

**Dr. Babasaheb Ambedkar Technological
University, Lonere - Raigad**

Website: <http://www.dbatu.ac.in>

Annual Report

**Department of Information
Technology**

Academic Year 2018-2019

1. Message from Head of the Department

Welcome to the Department of Information Technology. It's my great pleasure to present the Annual Report of the Department of Information Technology for the year 2018-19.

The Department of Information Technology has recorded consistent improvement in its academic, research and placement performance. It runs a B.Tech. program in IT whose curricula are constantly updated to meet the changing requirements of the industry and also to meet the needs of major stakeholders. To fulfil industry demand we introduced five Add-on courses which are supposed to be taught by adjunct faculty from reputed industry.

Department offers opportunities for pursuing advanced research in Information Technology to motivate talented students to pursue their research study. Eight Research students are enrolled for the PhD programme which contributes to the large research group on the campus which is improving research culture in the department.

This is not a new surprise for us to see success. Success is all our right from day one when we started achieving. I would like to congratulate Prof. V. J. Kadam for publishing a research paper in Springer reputed Publisher.

We believe that our students have been well accepted in their job profiles and have consistently exceeded expectations of the corporate world.

During study at the department, the students are encouraged to get hands-on experience in the corporate world through internship projects, Industrial visits with reputed organizations. They also undertake projects benefiting local industries and are dealing with local problems. These projects enable them to understand the relevance of working in a group and also help them to realize the finer aspects and importance of teamwork. Last year we created a fun learning environment to have a smart classroom and modern technology that eases the learning process for all students.

We also encourage students to participate, organise technical events, and also get involved in activities of social relevance.

With all these inputs one finds our students hardworking, practical-oriented and effective in any work environment. We have designed our syllabus to strike a balance between professional knowledge and personal skills. We are confident that our current curriculum has enabled overall development of budding managers to come up to the expectations of the corporate world.

The curriculum is taught by a distinguished faculty combining academic excellence and real world experience with dedication and commitment.

We are encouraged to see many industries coming back to our department, which reinforces our belief in the effectiveness of our curriculum and its suitability to the dynamic corporate world.

With this brief, I welcome you to be a part of our journey towards being a world class centre of excellence in education, training and research.

Dr. S. M. Jadhav
(Head, IT Department)

2. Vision and Mission Statements of the Department

Vision

Impart highest quality, technology-based education, in the most cost-effective manner, to facilitate the University mission as it applies to the management, teaching, learning, and community service.

Mission

Provide effective technology support for audio/visual, computer, multimedia, voice, video, and web-based applications to fulfil the needs of students and staff. Promote and facilitate the effective integration of technology into the basic mission of the University through planning, programming, training, consulting, and other support activities. Develop, enhance, and manage the University enterprise networks to provide high speed, transparent and highly functional connectivity among all information resources. Develop and maintain highly effective, reliable, secure, and innovative information systems to support instructional, administrative and research activities. Facilitate the collection, storage, security and integrity of electronic data while ensuring appropriate access, innovative applications.

3. About the Department

The department of Information Technology was established in the year 2001 with B. Tech. program having intake of 60 students under the umbrella of the department of Computer Engineering. The B. Tech. programme in Information Technology was shifted to the newly created department in 2004. The first research scholar for Ph.D. programme enrolled in the department in 2015. Department has seven regular faculty, three laboratory supporting staff- Laboratory Assistant Technical, Laboratory Assistant and Laboratory Attendant. All the faculty members have completed their M.E. /M. Tech. One faculty has completed PhD and two faculty members are pursuing their PhDs. The Department has set a tradition of achievements in sports, cultural activities, extracurricular activities, competitive examinations like GATE, MBA-CET etc. and campus placements.

4. Programme Educational Objectives (PEOs) & Programme Outcomes (POs)

Programme Educational Objectives (PEOs)

The programme educational objectives for the B. Tech. programme in Information Technology describes accomplishments that graduates are expected to attain within the four years of graduation.

Graduates will be able to apply their expertise to contemporary problem solving, be engaged professionally, and have continued to learn and adapt, and have contributed to their organizations through leadership and teamwork. More specifically, the objectives are:

Objective Identifier	Objectives
PEO1	To enable graduates gain strong skills for employment in multidisciplinary domains driven by IT.
PEO2	To enable graduates to pursue higher education and research.
PEO3	To enable graduates to develop entrepreneurship and leadership skills.
PEO4	To enable graduates to contribute to the society in accordance with highest standards of ethics.
PEO5	To develop breakthrough solutions enabling transformations in a rapidly changing IT world.

