Vasavi College of Engineering (A), Hyderabad, TS

VASAVI COLLEGE OF ENGINEERING
(AUTONOMOUS)

Welcomes

The Parents and the Students

to

Induction Program

Ibrahimbagh, Hyderabad-31, Telangana State, INDIA

Department of Information Technology

ABOUT THE COLLEGE

- Established in the Year 1981
- Recognised under 12(B) and 2(F) section of UGC ACT
- UGC and O.U conferred Autonomous Status to the college for six years w.e.f. 2014-15 to 2019-2020.
- All B.E. Programmes offered by the college have been re-accredited by NBA for three years w.e.f 2017 and further accredited for 1 year i.e. 2020-2021.
- Three PG Programmes offered by the college have been accredited by NBA for two years w.e.f 2018.
- Implementing Choice Based Credit System (CBCS) from 2016-17 Academic Year.

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS)

VISION

Striving for a symbiosis of technological excellence and human values

MISSION

To arm the young brains with competitive technology and nurture the holistic development of the individuals for a better tomorrow

QUALITY POLICY

Education without quality is like a flower without fragrance. It is our earnest resolve to strive towards high standards of teaching, training and developing human resources.

ABOUT THE DEPARTMENT

- **The department offers UG Programme in Information Technology .**
- **Year of Starting the Programme: 2000**
- **Sanctioned intake : 60**
- **The intake has been increased to 120 in 2012 and again to 180 in 2019 respectively.**
- **Present sanctioned Intake: 180 in First Year + 18 Lateral entry in Second Year**
- **The Programme has been re-accredited by NBA for 3 years w.e.f. 2017 and further accredited for 1 year i.e. 2020-2021.**
- **B.E. Honours Programme in *'Artificial Intelligence and Machine Learning'* is being offered by the Department from 2020-21.**

DEPARTMENT OF INFORMATION TECHNOLOGY

Vision

To be a centre of excellence in core Information Technology and multidisciplinary learning and research, where students get trained in latest technologies for professional and societal growth.

Mission

To enable the students acquire skills related to latest technologies in IT through practice- oriented teaching and training.

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Department Profile

Year of establishment	2000
Affiliation (Permanent)	Osmania University, Hyderabad, T.S.
Program(s) offered	BE. (IT)
NBA Accreditation status	• Accredited in 2013 and Re-Accredited in 2017.
UGC	• Conferred with Autonomy by UGC for 6 years from the year 2014.

Faculty Strength :

Cadre -Wise		Qualifications -Wise		Gender -wise	
Professors	**3**	**PhD**	**6**	**Male :**	**9**
Associate Professors	**2**	**M.Tech & Pursuing PhD**	**5**	**Female :**	**12**
Assistant Professors	**16**	**M.Tech**	**10**		
Total	**21**	**Total**	**21**	**Total**	**21**
Adjunct Professors	**3**				

WHAT IS CBCS ?

- In Choice Based Credit System (CBCS) programme student has a choice to select from the courses,
  - Professional Electives
  - Skill Development Courses
  - Open Elective Courses
  - Extra Curricular Activities.
- The entire assessment is grade-based on a credit system.
- As per the existing regulations, a student has to earn the degree in a minimum period of 4 years and maximum of 6 years.

WHAT IS CBCS ?

- The basic idea is to look into the needs of the students so as to keep up-to-date with development of higher education in India and abroad.
- CBCS aims to redefine and improve the curriculum keeping pace with the liberalisation and globalisation in education.

AUTONOMY AND CBCS

Curriculum Reforms:

- Restructure and redesign of courses to suit industry needs.
- More choice in selection of electives for the students.
- Interdisciplinary courses offered through Open Electives.
- Extra curricular and Co-curricular activities.
- Mandatory Courses for an all-round development.

UNDER CBCS

- Semester System from the first year
- Credit based system
- Evaluation and assessment through Continuous Internal Evaluation (CIE) and Semester End Examination (SEE)
- Grading system (SGPA/CGPA)
- Feedback from stakeholders to improve curriculum

DEFINITIONS OF KEY WORDS

Academic Year: Two consecutive (one odd + one even) semesters constitute an academic year.

Course:

- Usually referred to, as 'subject' is a component of a programme.
- All courses need not carry the same weightage.
- The courses have learning objectives and learning outcomes.
- A course may be designed to comprise lectures/ tutorials/laboratory work/ field work/ outreach activities/ project work/ viva/ seminars/ term papers/assignments/ presentations/ self-study etc. or a combination of some of these.

DEFINITIONS OF KEY WORDS

Credit:

- A unit by which the course work is measured.
- It determines the number of hours of instructions required per week.
- One credit is equivalent to one hour of teaching (lecture) or two hours of tutorials/practical work/field work per week.

Credit Point:

It is the product of grade point and number of credits for a course.

