<td>JyoSHAI Soultions Pvt.ltd.</td>
<td>08-09-2022</td>
<td>3 years</td>
<td>Mrs. R. A. Karnavat</td>
<td>Sponsored Lab</td>
<td>Internship and BE projects</td>
</tr>
<tr>
<td>NTTData</td>
<td>27-07-2022</td>
<td>1 year</td>
<td>Dr. A. M. Bagade</td>
<td>Internship</td>
<td>Internship at Japan for students</td>
</tr>
<tr>
<td>Mithi Software</td>
<td>07-10-2021</td>
<td>3 years</td>
<td>Mr. M. R. Khodaskar</td>
<td>Internship, placement, support for entrepreneurship</td>
<td>BE-Project</td>
</tr>
<tr>
<td>Name of company</td>
<td>Date of signing</td>
<td>Duration of MoU</td>
<td>SPOC</td>
<td>Objectives</td>
<td>Activities under MoU</td>
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<tr>
<td>MasterCard Technology Pvt. Ltd.</td>
<td>17-05-2022</td>
<td>3 years</td>
<td>Dr. A. M. Bagade</td>
<td>Collaboration And Research</td>
<td>Sponsored Projects 5G, Consultancy Project under process</td>
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<tr>
<td>Veritas</td>
<td>01-05-2021</td>
<td>2 years</td>
<td>Dr. A. M. Bagade</td>
<td>Project Development, Consultancy</td>
<td>Sponsored project-10 (Completed)</td>
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<tr>
<td>Algo Analytics</td>
<td>07-04-2021</td>
<td>2 years</td>
<td>Mr. M. R. Khodaskar</td>
<td>Project-Based Seminar (TE- PBS) with Final Year Project for UG students, Internship opportunities and Final Placements for UG/PG students</td>
<td>Sponsored projects-Internships</td>
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</table>
## RESEARCH PUBLICATION


2. Patents:

<table>
<thead>
<tr>
<th>Name</th>
<th>Title of patent</th>
<th>Patents Published</th>
<th>Status of patent</th>
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<tbody>
<tr>
<td>Dr. Shyam Deshmukh</td>
<td>Machine Learning based Health Monitoring Wearable Device</td>
<td>04-07-2023</td>
<td>Published</td>
</tr>
<tr>
<td>Dr. Archana S. Ghotkar</td>
<td>Video Conferencing Utility for the Deaf and Dumb</td>
<td>09-07-2023</td>
<td>Published</td>
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<tr>
<td>Dr. Emmanuel M.</td>
<td>Recommendation System using context &amp; User actions</td>
<td>31-08-2023</td>
<td>Granted</td>
</tr>
</tbody>
</table>
DEPARTMENT ACTIVITIES

The objective of this event –

● To provide the platform to the students to get insights into their seminar topic

● To find the possible problem statements for final year project

● To minimize the gap between academia and industry for final year project implementation based on industry

POSTER PRESENTATION ACTIVITY SEMINAR TOPICS (ALL TE IT STUDENTS)
DATE: 14/10/2023
DEPARTMENT ACTIVITIES

Poster Presentation Activity Contd.

Pune, MH, India
Chandrabhaga Nagar Road, Dhankawadi, Pune, 411046, MH, India
Lat 18.458065, Long 73.850893
10/14/2023 02:28 PM GMT+05:30
Note : Captured by GPS Map Camera
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<th>Year</th>
<th>Date</th>
<th>No. of participating students</th>
<th>No. of judges</th>
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<tr>
<td>2023-24</td>
<td>14/10/2023</td>
<td>Registrations:104 Selected Posters:30 Presented:22</td>
<td>5</td>
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<tr>
<td>2022-23</td>
<td>29/10/2022</td>
<td>Registrations:23 Posters Presented:09</td>
<td>8</td>
</tr>
<tr>
<td>2020-21</td>
<td>22/05/2021</td>
<td>07(53groups)</td>
<td>10</td>
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</table>
DEPARTMENT ACTIVITIES
Poster Presentation Activity Contd.

RUDRAKSH KHANDELWAL
1ST PRIZE

AARAV NAIR
2ND PRIZE

NAMAN LABHSETWAR
3RD PRIZE

IT NEWSLETTER 2023 ISSUE II
DATE: 28TH OCTOBER 2023
MODE: HYBRID
RESULT ANALYSIS

SE RESULT 87.45%

- TOT STUD: 255
- Dist: 113
- FC: 85
- HSC: 17
- SC: 8
- ATKT: 26

TE RESULT 92.34%

- TOT STUD: 248
- All Clr: 229
- Dist: 213
- FC: 16
- HSC: 12
- SC: 7
- ATKT: 7
- FAIL: 5

BE RESULT 97.97%

- TOT STUD: 246
- Dist: 235
- FC: 6
- HSC: 5
- SC: 5
- ATKT: 5
- FAIL: 5

2022-23

IT NEWSLETTER 2023 ISSUE II
### Final Year

<table>
<thead>
<tr>
<th>Rank</th>
<th>Name</th>
<th>Score</th>
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<tbody>
<tr>
<td>1</td>
<td>Jain Samyak</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>Bhavesh Oswal</td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>Harish Verma</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>Bajaj Anushree Shrigopal</td>
<td>10</td>
</tr>
<tr>
<td>5</td>
<td>Dhavale Yash Yogesh</td>
<td>10</td>
</tr>
<tr>
<td>6</td>
<td>Patil Kartik Tushar</td>
<td>10</td>
</tr>
<tr>
<td>7</td>
<td>Pendse Riya Abhijit</td>
<td>10</td>
</tr>
<tr>
<td>8</td>
<td>Rathi Garima Sharadkumar</td>
<td>10</td>
</tr>
<tr>
<td>9</td>
<td>Sonawane Pratik Ravindra</td>
<td>10</td>
</tr>
<tr>
<td>10</td>
<td>Shahare Titiksha Sunil</td>
<td>10</td>
</tr>
</tbody>
</table>

