

SITA-RA

Students of Information Technology's Association- Research & Analytics

The IT Department Technical Magazine
July-Dec A.Y. 2020-21

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**Sandip Institute of Technology and
Research Centre, Nashik**
Department of Information Technology
Newsletter: SITARA



It gives me immense pleasure to welcome you to Sandip Foundation's SITRC. Our aim is to impart top-quality technical and managerial education in a multicultural environment with the best facilities and a dedicated teaching staff to bring you the best of knowledge.

Modern Infrastructure, an exemplary set of dedicated teaching professional and the exhilarating atmosphere of the campus will surely take you to enviable heights in your intellectual development and help you to achieve your future endeavors. To impart training we have a team of individuals with in-depth knowledge and industrial experience in the latest technical fields. Our sole purpose is to develop high quality technical personnel with sound knowledge I basic engineering and managerial principles who are able to adapt themselves to the ever changing business environment along with the highest ethical and moral values.

The aim behind all our co-curricular and extra-curricular activities is to provide an impetus for young minds to explore other possibilities while they pursue their individual disciplines. It is our belief that education should not be bound. Only then will our students reach their pinnacle of talent and passion. Our focus will always remain on raising efficient, confident and highly knowledgeable engineers, managers and entrepreneurs with global thinking and a futuristic mind set. I expect all my students to have a champion's attitude and an unquenchable thirst for knowledge.

At SITRC we will give you the power to dream, to aspire and to soar towards what you define as success. Let the sky be the limit.

Dr. Sanjay T. Gandhe
Principal



Sandip Foundation's

Sandip Institute of Technology and Research Centre, Nashik



Department of Information Technology Newsletter: SITARA

From HOD's Desk

Department of Information Technology was established in 2008 with an intake of 60 students. The aim of the department is to establish a state of the art knowledge centre in Information Technology Research which produces engineers imbued with the spirit of professionalism and responsible citizenship. The department has well – equipped laboratories, highly qualified and experienced and devoted team of teaching faculty members. Conductive learning environment exists in the department for both students and staff. High-quality technical education keeping in mind the industrial requirement is provided to the students in the areas of Information Technology in order to meet the challenges of the industries. The department caters to the needs of Information Technology sector by imparting a requisite knowledge to the students, in the field of software development, Information Technology and Software Testing, Software Engineering, Computer Networks, Mobile Computing and many advanced topics. Since inception, the department has made tremendous progress in terms of good academic result and student placement in software industries and also staff development. The IT Department established a Student's of IT Association(SITA), since the establishment in 2014 and organizes various technical, non-technical, and cultural events through it.

Our Strengths – Information Technology

- Persistent Infrastructure Development
- Full Fledged Software Support
- Conducive Environment for Academic Excellence
- Effective Teaching and Learning Process
- Active Placement assistant
- Excellent Departmental Library
- Subscription to Online Journals
- ISTE, IEI, IEEE and CSI Student Professional Bodies
- Strong Alumni Association
- Student's of IT Association (SITA)

Dr. Pawan Bhaladhare

HOD, Department of Information Technology




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SITRC
An Autonomous Institute



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SANDIP INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE, NASHIK

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**SANDIP
FOUNDATION**

INSTITUTE

DEPARTMENT OF INFORMATION TECHNOLOGY

VISION

- » To be acclaimed institution for learning and research.

- » To be a renowned academic department for education and research in the domain of Information Technology.

MISSION

- » To impart in-depth technical knowledge.
- » To create conducive environment for research, innovation and entrepreneurship.
- » To instill the social and cultural values.

- » To impart quality technical education and accomplish superiority in education and research.
- » To produce competent IT professionals and entrepreneurs with professional ethics.
- » To promote and develop an ability to apply the knowledge for the societal benefits.