CREDITS AND GRADES

Academic Performance (%)	Letter Grade		Grade Points
90 to 100	A+	Out Standing	10
80 to 89.99	A	Excellent	09
70 to 79.99	B+	Very Good	08
60 to 69.99	B	Good	07
50 to 59.99	C	Average	06
40 to 49.99	D	Pass	05
0.00	Ab	Absent	Ab
Below 40 (Theory).	F	Fail	0
Below 50(Laboratory)	F	Fail	0

DEFINITIONS OF KEY WORDS

Semester Grade Point Average (SGPA):

- It is a measure of performance of work done in a semester.
- It is ratio of total credit points secured by a student in various courses registered in a semester and the total course credits taken during that semester.
- It shall be expressed up to two decimal places.

Cumulative Grade Point Average (CGPA):

- It is a measure of overall cumulative performance of a student over all semesters.
- The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters.
- It is expressed up to two decimal places.

CATEGORIZATION OF COURSES

- **Humanities and Social Sciences (HS)** courses include Technical English, management, economics, finance for engineers etc.
- **Basic Sciences (BS)** courses include Mathematics, Physics, Chemistry, Biology etc.
- **Engineering Sciences (ES)** courses include Engineering Graphics, Engineering Mechanics, Workshop, Basics of Electrical/ Electronics/ Mechanical/Computer Science Engineering, Instrumentation, computer programming, material science, thermo dynamics and engineering materials etc.
- **Mandatory Courses (MC)** Courses such as Environmental Studies, Technical Communication and Soft Skills, Entrepreneurship etc. whose familiarity is considered mandatory.

CATEGORIZATION OF COURSES

Professional Core Courses (PC) are core courses relevant to the chosen specialization/branch which are to be compulsorily studied by a student as a core requirement to complete the programme requirement in a said discipline of study.

Professional Elective Courses (PE) are courses relevant to the chosen specialization in a given programme offered as electives which can be chosen from a pool of courses. It may be:

- Supportive to the discipline of study.
- Providing an expanded scope.
- Enabling an exposure to some other discipline/domain.
- Nurturing student's proficiency/skill.

CATEGORIZATION OF COURSES

Open Elective (OE)

- A student has to secure 11 credits for open electives courses offered during 3rd to 6th semesters.
- Open Elective subjects are courses from other technical and/or emerging subject areas offered by the Departments of Engineering, Science and Humanities.
- An open elective offered by an Engineering Department should not be taken by the same branch of students.
- All Engineering departments, Mathematics, physics, chemistry and HSS departments offer open electives during 3rd to 6th semester.

PROFESSIONAL ELECTIVES

- Students have to study a **minimum of 6 Professional Elective** courses and have to obtain **minimum 18 credits in theory** during VII & VIII semesters of the programme.

CO-CURRICULAR AND EXTRA-CURRICULAR CLUBS

- As part of imparting interpersonal, teamwork / multitasking skills to the students, **Co-curricular and Extra-curricular clubs have been introduced** in earmarked time slots in the time table from the academic year **2018-19 for 3rd to 6th semester students under CBCS**.

- Students shall have to register online for their choice of extra curricular activities/clubs to be pursued in any given semester (3rd & 5th Sem.). The login time of server will be considered for the allotment of activity on first come first served basis.

- To guide/help students in various club activities, coordinators have been identified

CO-CURRICULAR AND EXTRA-CURRICULAR ACTIVITIES

- Students should participate in the following activities during the 4-Year B.E. programme to become eligible for award of degree for the batches admitted with effect from the academic year 2016-17 under CBCS

•	3rd Semester : CCA1 & ECA1
•	4th Semester : CCA2 + Technical Skills /workshops
•	5th Semester : CCA3 (Paper Presentation) + Technical Skills & ECA2
•	6th Semester : Technical Skills + One Theme-based Project report submission at the end of 6th Semester.
•	One online certification course amongst the courses prescribed by the Department.

CLUBS UNDER EXTRA-CURRICULAR ACTIVITIES

S. NO	NAME OF THE CLUBS
1	The Toastmasters
2	Creative Writing
3	MuN –Model united Nations
4	Dramatics
5	Art
6	Quiz
7	Science Club – Physics & Chemistry
8	Film making
9	Mathematics
10	Photography

ACADEMIC RULES

- **Minimum aggregate sessional (CIE) marks required to become eligible for appearing Semester End Examinations is 40%.**
- **Attendance: Minimum aggregate attendance required to become eligible to attend semester end exams is 75% (65% with Medical Condonation).**
- **A student can use medical condonation facility only 4 (four) times in the entire period of 8 semesters in the span of 4 years B.E programme.**
- **Number of backlogs allowed, will be restricted as per regulations, in order to be promoted to the next higher class.**

