



**SIPNA COLLEGE OF
ENGINEERING & TECHNOLOGY,
AMRAVATI**

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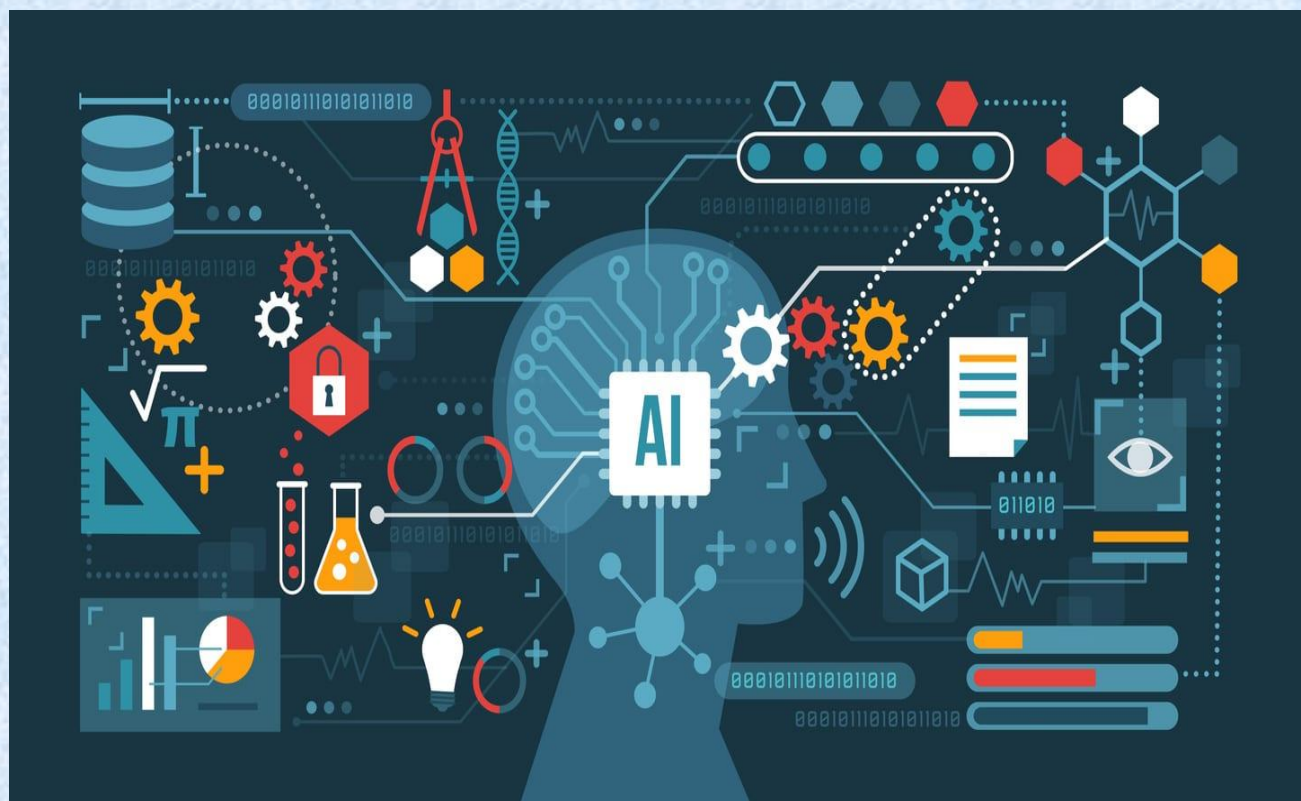
Department of Information Technology

TECHNOCRAT

Departmental Newsletter

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COVER STORY
ARTIFICIAL INTELLIGENCE



**SIPNA COLLEGE OF ENGINEERING AND
TECHNOLOGY, AMRAVATI.
DEPARTMENT OF INFORMATION TECHNOLOGY**

Editor

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TECHNOCRAT

Inside this Issue

About Department	Pg. 3
Objectives, Vision and Mission of Department	Pg. 3
Program Educational Outcomes and Program Outcomes	Pg. 4
Program Specific Objectives	Pg. 5
Cover Story: Artificial Intelligence Bridging Gaps of Technology	Pg. 6
Seminars and Workshops taken under Student Activity	Pg. 9
Placement	Pg. 11
About Institution	Pg. 12

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About Department

- *Use of Information Technology is growing in the Government and industrial sector. The multi-national companies are building applications based on Cutting Edge Technology. They are using IT in their operations and decision making. Due to this exponential growth, computer user community is facing shortage of manpower, trained in developing quality solutions, and planning for long term IT requirements. The need for human resources in the IT industry is being addressed at various levels.*
- *Some degree programs are available at various universities, which are providing required technical manpower in IT industries of the country. These degree programs focus mainly on entry level knowledge, whereas the IT industry needs and much more refined skills for training, research and development. Our IT branch provides sophisticated academic program that will have the necessary depth and focus to meet the needs of both the user and the IT industry.*
- *The following UG, PG and Ph. D. programs are offered by the college.*

