




THE DEPARTMENT OF INFORMATION TECHNOLOGY (AUTONOMOUS)




(Estd. in 2013)

A decorative graphic consisting of a solid teal horizontal bar at the top, followed by a white horizontal bar, and then three thin, parallel teal horizontal lines on the right side of the white bar.

Departmental Profile-Details of Faculty

Name of Faculty	Qualifications	Experience	Specialization	
	Mr. Wilson Rao Co-ordinator	M Sc IT	16 years	E-Commerce & Internet Security, Java Programming
	Ms. Sunita Jena Assistant Professor	M Sc IT	11 years	Android Programming, Networking & .Net technologies, Cyber Law, Digital Electronics
	Ms. Bertilla Fernandes Assistant Professor	MCA	8 years	.Net Technologies, Web Technologies, and Networking

Departmental Profile-Details of Faculty

Name of Faculty	Qualifications	Experience	Specialization
 <p>Ms. Priti Shelar Assistant Professor</p>	M Sc IT	6 years	Applied Mathematics, Statistics, Business Intelligence, Linux Administration
 <p>Ms. Shruti Shah Assistant Professor</p>	M Sc IT	4 years	Computer Graphics, Programming, Data Structures and Algorithms
 <p>Ms. KrishnaChalitha KC Assistant Professor</p>	MSc-CS, B.Ed, PhD (pursuing)	3.5 years	Computer Networks, Artificial Intelligence, Python Programming, Linux Administration

Departmental Profile-Details of Faculty

Name of Faculty	Qualifications	Experience	Specialization	
	Ms. Fatima Shaikh Assistant Professor	M Sc IT	3.5 years	Maths, Java Programming, Android Programming
	Ms. Anjali Sawant Assistant Professor	MCA	3 years	Android, Web technologies, DBMS, Green Computing

Departmental Profile- Details of Non-Teaching Staff

Name of the Staff	Designation	Qualifications	Overall Experience in years
Mr. Ratnakar Panhalkar	Lab Assistant	T.Y.Bsc	1 year
Mr. Sunil Uttekar	Lab Attendant	H.S.C	8.5 year
Mr. Sushant Chaudhari	Lab Attendant	T.Y.BMS	7 year
Mr. Sadashiv Khatkar	Lab Attendant	H.S.C	7 year
Mr. Sujit Sawant	Engineer (From A.B.Enterprise)	H.S.C	5 year

Bsc IT as a Course

A swift growing field with excellent technical expertise.

The department emphasizes in holistic development of the students.

Renowned students in IT Industries, Higher Education, Government sectors and many more.

Platform for emerging Technologies!

Infrastructure

Well equipped computer labs with upgraded and latest versions of software.

A Computer Lab sponsored by Hewlett-Packard for improved learning.



Infrastructure

Mounted projectors and audio devices in the Classrooms and Computer Labs.

Implementation of Smart Board

Interactive system to engage students in active collaborations.



Lab with 60 latest OS implemented machines and licenced software



Bachelor of Science-Information Technology

- This is a three year course based on Choice Based Credit and Grading System.
- This course has total six semesters, two semesters in each year.
- In Semester I and II each subject has **40 marks** internal (**Continuous Assessment**), **60 marks** external (**Semester End Examination**), and **50 marks practical examination**.
- For the successful completion of a program, a student is required to acquire 150 academic credit points along with 2 mandatory credits under AAA. A student can also acquire 2 additional credits through non-mandatory AA as well as 2 non-mandatory credits through an Internship course during the course of the entire program.

Credit Scoring System Under Autonomy

**ACADEMIC
(MANDATORY)**

+150

- CULMINATION OF CA-1, CA-2, SEE AND PEC MARKS.

**AAA
(MANDATORY)**

+2

- VARIOUS EXTRA COURSES THROUGHOUT THE YEAR

**AA (NON -
MANDATORY)**

+2

- EXTRA VOLUNTARY ACTIVITIES.