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B.E PROMOTION RULES

Semester/Class		Conditions to be fulfilled for
From I-SEM to II-SEM	(a)	Regular course of study of I-SEM and
	(b)	40% aggregate CIE marks in I-SEM
From II-SEM to III- SEM	(a)	Regular course of study of II SEM and 40% aggregate CIE marks in II-SEM and
	(b)	Must have secured at least 50% of total credits prescribed for I and II semesters together
From III-SEM to IV-SEM	(a)	Regular course of study of III-SEM and
	(b)	40% aggregate CIE marks in III- SEM
From IV-SEM to V- SEM	(a)	Regular course of study of IV SEM and 40% aggregate CIE marks in IV-SEM
	(b)	Passed in all the courses of I and II semesters
	(c)	Must have secured at least 50% of total credits prescribed for III and IV semesters put together
From V-SEM to VI-SEM		Regular course of study V-SEM, and 40% aggregate CIE marks in V- SEM
From VI-SEM to VII- SEM	(a)	Regular course of study of VI-SEM and 40% aggregate CIE marks in VI-SEM
	(b)	Passed in all the courses of III and IV semesters.
	(c)	Must have secured at least 50% of total credits prescribed for V and VI semesters put together
From VII-SEM to VIII-SEM		Regular course of study of VII-SEM and 40% aggregate CIE marks in VII-SEM

CREDITS AND GRADES

Academic Performance (%)	Letter Grade		Grade Points
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ASSESSMENT AND EVALUATION SYSTEM

(For I YEAR B.E w.e.f 2020-21 under CBCS)

CIE Marks (40)	Semester End Exams Marks (60)
Theory: 40 Marks **Exam Duration: 1½ hour** • **30** Marks each for two internal examinations, **05** marks for assignments and **05** marks for quizzes in a semester • **Average of two tests, three assignments and three quizzes** will be considered for calculating total CIE marks. • Every student should secure a **minimum of 40% aggregate marks in the internal exams.** **Laboratory: 30 Marks** • 15 marks for day-to-day laboratory class work which will be awarded based on the average of all experiments. • 15 marks for the internal examination.	**Theory: 60 Marks** **Exam Duration: 3 hours** SEE will be conducted for 60 marks. A student should secure a minimum of 40% marks for a pass. **Laboratory: 50 Marks** End examinations will be conducted for 50 marks. A student should secure a minimum of 50% marks for a pass. For a pass in a theory course a student should get 40% of marks from the SEE and CIE put together and 50% for a lab course.

QUESTION PAPER PATTERN FOR CIE

CIE (CONTINUOUS INTERNAL ASSESSMENT)
40 Marks

- **3 Assignments (5 marks)**
- **3 Quizzes (5 marks)**
- **2 Internal Exams (30 marks)**

- **Internal Exam Duration: 90 minutes**
- **Question Paper consists of**
  - **Part-A: Contains 6 Questions of 1 mark each (6 Marks)**
  - **Part-B: Contains 3 (or 4) Questions of 4 (or 3) marks each (12 Marks)**
  - **Part-C: Contains 2 (or 3) Questions of 6 (or 4) marks each (12 Marks)**
- **There is no choice in the question paper. All questions are to be answered.**
- **Blooms Taxonomy will be followed in the question Paper Setting.**

QUESTION PAPER PATTERN FOR SEE

- **Semester End Exam (Theory) Marks: 60**
- **SEE Duration: 3 hours**
- **Question Paper consists of**

  Part-A (20 Marks) : Contains 10 Questions of 2 mark each

  Part-B (40 Marks) : Contains 7 Questions

  Five Questions to be Answered

  Each question carries 8 marks

- **Blooms Taxonomy will be followed in the question Paper Setting.**

ADVANCED SUPPLEMENTARY AND MAKE-UP EXAMINATIONS

- To give equal chances for appearing in Main and Supplementary examinations in both odd and even semesters in the same academic year, **Advanced Supplementary examinations** will be conducted in the months of June/July for even semesters (II, IV and VI) immediately after declaring the results of even semesters. Hence no supplementary examinations will be conducted during the months of November/December for even semesters.
- **Make- Up examinations** will be conducted for the students having backlog courses at VIII semesters of 4th year B.E immediately after release of regular examinations results of VIII semester.

SKILL DEVELOPMENT COURSE : SOFT SKILLS

The main objective of Skill Development Course (Soft Skills) is to enhance the communication skills of students (Written, Oral and Interpersonal skills).

Semester	Course Name	Scheme of Instruction			Scheme of Examination			
		Periods per week			Duration in Hrs	Maximum Marks		Credits
		L	T	P/D		SEE	CIE	
III	Skill Development-I: Communications Skills-I	1	-	-	2	40	30	1
III	Skill Development-II: Aptitude-I	1	-	-	2	40	30	1
IV	Skill Development-III: Aptitude-II	1	-	-	2	40	30	1
V	Skill Development-V: Communications Skills-II	1	-	-	2	40	30	1
VI	Skill Development-VII: Aptitude-III	1	-	-	2	40	30	1

SKILL DEVELOPMENT COURSE : TECHNICAL SKILLS

The main objective of Skill Development Course (Technical Skills) is

- **to enhance exposure to latest technologies**
- **to increase the chances of employability**
- **Industry Standard Coding Practices**

Semester	Course Name	Scheme of Instruction			Scheme of Examination			
		Periods per week			Duration in Hrs	Maximum Marks		Credits
		L	T	P/D		SEE	CIE	
IV	Skill Development Course-IV: Technical Skills -I	1	-	-	2	40	30	1
V	Skill Development Course-VI: Technical Skills –II	1	-	-	2	40	30	1
VI	Skill Development Course – VIII -Technical Skills –III	1	-	-	2	40	30	1

MENTORING SYSTEM

- **Mentoring System** for monitoring regularity and academic performance of students, introduced in the year 2001 by the College was considered as one of the best practices and was listed on the AICTE website.
- **Mentor** – each faculty member acts as Mentor for a group of 15 to 20 students and attends to the problems of students, if any.
- **Director (Student Welfare)** addresses the grievances of students.
- **Professional Student Counselor** addresses the psychological and stress related problems of students by providing individual counseling.
- **Suggestion Boxes** at each academic building have been provided for students to suggest measures on matters pertaining to academics and amenities.