Programme Outcomes (POs)

The graduates of this programme will be able to demonstrate:

Outcome Identifier	Outcomes
PO1	An Understanding of IT architecture, software and hardware concepts, functionalities and applications.
PO2	An Ability to design, develop and test computer programs involving various algorithms, methodology and programming languages.
PO3	Competency of business domains and functional processes that employ IT systems and applications.
PO4	Practical use of communication protocols and their applications in the field of internet and world wide web.

PO5	Sound understanding of fundamentals of computer as the central enabling platform for information management in 21st century.
PO6	An Ability to develop, integrate, maintain and innovate software applications deployed in various multi-disciplinary domains.
PO7	Thought leadership to design and implement practical solutions for global industry needs.
PO8	An acumen to embrace and adopt futuristic IT technological developments.
PO9	Sound knowledge of entrepreneurship traits to succeed.
PO10	Adoption of practices that are ethical ensuring transparency and accountability.
PO11	Capability to provide solutions that are socially empowering and environment friendly.
PO12	Effective communication and collaboration techniques with stakeholders to achieve best results

5. Overview of Academic Programme:

Academic Programme	Duration	Intake
B. Tech. in Information Technology	Four Years	60

6. UG students Statistical Information

Year	OPEN			SC			ST			OBC			VJ/NT			SBC			J & K	TFWS	TOTAL			
	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T	M	F	T			M	F	T	
First	15	9	26	06	02	08	1	0	1	11	04	15	6	03	09	02	00	02	00	00	00	42	19	61
Second	16	13	29	10	7	17	0	0	00	11	10	21	4	4	8	2	0	2	0	0	0	48	29	77
Third	8	10	18	2	5	07	0	2	02	15	10	25	3	3	06	3	0	3	0	01	01	32	30	62
Final	21	9	30	11	6	17	2	0	02	19	11	30	4	3	7	1	0	01	01	01	01	60	29	89

PhD students Statistical Information

FIRST YEAR PH.D PROGRAMME PART TIME			
SR.NO.	Roll No.	Name of Student	GENDER

1	RS20181102	PINGALE SUBHASH VITTHAL	M
2	RS20181103	KAMBLE JAYANAND AMBADAS	M
3	RS20181104	WAGH NANDA RAGHUNATH	F

7. Additional Responsibilities to the Faculty

1. Dr. Jadhav Shivajirao Manikrao

1. Convener, EduSat (AICTE Setup)
2. Member, Academic Council, Dr. B.A.T.U.
3. Chairman, Board of Studies, Department of Information Technology
4. TEQIP MIS (Team Member)
5. Coordinator, Oracle Workforce Development Programme of Oracle University
6. Coordinator, Training to University Student, Faculty and Staff on Free and Open Source Software (FOSS)
7. Coordinator, Microsoft Usage Audit
8. Coordinator, Software Development through student's academic projects for University Use
9. Head, Department of Information Technology
10. Member, Board of ICT

2. Prof. Sutar Sanjay Raghunath

1. Coordinator, Online attendance module
2. Coordinator, Timetable and academic calendar
3. Coordinator, Cultural activities
4. Coordinator, RailTel Internet Facility
5. Coordinator, TEQIP Institutional Reforms Committee
6. Member, Board of Studies, Department of Information Technology
7. Chairman, Department Procurement committee

3. Prof. Kadam Vinod Jagannath

1. Coordinator, DTE Admission Reporting Centre 3033
2. Coordinator, DTE Facilitation Centre 3033

3. University (Institute level) admission coordinator (First year B. Tech. / Direct Second B. Tech. / First Year M. Tech.)
4. Member, TEQIP Institute Industry Interaction Committee
5. Department Internal/External Audit Coordinator
6. Department Project Coordinator
7. Member, Board of ICT
8. Chairman and member of various departmental committees
9. Coordinator, Shivjayanti
10. Member, University T&P cell
11. Member, Library advisory Committee
12. Member, University Intranet Committee
13. Member, University IQAC

4. Prof. Babhulgaonkar Arun Ramrao

Deputed For PhD under QIP

5. Prof. Bharad Sonali Vasudeorao

1. Departmental Meeting Secretary
2. Departmental timetable coordinator
3. Member, Cynosure Technical Event Committee
4. Member, Women and child welfare committee
5. Chairman and member of various departmental committees
6. Member of cultural committee at University Level
7. Departmental ISO coordinator

6. Prof. Barphe Sapana Shivaji

1. Member, Women and child welfare committee
2. Member, Women Grievance cell at University Level
3. Member, Cultural committee at University Level
4. In-charge, Ladies Common Room
5. Departmental Industrial Training Coordinator
6. Departmental Second Year Class Coordinator
7. Departmental TPCS Coordinator
8. Chairman and member of various departmental committees