### Rank Holders

- Jain Samyak 10
- Bhavesh Oswal 10
- Harish Verma 10
- Bajaj Anushree Shrigopal 10
- Dhavale Yash Yogesh 10
- Patil Kartik Tushar 10
- Pendse Riya Abhijit 10
- Rathi Garima Sharadkumar 10
- Sonawane Pratik Ravindra 10
- Shahare Titiksha Sunil 10
RESULTS ANALYSIS

THIRD YEAR
1. BARATE SARVADNYAA  10
2. BANASURE ATHARVA  10
3. JADHAV SHANTANU  10
4. PATIL VISHAL
5. KOKATE TANMAY
6. THOKAL SAMIR
7. SHRAVANI PINGALE
8. THORAT SHIVANJALI
9. KHANDELWAL RUDRAKSH
10. AGRAWAL PURVEE

SECOND YEAR
1. KATKAMWAR SAHIL  10
2. ADAM ANKITA  10
3. LAGAD SAYALI  10
4. SHAH MAHI MUKESH
5. JADHAV SWIKAR KIRAN
6. BOCHARE CHETAN UMESHRAO
7. PATIL SEJAL KAILAS
8. KHAIRE SHUBHAM ANIL
9. MONE SHRUTI MAHESH
10. PHATAK SOHAM SACHIN

IT NEWSLETTER 2023 ISSUE II
Dr. Shweta Dharmadhikari has been selected as Member Board of Studies IT, SPPU, Pune.
Congratulations

Mrs. Kirti Y. Digholkar has completed IUCEE’s International Engineering Educator Certification Program with Distinction.
ACHIEVEMENTS

Following staff has successfully completed 2 weeks “Train the Trainer Program on AI” under ‘FutureSkills PRIME’ Programme, C-DAC Pune.

Dr. Archana Ghotkar
Dr. J. B. Jagdale
Mr. R.B. Murumkar
Mrs. P. S. Shinde
Mrs. S. R. Hiray
Mrs. A.S. Kadam
Mrs. D. P. Salpaurkar

FACULTY COMPETENCIES
ACHIEVEMENTS

Following staff has successfully Completed 2 weeks “Training the Trainer Program on AR/VR” by C-DAC Pune.

Mrs. K. Y. Digholkar
Mrs. R. A. Karnavat
Mrs. J. H. Jadhav
Mrs. A. A. Patil
The following staff attended 3-day UHV-ISelf-Funded offline workshop - “AICTE Incorporating Universal Human Values in Education (An AICTE Initiative)”

Dr. Archana Ghotkar
Dr. Anant Bagade
Mr. Manish Khodaskar
Dr. Shyam Deshmukh
Mr. Sachin Pande
Ms. Rachna Karnavat
Mr. Vishal Jaiswal
Mr. Ravindra Murumkar
Mr. Sandeep Warhade
## ACHIEVEMENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mrs. Rachana Karnavat</td>
<td>Deep Learning</td>
</tr>
<tr>
<td>Mr. Tushar Rane</td>
<td>Cyber Security and Privacy</td>
</tr>
<tr>
<td>Mrs. Deepali Salapurkar</td>
<td>Theory of Computation</td>
</tr>
<tr>
<td>Mr. Sandip Wharade</td>
<td>Automation in Manufacturing</td>
</tr>
</tbody>
</table>
PARTICIPATION IN HACKATHON

Winner of COEP's Mindspark 2023

Student Name: Om Nikam

Sponsored by: Tata Power, Tata group

Format: 24 hours offline

Problem statement: EnergyVista Blitz: 16-bit Open-source gamification hackathon Challenge
ACHIEVEMENTS

PARTICIPATION IN HACKATHON

Manasi Lavekar Qualified for finale in All India Women Hackathon

CERTIFICATE
OF FINALE QUALIFICATION

This certificate is proudly presented to:

Team Hackirls

Team members: Manasi Kailas Lavekar, Apoorva Jha, Aarushi, Vaishnavi Arun Mahale, Shrvani Uday, Kamthankar, Siddhi Bapu Ove

FOR QUALIFYING IN THE ABSTRACT SHORTLISTING ROUND AND PARTICIPATING IN THE FINALE OF THE ALL INDIA WOMEN ONLY HACKATHON’23 ORGANISED BY SHOOTING STARS FOUNDATION, SPONSORED BY PERSISTENT FOUNDATION AND SUPPORTED BY CORPORATES SUCH AS IBM, TCS, COGNIZANT, YES BANK, PERSISTENT SYSTEMS, CITRIX (CLOUD GROUP), PAYPAL, GENESYS AND MANY MORE

LATHA NARAYANAN
CEO, SHOOTING STARS FOUNDATION
ACHIEVEMENTS

EXCELLENCE IN CULTURAL EVENTS

ICONCLAVE IIIT PUNE 2023

First Runner UP
(Dance Competition)

Unnati Rathi  (SE IT)
Mira Sharma  (SE IT)
Shravani Pingale  (TE IT)
Dhanashri Gawai  (TE IT)
Vaishnavi Thakur  (TE IT)
Shrinesh Kamble  (TE IT)
DESIGN AND CONTENT

Sarvadnyaa Barate  Nishant Tanksale

MENTOR

Dr. Jayashree Jagdale

020-24371101 EXT: 400
hodit@pict.edu
Building 'A3', PICT, Pune