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I-YEAR MENTORS LIST 2020-21

S. No.	Section	Mentor Name	Mobile No.
1	IT-J	Dr. A.S. Sai Prasad	9959418896
2		Mr. M.V. Rao	9959924151
3		Ms. R. Sudha	9491881658
4	IT-K	Dr. G. Ramadevudu	9247802706
5		Mr. K. Rama Krishna	9440504846
6		Mr. M. Jithender Reddy	996232282
7	IT-L	Ms. G. Meena	9866557628
8		Mr. M. Praveen Kumar	9989306166
9		Dr. Arpitha Panda	9030001850

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I-YEAR CLASS COORDINATORS LIST 2020-21

Class	Name of the Coordinator	Mobile No.
IT-J	Ms. D R L Prasanna	8008527776
IT-K	Ms. L. Divya	9866704851
IT-L	Ms. G Meena	9640358747

SMS ALERTS / COMMUNICATION TO PARENTS

- **Online access for monitoring** the daily attendance as well as the academic performance of the students by their parents from college website through the login id and password given to the parents.
- **SMS alerts:** with regard to attendance and academic progress to parents by way of
  - Weekly SMS alerts on attendance.
  - Absenteeism during forenoon session and in case student leaves the college during working hours.
  - Academic performance after internal assessment tests.

IT STUDENT'S ID & PASSWORD FOR LOGIN (SAMPLE)

S.No	Student Name	Father Name	User ID	Password
1	ALLA NIKHITHA REDDY	ALLA BHUPAL REDDY	1602-17-737-087	******
2	POTLURI SHAMPI SRI	POTLURI TEJENDRA PRASAD	1602-18-737-044	******

Vasavi College of Engineering (A), Hyderabad, TS

INDUCTION PROGRAMME SCHEDULE

Two Week ONLINE Student Induction Program for B.E First Year (Academic Year 2020-21)

DAY-1 (25.11.2020)

S.No	Branch/Section	Time						
		10.00-11.00	Short Break	11:30-12.30	Lunch Break	1:30-2.00	Short Break	2.15-4.00
1	IT-A	Address by the Principal, Heads Basic Sciences and H& SS (P-REC)		Academic Rules and Regulations by the Director AEB (P-REC)		College Campus Visit (P-REC)		Interaction with Head of the Department (Live) and Department Visit (P-REC)
2	IT-B							
3	IT-C							

DAY-2 (26.11.2020)

S.No	Branch/Section	Time						
		10.00-11.30	Short Break	12.00-1.30	Lunch Break	2:00-2:30	Short Break	2:45-4.15
1	IT-A	Interaction with HR (Live)		Indian Knowledge System (Streaming)		Library and computational Facilities (P-REC)		Ice- Breaking: Student Interaction (Moderators: CRCs and Mentors) (Live)
2	IT-B							
3	IT-C							

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INDUCTION PROGRAMME SCHEDULE

Two Week ONLINE Student Induction Program for B.E First Year (Academic Year 2020-21)

DAY-3 (27.11.2020)

S.No	Branch/Section	Time				
		10.00-11.30	Short Break	12.00-1.30	Lunch Break	2.30-4.00
1	IT-A	COVID Care & Prevention (Streaming)		Food and Nutrition (Streaming)		Personality and career growth Development (Streaming)
2	IT-B					
3	IT-C					

DAY-4 (28.11.2020)

S.No	Branch/Section	Time				
		10.00-11.30	Short Break	12.00-1.30	Lunch Break	2.30-4.00
1	IT-A	Time and Stress management (Steaming)		Motivational Talk on Success (Streaming)		Creative Activities by the Students (live)
2	IT-B					
3	IT-C					

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INDUCTION PROGRAMME SCHEDULE

Two Week ONLINE Student Induction Program for B.E First Year (Academic Year 2020-21)

DAY-5 (29.11.2020)

S.No	Branch/Section	Time				
		10.00-11.30	Short Break	12.00-1.30	Lunch Break	2.30-4.00
1	IT-A	Health Awareness-Physical Training:Yoga (Live)		Interaction with Student Counsellor (Live)		Learning how to learn (LIVE)
2	IT-B					
3	IT-C					

DAY-6 (01.12.2020)