**INTERNSHIPS
(NON-MANDATORY)**

+2

- INTERNSHIPS DURING SUMMER VACATIONS

TOTAL=156 Credit Points

Bsc IT- Syllabus

- **Semester I (20 Credits)**
 - Imperative Programming
 - Digital Electronics
 - Operating system
 - Discrete Mathematics
 - Communication Skills
- **Semester II (20 Credits)**
 - Object Oriented Programming
 - Microprocessor Architecture
 - Web Programming
 - Applied Mathematics
 - Green Computing

Bsc IT- Syllabus

- **Semester III (20 Credits)**
 - Advanced Python Programming
 - Applied Data Structures and Algorithms
 - Computer Networks
 - Databases and Transactions
 - Core Java with JSP
- **Semester IV (20 Credits)**
 - Dot Net Technologies
 - Embedded Systems
 - Computer Oriented Numerical and Statistical Techniques.
 - Software Methodologies and Management
 - Advanced Networks and Security

Bsc IT- Syllabus

- **Semester V (20 Credits)**

- Research Methodology
- Physical Computing and IoT Programming.
- Mobile Application Development
- Machine Learning and Deep Learning
- Enterprise Jakarta 8

- **Semester VI (20 Credits)**

- Cloud Computing
- AI and Soft Computing
- Big Data and Next Generation
- Ethical Hacking
- Robotics

Academic Evaluation

- **Continuous Assessment (CA) (40 marks):**
- There will be two Continuous Assessments conducted by department (CA-I and CA-II) for 40% of the total marks .
- **CA-I:** Written or online test 20 marks.
- **CA-II:** Internal course work of 20 marks is given by the respective departments. Course work may include Assignments / Seminars/ Oral Presentations/Study Visit Report / Survey / Mini Projects or any other method

Academic Evaluation

- **Semester End Examination (SEE) (60 marks):** One Semester examination at the end of each Semester for 60% of the total marks of the said course
- **Practical Examination for Courses (PEC) (50 marks):** Marks for PEC in Science are 50 out of which 30 marks are for experiments (SEE) and 20 marks for internal practical assessment.

Additional Academic Activity (AAA)

- Each student has to complete **minimum of 60 hours** of AAA activities **over** the **3-year** of UG studies and obtain **two credits**. Student can earn these credits according to his/her convenience but it is advisable for students to earn by doing **20 hours in FY, 30 hours in SY** and **10 hours in TY**.
- AAA courses are more of a co-curricular nature to equip the student towards learning beyond the curriculum
- **Activities in the year 2019-20**
 - Latest trends in **Android Application Development** by Mr. Niket Shah (Android Developer) at Sanda Group of Management Services pvt ltd.
 - Hands on workshop on **IOT with Arduino** by Professor Mr. Manoj Kavedia from Thadomal Shahani Engineering College

Additional Academic Activity (AAA)

- Guest lecture on **Advanced Web Technologies** used in Industries by Mr. Vaibhav Palve from Directi
- Special Lecture on **Big Data** by Mrs Sonali Gupte, Lecturer as an IEEE Member, Industry Expertise in Business Analysis
- Guest lecture on **Machine Learning** by Mr. Avin Mehta, Technical Architect from Accelya
- **Avishkar**- Inter College Science Exhibition Organized by Mumbai University
- **Xplore**- Intra Collegiate Science Exhibition Organized by JaiHind College

Additional Academic Activity (AAA)

➤ **Departmental Discussion Club**

- The main objective of this Discussion Club is to inculcate research oriented activities among students, preparing research papers and getting trained for paper presentation.
- **Paper Presented by Students in various Research meet:**
 - **4 Bsc IT Students** presented paper in the Conference on “Emerging Innovations in Information Technology: Prospects & Challenges”, SM Shetty College of Science, Commerce & Management Studies, Mumbai.
Name of the Book & publisher / Journal, Issue:
International Journal Of Advance And Innovative Research(IJAIR). **One of the Student Received Best paper presented award**

- **Paper Presented by Students in various Research meet:**
 - **1 BSc IT Students** presented paper in National Conference on “Advanced Research in Computer Science and Information Technology” , organized By Mulund College of Commerce, Mumbai, Name of the Book & publisher / Journal, Issue: International Journal Of Advance And Innovative Research(IJAIR).
 - **2 Group (8 Students)** presented paper in National Conference on “Water Resources: Remediation & Rejuvenation” , organized By University of Mumbai, **One the group Received Best Innovative Researcher Award.**



Xplore



Research Meet



Hands on IOT Workshop



Avishkar



Guest Lecture on Machine Learning



Guest lecture on Advanced Web Technologies



Research Meet



Special lecture on Big Data

Additional Activity (AA)

- A student can also acquire 2 additional credits through non-mandatory AA or 'Additional Activity.
- The AA courses are more of an extra-curricular nature involving Extension activities, CSR activities etc. so as to sensitize the student towards his responsibility towards the society, and thereby to the nation as a whole.
- **Activities in the year 2019-20**
- To have first-hand experience, Experiential learning is done through Industrial visit to Data Center NetMagic for understanding Networking and Data Centre Technologies .