<i>Undergraduate</i>	<i>Post Graduate</i>	<i>Doctorate of Philosophy</i>
<input type="checkbox"/> <i>B. E. (Information Technology)</i> <i>120 seats</i>	<input type="checkbox"/> <i>M. E. (Information Technology)</i> <i>18 seats</i>	<input type="checkbox"/> <i>Ph. D. (Information Technology)</i>

Objectives

- *Create leaders, trend-setters for the next generation of the IT industry.*
- *Offer state-of-art information technology education.*
- *Train individuals who would contribute substantially to the ambitious IT goals of the country.*
- *Undertake joint R & D with IT industry.*
- *Contribute to large developmental projects in government and public sector.*
- *Help the industry to create infrastructure that would facilitate the Indian IT industry.*

Vision of Department

- *Provide socially enriched and professional environment to transform the students into globally competent IT engineers*

Mission of Department

- *Provide learning ambience to impart quality technical education for students to develop into globally competent technology professionals.*
- *Prepare the students with strong fundamental concepts, analytical capability and problem solving skills.*
- *To provide a dynamic learning environment that emphasizes open ended design, team work, leadership and employability skills.*
- *To prepare graduates with positive professional attitude and ethical values with spirit of social commitment.*

Programme Education Outcomes

Engineering Graduates will be able to:

PEO.1:

Analyze and solve real-life problems through application of Information Technology and fundamental knowledge of mathematics and science courses

PEO.2:

Succeed in diversified and applied areas with analysis, design and synthesis of data to create novel products and solutions to meet current industrial and societal needs.

PEO.3:

Endure higher studies, research activities, and entrepreneurial skills and continue with lifelong learning.

PEO.4:

Adhere to professional and ethical values, soft skills, teamwork and communication.

Programme Outcomes

Engineering Graduates will be able to:

PO1: Engineering knowledge:

Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: Problem analysis:

Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences

PO3: Design/development of solutions:

Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations

PO4: Conduct investigations of complex problems:

Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern tool usage:

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: The engineer and society:

Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and sustainability:

Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics:

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice

PO9: Individual and teamwork:

Function effectively as an individual, and as a member or leader in diverse teams, and in multi-disciplinary settings.

PO10: Communication:

Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management and finance:

Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multi disciplinary environments.

PO12: Life-long learning:

Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Objectives (PSOs)

PSO.1: *Problem solving using the knowledge of programming, Theory of Computation, Data Structures and Discrete Mathematics.*

PSO.2: *Design and develop software and hardware solution by applying knowledge in Database, Operating Systems, Computer Network & Security, System Architecture, Basic Electronics and Software Engineering.*

PSO.3: *Analyze given information by applying Web Engineering, Communication Engineering, Internet of Things and Artificial Intelligence in Concepts.*

PSO.4: *Demonstrate Awareness towards Professional Ethics, Environment Aspects, Social Issues and Readiness for Lifelong Learning.*

Artificial Intelligence Bridging Gaps of Technology

Pause!! What does this title make you feel? For many, it's fear. Fear of losing jobs, fear of being replaced in the grander sense of the word, and perhaps, fear of having to report to a robot that devalues our humanism. On the other hand, for some, it's exciting. How could spending less on reliable and collaborative intelligence be anything except exciting? Clearly, your response to the above question might have something to do with whether you're in the hiring position, or in the position of being replaced by a robot.

Fortunately though, with correct procedures, recent data suggests that there is a way to merge this technology while maintaining the human value. In this article, we will examine this data and how realistic it is in the face of this rapidly developing technology.

First, let's look at the root of the issue. While AI is relatively new, there has always existed a fear of the "other." Both advocates and promoters of AI suggest that there has always been an

"other," a group that will work harder for less compensation. They say, "A hungry worker learns fast" and to invest time and energy into independently expanding our knowledge and the value we provide. However, AI is the first "other" that is not human, and is truly beyond our competitive reach.

A seemingly mixed emotional response to this growing issue has been perpetuated by fear-driven (and click-seeking) headlines. While a lot of companies believe in the benefits of, and plan to incorporate AI into one or several existing systems, many are unable to take the associated risk and are not confident of the benefits. Two for employees – zero for employers. But wait, why the separation in attitude?

Four years ago, an Oxford University study predicted 47% of jobs could be automated by 2033. Even the near-term outlook has been quite negative: A 2016 report by the Organization for Economic Cooperation and

Development (OECD) said 9% of jobs in the 21 countries that make up its membership could be automated. And in January 2017, McKinsey's research arm estimated AI-driven job losses at 5%.

A slightly more positive view from Deloitte suggests that AI will make it possible to reconceptualize work as a collaborative problem-solving effort where humans define the problems, machines help find the solutions, and humans verify the acceptability of those solutions.

Whether optimistic or pessimistic, business adoption of AI is at a very early stage: There is a disparity between expectation and action. Although four in five executives agree that AI is a strategic opportunity for

their organization, only about one in five has incorporated it.