S.No	Branch/ Section	Time				
		10.00-11.00	Short Break	11.30-1.00	Lunch Break	2.00-3.00
1	IT-A	Foundation course in Engineering Mechanics		Emotional Intelligence (Live)		Foundation course in Physics
2	IT-B					
3	IT-C					

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INDUCTION PROGRAMME SCHEDULE

Two Week ONLINE Student Induction Program for B.E First Year (Academic Year 2020-21)

DAY-7 (02.12.2020)

S.No	Branch/ Section	Time						
		10-11.00	Short Break	11.30-1.00	Lunch Break	1.30-3.00	Short Break	3.15-4.15
1	IT-A	Foundation course in Mathematics		Cyber Security (Streaming)		Problem Solving and Decision Making (Live)		Awareness on Ragging Menace and Anti Ragging Measures (Streaming)
2	IT-B							
3	IT-C							

DAY-8 (03.12.2020)

S.No	Branch/ Section	Time						
		10-11.00	Short Break	11.30-1.00	Lunch Break	1.30-2.30	Short Break	2.45-4.15
1	IT-A	Foundation course in Programming and Problem Solving		Environmental Challenges and harmony (Streaming)		Foundation course in English		Human Values and ethics (Live)
2	IT-B							
3	IT-C							

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INDUCTION PROGRAMME SCHEDULE

Two Week ONLINE Student Induction Program for B.E First Year (Academic Year 2020-21)

DAY-9 (04.12.2020)

S.No	Branch/ Section	Time						
		10-11.00	Short Break	11.30-1.00	Lunch Break	1.30-2.30	Short Break	2.45-4.15
1	IT-A	Foundation course in Engineering Drawing		Creativity and Lateral Thinking (Live)		Foundation course in Maths		Technical communication Skills (Live)
2	IT-B							
3	IT-C							

DAY-10 (05.12.2020)

S.No	Branch/ Section	Time						
		10-11.00	Short Break	11.30-1.00	Lunch Break	1.30-3.00	Short Break	3.00-4.30
1	IT-A	Foundation course in English		Women safety and role of She teams (Streaming)		Awareness on Traffic Rules and Safety (Streaming)		Creative Activities by the Students (live)
2	IT-B							
3	IT-C							

DAY-11 (06.12.2020)

S.No	Branch/ Section	Time						
		10-11.30	Short Break	11.30-1.00	Lunch Break	1.30-2.30	Short Break	2.30-4.00
1	IT-A	Etiquettes of virtual classes (Live+ P-REC)		Social Responsibility and Civic Sense (Live)		Foundation course in Programming and Problem solving		Foundation course in Physics
2	IT-B							
3	IT-C							

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R-BLOCK

Department of Information Technology

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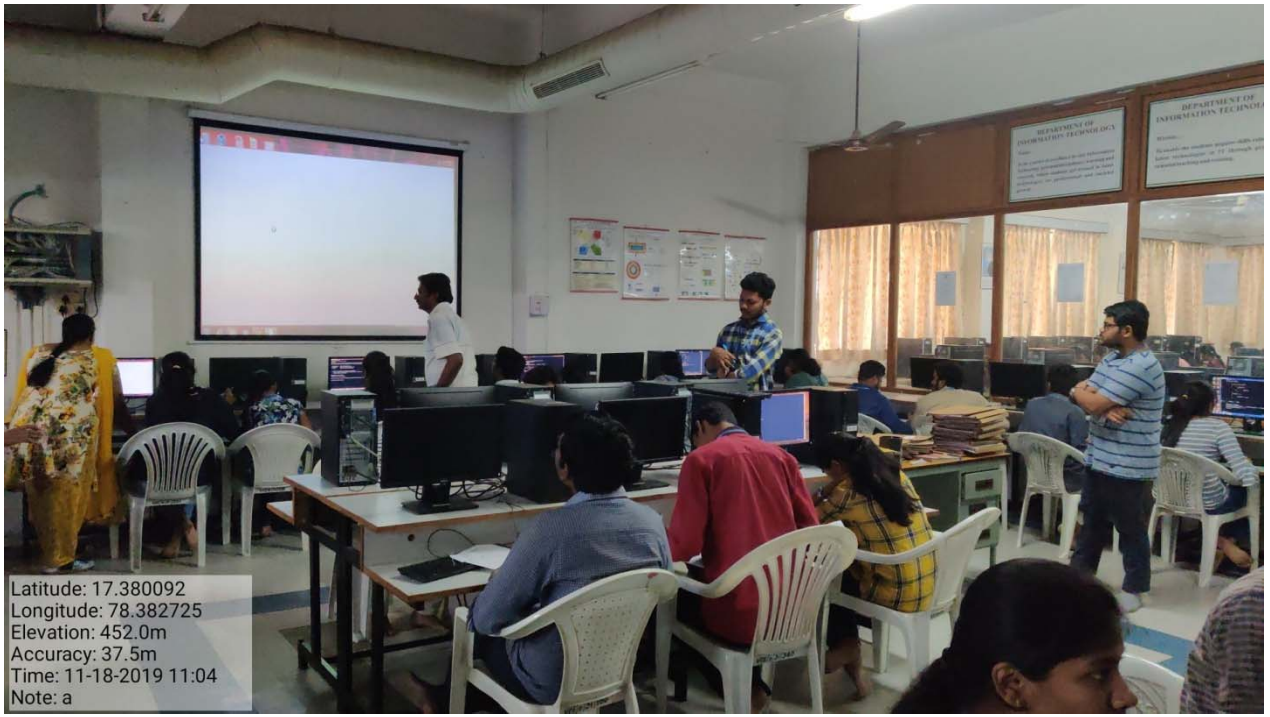