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DEPARTMENT OF INFORMATION TECHNOLOGY

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

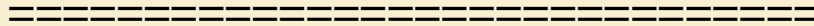
- PEO 1:** Possess strong fundamental concepts in mathematics, science, engineering and Technology to address technological challenges.
- PEO 2:** Possess knowledge and skills in the field of Computer Science and Information Technology for analyzing, designing and implementing complex engineering problems of any domain with innovative approaches.
- PEO 3:** Possess an attitude and aptitude for research, entrepreneurship and higher studies in the field of Computer Science and Information Technology.
- PEO 4:** Have commitment to ethical practices, societal contributions through communities and life-long learning.
- PEO 5:** Possess better communication, presentation, time management and teamwork skills leading to responsible & competent professionals and will be able to address challenges in the field of IT at global level.

PROGRAM OUTCOMES (POs)

- PO 1 - Engineering Knowledge :** An ability to apply knowledge of mathematics, computing, science, engineering and technology.
- PO 2 - Problem Analysis :** An ability to define a problem and provide a systematic solution with the help of conducting experiments, analyzing the problem and interpreting the data.
- PO 3 - Design / Development of Solutions :** An ability to design, implement, and evaluate a software or a software/hardware system, component, or process to meet desired needs within realistic constraints.
- PO 4 - Conduct Investigations of Complex Problems :** An ability to identify, formulates, and provides systematic solutions to complex engineering/Technology problems.
- PO 5 - Modern Tool Usage :** An ability to use the techniques, skills, and modern engineering technology tools, standard processes necessary for practice as a IT professional.
- PO 6 - The Engineer and Society :** An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems with necessary constraints and assumptions.
- PO 7 - Environment and Sustainability :** An ability to analyze and provide solution for the local and global impact of information technology on individuals, organizations and society.
- PO 8 - Ethics :** An ability to understand professional, ethical, legal, security and social issues and responsibilities.
- PO 9 - Individual and Team Work :** An ability to function effectively as an individual or as a team member to accomplish a desired goal(s).
- PO 10 - Communication :** An ability to engage in life-long learning and continuing professional development to cope up with fast changes in the technologies/tools with the help of electives, professional organizations and extra-curricular activities.
- PO 11 - Project Management and Finance :** An ability to communicate effectively in engineering community at large by means of effective presentations, report writing, paper publications, demonstrations.
- PO 12 - Life - Long Learning :** An ability to understand engineering, management, financial aspects, performance, optimizations and time complexity necessary for professional practice.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- PSO 1:** An ability to apply the theoretical concepts and practical knowledge of Information Technology in analysis, design, development and management of information processing systems and applications in the interdisciplinary domain.
- PSO 2:** An ability to analyze a problem, and identify and define the computing infrastructure and operations requirements appropriate to its solution. IT graduates should be able to work on large-scale computing systems.
- PSO 3:** An understanding of professional, business and business processes, ethical, legal, security and social issues and responsibilities.
- PSO 4:** Practice communication and decision-making skills through the use of appropriate technology and be ready for professional responsibilities.



Students of Information Technology Association (SITA)

A.Y. 2020-21

Semester II

Objective of SITA is to provide a platform for the students of Dept. to exhibit their talents and learn things beyond the curriculum. SITA organizes various programs for the overall personality development of students. SITA also publishes **SITAपत्र**, A newsletter and **SITA-RA** (SITA-Research & Analytics), technical magazine, for motivating students in research publication. SITA organized many events since its establishment, listed below are the few events within the span of assessment Period. Some Prominent Events are as follows:

Sneha A. Khaire, “Smart Container for Food Wastage Prevention using IOT”, in: International Research Journal of Modernization in Engineering Technology and Science, Vol: 02/Issue:09/September-2020, Impact Factor- 5.35, ISSN:2582-5208, September 2020.

Student Association Details

The IT Department Successfully runs various Students’ Chapters through its Student’s of IT Association (SITA), since the establishment in 2014. The department has the following four professional student’s chapters, which provide a good platform for students to participate actively in the various competitions and lectures.