Even in industries with extensive histories of integrating new technologies and managing data, barriers to AI adoption can be difficult to overcome. In financial services, for example, Simon Smiles, chief investment officer, states: "The potential for larger-scale financial institutions to leverage technology more actively, including artificial intelligence, is huge. The question there is whether these traditional institutions will actually grab the opportunity."

Article By:

Mr. Ajinkya Bochare

Our Achievements



SIPNA

College of Engineering & Technology

NBA Accredited

Congratulations!

**Department of
Information Technology**

***“The Only Department of Information
Technology in Vidarbha Region with
NBA Accreditation”***



Seminars and Workshops taken under Student Activity



1. Name of Event : Webinar on “Database Testing/ETL Testing”

Date : 11/07/2020

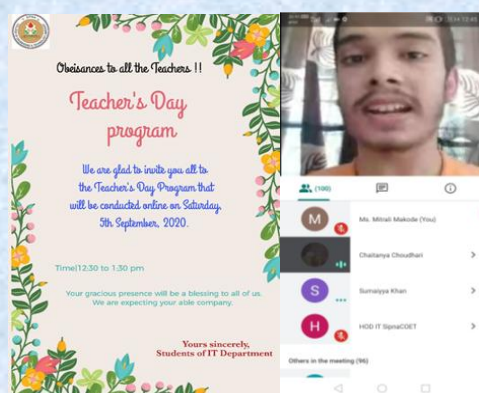
Chief Guest : Mrs. Mayuri Tighare (Senior Quality Analyst, Epsilon, Bengaluru)



2. Name of Event: Webinar on “How Python will help you to build your career”

Date: 19/07/2020

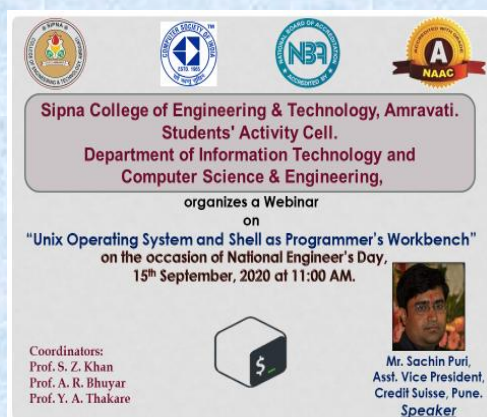
Chief Guest: Dr. N. M. Tarbani



3. Teachers' Day Celebration

Date: 05/09/2020

Chief Guests: All the Teachers of Department of I. T.



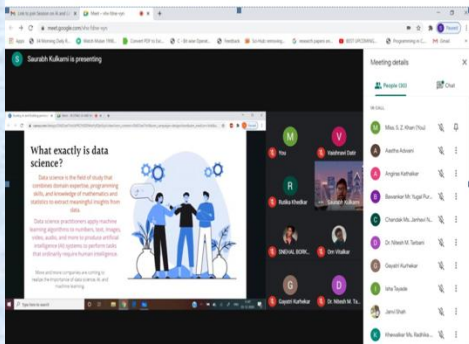
4. Name of Event: Webinar on “Unix Operating System and Shell as Programmer's Workbench” organized on the occasion of “National Engineer's Day”

Date: 15/09/2020

Chief Guest: Mr. Sachin Puri (Assistant Vice President, Credit Suisse, Pune.)

Date: 19/09/2020

Chief Guest: Mr. Nitin Ramchaware (Associate Vice President, CRIF, India)



Date: 05/12/2020 & 06/12/2020

Chief Guest: Mr. Saurabh S. Kulkarni(Data Scientist, Philips Engineering, Bangalore and also a Speaker and a Blogger.)

Placement

Following students got placed from Department of I. T. in different companies.

<i>Sr. No.</i>	<i>Name of Student</i>	<i>Company Name</i>
1	Amit Salpekar	Infosys
2	Monika Dnyaneshwar Hagwane	Tata Consultancy Services
3	Himani Shivprasad Mishra	Tata Consultancy Services
4	Gayatri Paraswar	Tata Consultancy Services
5	Atharva Vibhute	Cognizant
6	Shweta Kapse	Cognizant
7	Rishi Pande	Cognizant
8	Vaishnavi Fale	Capgemini
9	Atharva Vibhute	Capgemini
10	Gaurav Tikhile	Capgemini
11	Devesh Sharma	Capgemini
12	Vaishnavi Sanjay Fale	Atos Global IT Solutions
13	Amit Salpekar	L&T Infotech
14	Pallavi Tekade	Tech Mahindra
15	Shital Verma	Wipro

About Institution

**DEPARTMENT
OF
INFORMATION TECHNOLOGY**

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Sipna College of Engineering and Technology, Amravati.

Vision:

To provide quality professional education and conducive environment to students to emerge as a model proficient institute.

Mission:

- *To create scholarly and vibrant environment for professional excellence.*
- *To contribute to advancement of knowledge in basic and applied areas of engineering and technology.*
- *To be an institute of choice in the region by developing, managing and transferring contemporary technologies.*
- *To build mutually valuable terms with society, industry and Alumni.*

Website: www.sipnaengg.ac.in