IT LAB-I

S.No	Name of the Equipment	Total No.
1	HP ProDesk 600 G5 SFF Intel® Core i5-9500 CPU @3.00Ghz 16GB RAM,1 TB HDD 18.5" LED Monitor	36
2	NEC VE281XG Projector	01

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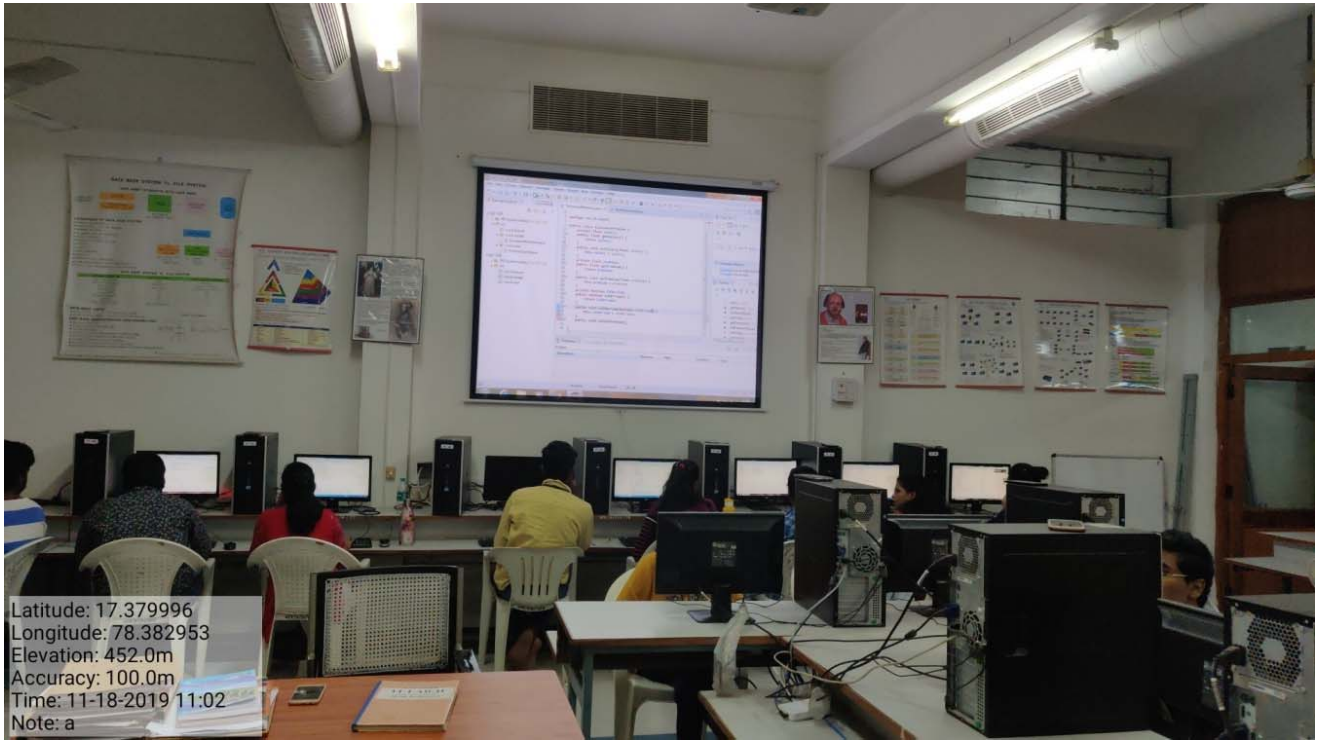
IT LAB-II



S.No	Name of the Equipment	Total No.
1	HP ProDesk 600 G5 SFF Intel® Core i5-9500 CPU @3.00Ghz 16GB RAM,1 TB HDD 18.5 TFT Monitor	36
2	EPSON EB-X05 Projector	01

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IT LAB-III

S.No	Name of the Equipment	Total No.
1	DELL OPTIPLEX 7040 MT PC Intel® core I5-6500 CPU @3.20GHz 8GB RAM,500GB HDD 18.5" LED DELL Monitor	36
2	NEC VE280X Projector	01

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IT LAB-IV

S.No	Name of the Equipment	Total No.
1	HP-Compaq Elite 8100 CMT PC, intel® core i5- 650 CPU@ 3.20GHz, 8 GB RAM, 320 GB HDD, 18.5”TFT Monitor	36
2	Sony VPL DX240 Projector	01