Industrial Visit to Data Center NetMagic

Avenues after BSc IT

- The Department always strive to enhance and upgrade the syllabus, trending as per industry perspectives with latest Technology
- **Professional avenues open to successful graduates after undertaking Bsc.IT syllabus are:**
 - ❖ **Software Developer:** Implementing software solutions by building programs, applications through various programming language.
 - ❖ **Software Tester:** They write and test codes, often using development tools with the help of Software Engineering and Software Testing
 - ❖ **Web Designer:** Creating and designing layout of websites.
 - ❖ **Network Administrator:** Responsible for devising security, data storage, and disaster recovery strategies
 - ❖ **Database Administrator.** Installation, configuration, database design, monitoring, security, troubleshooting, backup and data recovery.

Avenues after BSc IT

- ❖ **System Analyst:** Examining existing IT systems and write the requirement for new ones for the client or employer.
- ❖ **IT Consultant:** They provide technical assistance in developing and implementing IT systems
- ❖ **Data Analyst:** overseeing practices and processes to ensure integrity, safety, and availability of all data and applications as part of the organization's information system
- ❖ **Support Engineer.** Providing technical set-up, advice, and support to IT users
- ❖ **Automation Industry:** Use of control systems, such as computers or robots, and information technologies for handling different processes and machineries in an industry to replace a human being
- ❖ **Business analysts (BAs)** are responsible for bridging the gap between IT and the business using data analytics

Venues after Bsc IT

- After having done B.Sc.-IT students have many options to build their career.
- **IT Professional Job** (Software Developer, Network Administrator, Business Analyst, IT Consultant and many more)
- **Higher Studies**
 - **Post Graduation** (Master In Computer Application, MSc IT, MSc Computer Science)
 - **Management Studies** (MMS/MBA)
 - **Studies abroad** for MS or MBA
- **Certification Courses**
- **Appearing for Public Sector Exams like U.P.S.C., M.P.S.C., SBI-PO, etc**

Placement Cell

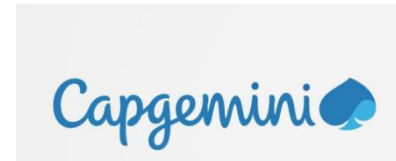
- The prestigious placement cell of the department was established to place our fresh graduates into organizations and companies worth their calibre.
- **Placements in year 2019-20**



26 Students got selected with a Package of 2.2 LPA



50 Students got selected with a Package of 1.93 LPA



12 Students got selected with a Package of 2.5LPA



LARSEN & TOUBRO

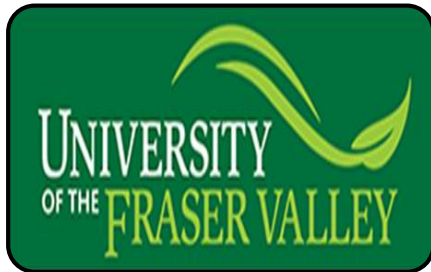
5 Students got selected with a Package of 2.5 LPA



1 Student got selected with a Package: 1.85 LPA

Foreign Collaborations

- To enrich students with higher studies the Department has a tie-up with **Universities abroad**



- Till date **17 students** went to University of Fraser Valley, Canada



- Till date **3 students** went to University of Canberra, Australia

Departmental Activities

- To Create cyber awareness among students a Seminar was conducted on “**Cyber Security**” from Marine Drive Police Station.
- Enriching TY students with Industry perspective a session was conducted on Software Project Management by Expert Mr. Raj Dhirvani, Riidl Research Institute.
- Every year Department conducts an Orientation programme for First year students to explore them about BSc IT course.
- JaiHind College witnessed its biggest E-Waste event of **4 days** by collecting **450Kgs of E-waste**.

Departmental Activities

- Two days Inter Collegiate Technical Fest “**Cyber Strike**” was organized by the Computer Society “**DOT COM CLUB**” which had various technical events like technical clue hunt, crack the code, quiz, gaming events, Fashion show and many more.
- Apart from all this, Department also had other fun activities for students like football tournament, Celebration of Christmas Party , Traditional day and Farewell for Tys.



FY Orientation



Seminar on Cyber Crime



TY Farewell



Traditional Day



Football tournament



E-Waste



Thank You