Students of Information Technology’s Association (SITA)

A student of Information Technology’s Association (SITA) is an organization formed by the students of IT with the help and guidance of Faculties of IT. SITA works for the students as well as faculties. The basic aim of SITA is to enrich students with different qualities to add dimensions to their personality so that every student emerges as multi-functional engineer who is globally recognized. SITA was established in the Academic year 2014-2015. The objective of SITA is to mold one’s personality in such a way that one becomes equally competent in all streams of engineering. In the recent years SITA has been working hard to press the students towards the zenith of developing them in a versatile polymath fashion.



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Department of Information Technology Newsletter: SITARA

The Governing body is formed of the faculty and students. The president of SITA is the Head of the Department. A Faculty Advisor and Co-In charge of SITA is one of the senior faculties from the department. Bright and dynamic students from final Year are selected for the post of Student President, Vice- President and Treasurer by interviewing them. Executive Members (one from each division) and Ladies Representatives (one from each class) are selected by each class.

Objectives:

Objective of SITA is to provide a platform for the students of Dept. to exhibit their talents and learn things beyond the curriculum. SITA organizes various programs for the overall personality development of students. SITA also publishes SITAपत्र a newsletter and SITA-RA (SITA-Research & Analytics) a technical magazine, for motivating students in research publication.

Committee of A.Y. 2020-21

Sr. No.	Academic year	Name of the Team Members	Designation
1	2020-2021	Ms. Riddhi Jagale	President
2		Sarvesh Lahare	Vice President
3		Bhushan Bisane and Ashwini Jadhav	Treasurer
4		Sarvesh Chaudhari	Secretary

Editor: Prof. Sneha Khaire,
Assistant Professor, Department of Information Technology,
Sandip Institute of Technology and Research Centre, Nashik

Publisher: Department of Information Technology,
Sandip Institute of Technology and Research Centre, Nashik

SITA-RA

The IT Department Technical
Magazine July-Dec 2020-21

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SANDIP INSTITUTE OF TECHNOLOGY & RESEARCH CENTRE



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From The Desk of HOD

Department of Information Technology was decided to provide a platform for students and faculty to publish their technical reviews, papers, and findings through the active involvement of its students association SITA. Here is the official technical magazine of IT Department helping the students and faculties to enhance their technical writing skills by publishing their research articles, reviews, and notes on beyond syllabus to boost their academic performance through the technical magazine SITA-RA. All the entries coming to SITA-RA are checked by Department's senior professors for content and plagiarism. Students of Information Technology's Association-Research Analytics (SITA-RA) received more than 10 entries and 6 were selected and published in the Semester I issue of AY 2020-21. SITA-RA gets published in every academic Year in May for odd Semester, and December for Even Semester.

Students enthusiastically proposed and designed the SITA-RA under the guidance of Faculty coordinator of SITA. I congratulate all the participants, organizers, and SITA members for the publication of SITA-RA.

Dr. Pawan Bhaladhare
HOD IT

From The Desk of SITA-RA Executive Editor

Students of Information Technology's Association (SITA) was formed to boost and motivate the Students and Faculties of the Information Technology to conduct and participate in various technical, recreational, social, cultural and sport activities. SITA, since its formation decided to publish a technical magazine to publish the technical reviews, papers, and e-notes of students and faculties of the department.

The **SITA-RA** magazine is outcome of efforts and dedication of students and respected faculties, being an editor for the same I congratulate all my students and respected faculties for successfully completing the SITA-RA issue of Semester I of Academic Year 2020-21. I invite them all to go through the published articles and submit their own accordingly for the next issue. I thanks all SITA members, IT Faculties, and HOD IT for their continuous support to me and my team members in designing and publishing this technical magazine of AY 2020-21, Semester-I, Dept. of Information technology.

Prof. Sneha Khaire
Executive Editor, **SITA-RA**