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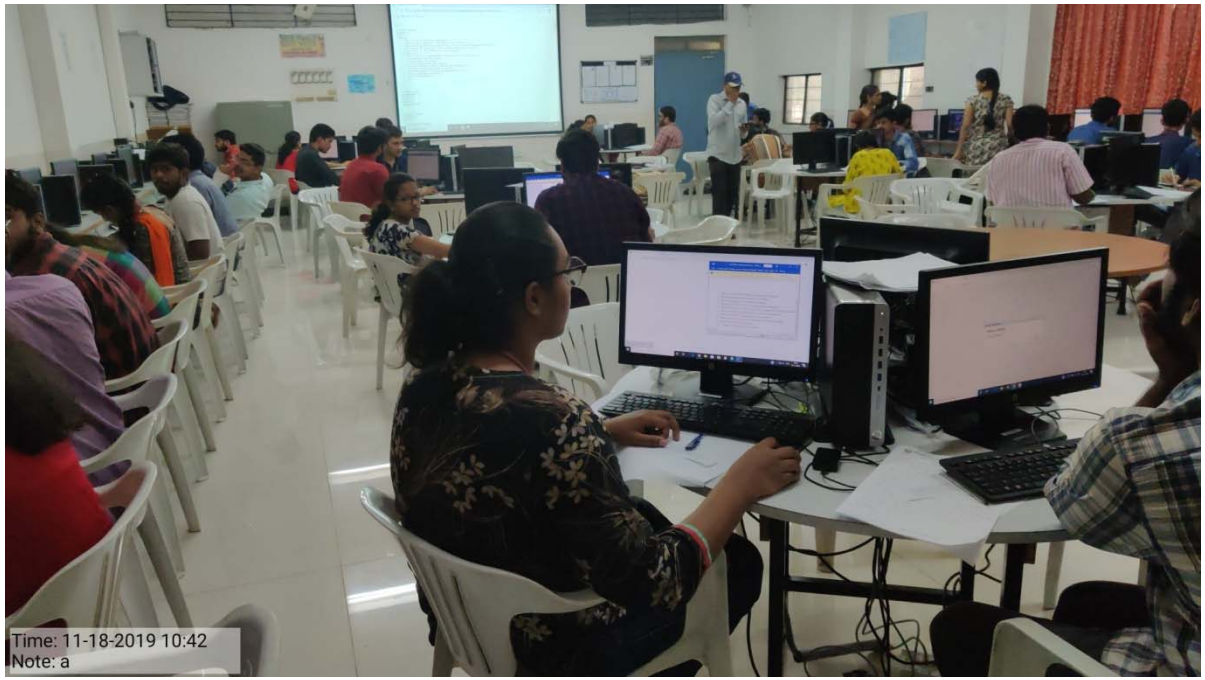
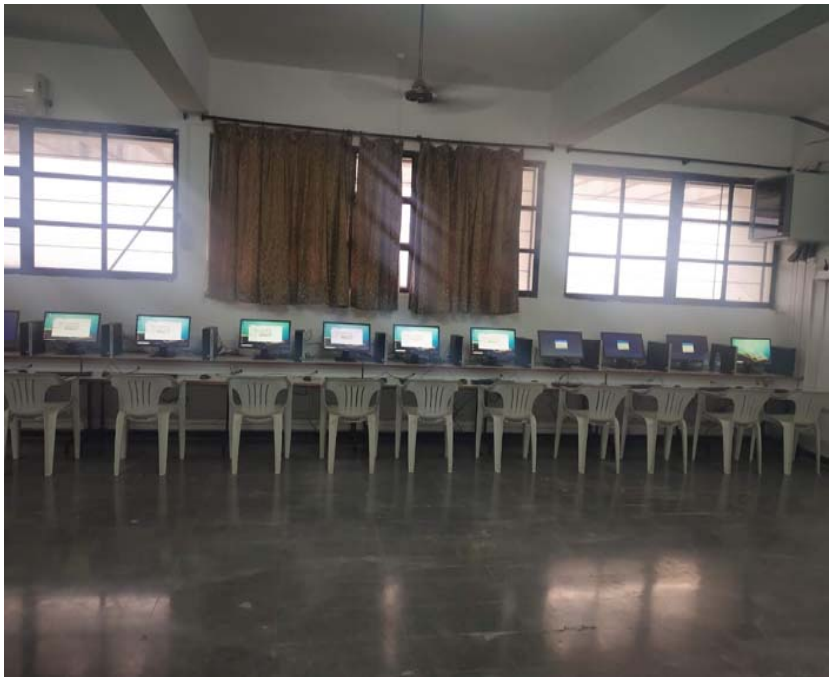


IT LAB-V

S.No	Name of the Equipment	Total No.
1	HP ProDesk 600G3 SFF Intel® Core I5-7500 CPU @3.40 GHz 16GB DDR4 ,1 TB HDD 18.5" LED Monitor	72
2	EPSON EB-X05 Projector	01



IT LAB-VI (Project Lab)