7. Prof. Hivre Sadhana Ranojirao

1. Rector, Hostel Malaygiri
2. Member, Students Grievance Redressal cell
3. Member of women and child welfare committee
4. Member, Annual Report Committee
5. Member, Cultural committee
6. Chairman and member of various departmental committees

8. Advisory Board and BoS

8.1 Advisory Board

Sr. No.	Name
1	Dr. G. Sivakumar, IITB
2	Dr. B. B. Meshram, VJTI, Mumbai
3	Mr. Sham Dhage, IBM, Pune
4	Dr. L. N. Singh, DBATU, Lonere

8.2 Board of Studies

Sr. No.	Name	Designation
1	Dr. S. M. Jadhav, Head, Department of Information Technology Dr. Babasaheb Ambedkar Technological University, Lonere- Raigad	Chairman
2	Dr. S. R. Sutar, Department of Information Technology Dr. Babasaheb Ambedkar Technological University, Lonere- Raigad	Member
3	Dr. Sharvari Tahmane, Jawaharlal Neharu Engineering College, Augangabad	Member
4	Dr. V. P. Sonawane, Dr. Kalam Skill development center Jalgaon.	Member
5	Prof. D. V. Biradar, M. S. Bidve College of Engineering, Latur	Member

9. Laboratory Expenditure

Sr.No.	Name of Instrument	Qty.	Total cost (In Rs.)
1	Smart Class Room	1	1,30,000/-
2	Lenovo V310 Laptops	7	1,340,600/-
3	All in one Desktop Computers	20 nos.	10,11,100/-
4	HP 8300 SFF17-3770/04/500/SLED Desktop (DGS&D)	44 nos.	23,97,780/-
5	Multimedia Projector with wireless connectivity between PC & Projector	02 nos.	82,508/-
6	D Link DAP-1360 WIRELESS Access Point (Black)	01 no.	1990/-

Sr. No.	Name	Qty.	Total Cost
1	Multi-media projector with wireless connectivity between PC & Projector Model No. PJWX2240 with WPS dongle Resolution: 1280 x 800 W XGA, ANSI Lumen: 3000	02	82508.00
2	D Link DAP-1360 Wireless Access Point (Black) - 01 no.	01 no.	1990/-
3	7040 SFF Optiplex Dell, Intel Core I7-6700 Processor, 4GB DDR4, 1TB HDD, Ubuntu Linux 14.04 SP1, Dell USB keyboard & Mouse, 19.5" Monitor	20 no.	8,98,300/-

10. Conferences/Workshops/Trainings /Academic Awareness activities conducted under TEQIP-II

Sr. No.	Name of the course	Duration	Name of the Coordinator	Eminent Speakers
1	Professional Web Development	21 st July – 30 th September, 2018	Dr. S. R. Sutar	Mr.Milind Rahangdale, TCS, Mumbai

2	Android Training Workshop	15 th – 24 th December, 2018	Prof. S. S. Barphe Dr. S. M. Jadhav	Manasi Dhotre, Software Engineer, Horizon Technologies, Mumbai 2. Ram Sakhare, Software Engineer, Horizon Technologies, Mumbai
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Expert Talks by Alumni:

Sr. No.	Name of the Topic	Name of the Alumni	Participants
1.	Expert talk on Career Guidance	Mr. Swapnil Dabhade, Founder, Horizon Technologies	Second, Third and Final Year Information Technology Students
2	Expert talk on Starts up and Incubation	Mr. Sunil Chavan, (CEO, TeenTrum)	Second, Third and Final Year Information Technology Students
3	Expert talk on Career Guidance	Mr. Devendra Chaudhari (Indian Air Force)	Second, Third and Final Year Information Technology Students
4	Expert talk on Career Guidance in Civil Services	Mr. Sudhir Kekan, IPS	Second, Third and Final Year Information Technology Students

11. Departmental Strengths, Weaknesses, Opportunities and Challenges

Major Strengths:

- Young and experienced faculty members
- Dedicated staff and faculty
- Campus wide networking
- Latest Teaching/Learning aids like smart class room
- Adequate infrastructure

Weaknesses:

- Lack of Ph. D. qualified faculty
- Shortage of faculty
- Higher faculty positions are vacant

Opportunities:

- Starting PG courses
- Starting finishing schools
- Establishment of Departmental library

- Training for New Technology awareness
- Consultancy like Cyber Crime detection
- Enrollment of faculty for Higher studies

Challenges:

- Curriculum development as per industrial needs
- Dynamic nature of IT field
- Training of faculty
- Research facilities