S.No	Name of the Equipment	Total No.
1	HP ProDesk 600 G5 SFF Intel® Core i5-9500 CPU @3.00GHz 16GB RAM,1 TB HDD 19.5" LED Monitor	36
2	EPSON EB-X05 Projector	01

SERVERS

S.No	Server Name	Server Configuration
1	Deep Learning Server	IBM Server 8335 – GTH Server with 2 NVidia P100 GPU with NVlink technology Access to Power AI Framework Access
2	Oracle 11G Database	HP DL385 AMD Opteron Model : DL385 G7 Processor : 2.3GHz RAM : 32GB HDD : 3 X 300GB
3	RHEL 6.0	HP Proliant ML 370 G5 Model : ML 370 G5 Processor : Quad-Core Xeon 2.0GHz RAM : 4GB HDD : 3 X 146GB

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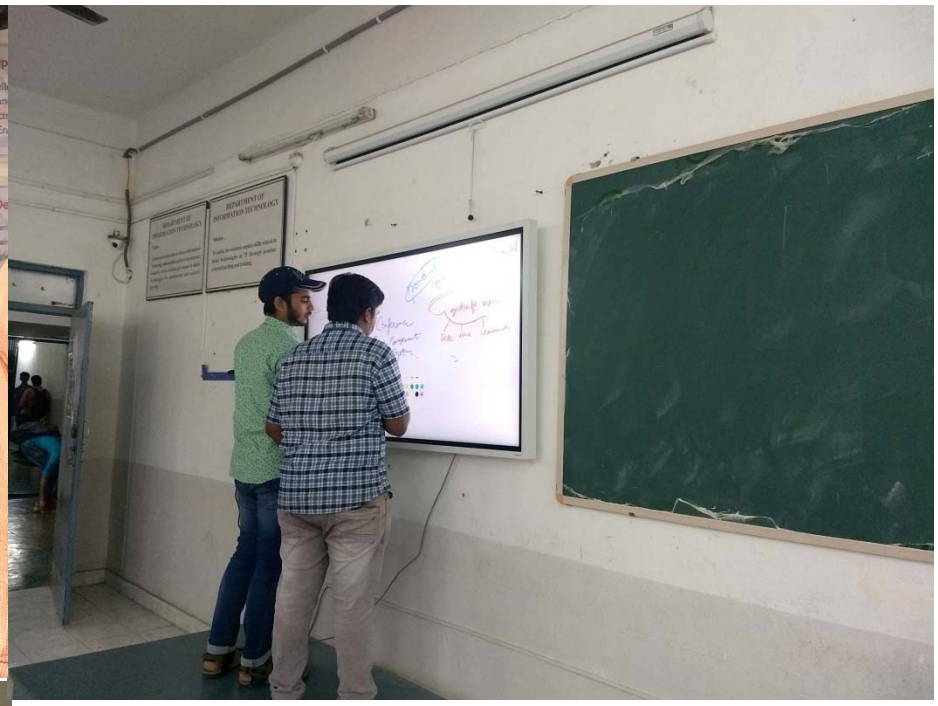

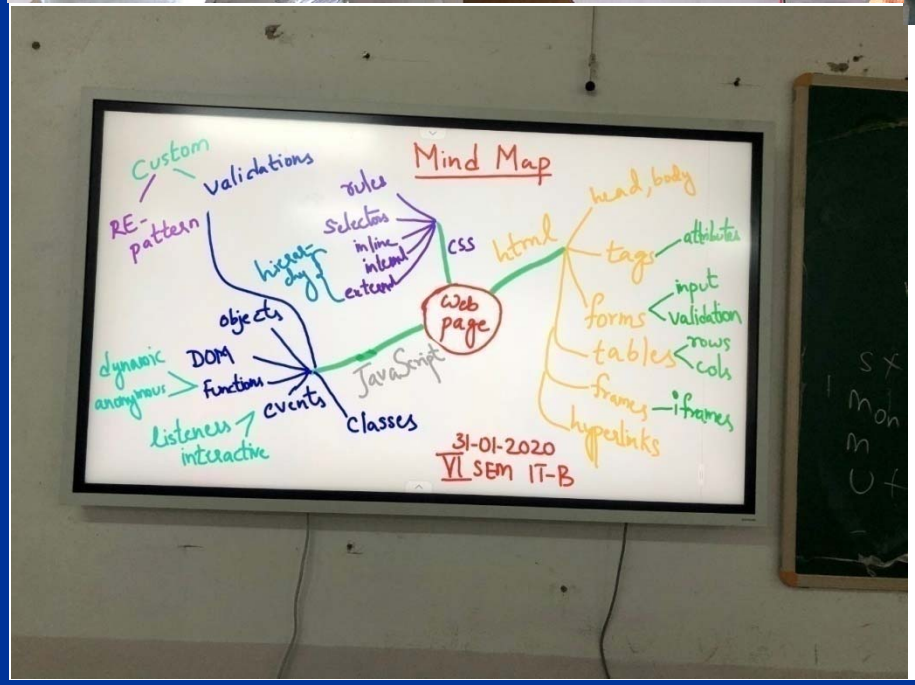

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