



P P SAVANI
UNIVERSITY

EXPLORE
EXPERIENCE
EMPOWER

STUDENT

School of
Sciences

HAND BOOK

AY: 2019-20

PP SAVANI UNIVERSITY



EXPLORE
EXPERIENCE
EMPOWER

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About the University

*An Ordinary Teacher Lectures,
A Good Teacher Teaches,
A Great Teacher Inspires...*

We, at P P Savani Group, have been the source of Educational Inspiration for the generations of students for the last 30 years.

Launched in 1987, P P Savani Education Trust was initiated with a school. Today, the trust has expanded itself over the years with a group of schools in not only Surat district but also across Gujarat with student strength of more than 45,000. In 2016, the Trust expanded its horizons with the launch of P P Savani Knowledge City – an initiative in higher education to align with global standards of excellence. Through this immersive educational endeavor, the Governing Body aims to ignite a new era in higher education and create a talent pool of professionally sensitized industry-ready professionals in South Gujarat. A world class 100 acre campus has been developed consisting of Hi-tech infrastructure facilitating undergraduate, postgraduate, research, certificate and skill-development programmes.

Presently, P P Savani University offers several Academic Programmes under 06 Schools – Sciences, Engineering, Management, Architecture & Design, Physiotherapy and Nursing. The university fosters an aspiration to attract the best not only from Gujarat but also Nationwide. We aspire to be the ideal place where the students channelize their energy in developing competence to utilize knowledge and skills in the chosen field. Today, in the hyper-competitive world of survival of the fittest, we assure to equip the students with the apt tools to build a solid foundation for their careers.

The university desires to establish an environment wherein the students assimilate knowledge and develop critical thinking through state-of-art laboratories, industrial exposure, interactive sessions industry experts, scientists and business tycoons. The tie ups with industries in various sectors are aimed at providing placement support to the students and also to leverage the Industry Academia Interface to promote research and consulting projects. The process of developing strategic partnerships with Indian and International Universities of repute is in pipeline.

The university also believes in strong conviction in the holistic development of the students through sports, cultural and recreation activities in the campus. Moreover, idyllic stroll by the lakeside makes the academic experience more joyful and peaceful. Also, celebration of the National Holidays as well as other diverse events like Yoga Day, Rose Party or Guru Purnima among the staff members and students strengthens a connection to the community and the desire of giving back to the society. The University is nestled in the outskirts of the city and the ambience proves to be an inspiration to inquisitive minds.

Come, visit and experience the vibes...!

Blessings from the President...



It is an immense pleasure to welcome all the students to the Academic World of P P Savani University. We are desirous preparing leaders who can contribute in the national and global economy and as a result, the civilization. We desire to provide environment at the campus where students can be prepared to take up challenges of 21st century.

Technical education is the backbone of every Nation. Our aim is not only to give good technocrats to the Nation but also to contribute to the society by molding students into good human beings by imparting values and ethics which are embedded for life.

Our vision is to develop the professionals concerned for social values. We seek to provide to the students quality education of Soft skills and Technical skills. To match up the current corporate world and their expectations, we have developed well equipped workshops, laboratories, library, and hi-tech infrastructure to help students to attain highest standards in Academics. We focus on empowering students with sound knowledge, wisdom, experience and training both at academic level of engineering and highly competitive industrial market.

We assure you that you will be proud of yourself as a confident, successful and skilled engineer after four years at the P P Savani University.

Vallabhchai P Savani
President
P P Savani University

From the Desk of the Provost...



Today, Engineering Education is in a phase of extraordinary transition. Due to this, it has become the responsibility for every academic institution to keep the curriculum, infrastructure and human resource updated and upgraded in the rapidly changing world. We, the P P Savani University, foster an aspiration to grow in terms of student strength and subsequently Faculty strength to serve the academic need of the students better and to accommodate maximum of the talented aspirants to join P P Savani School of Engineering. Our vision for School of Engineering is to establish it as the preeminent center for teaching, research and entrepreneurship in the world of Engineering.

Today, the Engineers must address and dedicate themselves to the most urgent problems faced by society, challenges regarding energy, water, food, health, and the environment, and to resolve them in a sustainable, ethical, and human way. We wish to expand our research enterprise to address our Nation's most difficult and pressing technological problems. The engineering education imparted at P P Savani University will focus on creating industry ready professionals as well as Entrepreneurs.

I believe, today's teaching of engineering has ample opportunities and need for transformation in terms of teaching tools and methodology. We desire equip the latest technologies to our classrooms to shape the career of the students. We have designed our engineering curricula integrated with the best of the world class resources coping with industrial needs.

I am very excited and hopeful about the future of School of Engineering, and looking forward to deal with our students, faculty and friends to lead our school to new heights.

I wish you all the best for an effort to shape your career at P P Savani University.

Dr Parag Sanghani
Provost
P P Savani University

Inspirations from the Dean...



"Knowledge brings humility, from humility comes courtliness, with courtliness one attains wealth, with wealth one is able to perform his duties in a better way; and in performing his duties one attains happiness."

Dear students,

Welcome to the world of Engineering!

In today's era of cut through competition, it is very important to be equipped with contemporary knowledge and apt skill sets. To be successful in life one must have ambition, defined goals, discipline, positive attitude & habits, hard work and concentrated efforts to achieve success.

At P P Savani School of Engineering, we groom our students for successful academic, professional and eventually social life. Along with teaching, we nurture students with creativity, excellence, critical thinking, entrepreneurial skills, organizational interpersonal and communication skills and life values. There is also ample scope in extracurricular and co-curricular activities at the campus to encourage students to showcase their talent.

As world is becoming more complex day by day, it is tough to survive through conventional academic approach. P P Savani School of Engineering has pioneered new approaches to the teaching learning process which will provide comfortable, enjoyable and easy learning environment to the students. We offer the key to uncover knowledge through interdisciplinary studies and research. We are equipped with hi-tech tools which were unimaginable a decade ago in a form of learning technologies. We also facilitate to discover new insights in how brain functions and develops, which together would change the nature of teaching and learning.

Students, I wish you to become an active beneficiary of the academic and academic support facilities provided by the University through which you will get rewarding career.

Good Luck...!

Dr Niraj Shah

Dean, School of Engineering
P P Savani University

Schools and Programmes @ University

At present, under ambit of P P Savani University following programmes are offered under various schools:

School	Programmes Offered
School of Sciences	Bachelor of Science in <ul style="list-style-type: none"> • Biotechnology • Micro-biology • Environmental Sciences • Chemistry • Information Technology Master of Science in <ul style="list-style-type: none"> • Biotechnology • Micro-biology Integrated Course of Master of Science in <ul style="list-style-type: none"> • Biotechnology • Micro-biology
School of Architecture & Design	<ul style="list-style-type: none"> • Bachelor in Interior Design • Bachelor in Architecture
School of Physiotherapy	<ul style="list-style-type: none"> • Bachelor of Physiotherapy
School of Nursing	<ul style="list-style-type: none"> • B Sc. Nursing • GNM
School of Engineering	Bachelor of Technology in <ul style="list-style-type: none"> • Civil Engineering • Mechanical Engineering • Computer Science Engineering • Information Technology • Chemical Engineering
School of Management	<ul style="list-style-type: none"> • Bachelor of Business Administration Integrated Course of Management in <ul style="list-style-type: none"> • Master of Business Admission
School of Liberal Arts	<ul style="list-style-type: none"> • Bachelor of Arts
School of Design	Bachelor of Design in <ul style="list-style-type: none"> • Fashion & Textile Design • Graphics & Communication Design • Interior & Space Design

Faculty Profile of School of Engineering



NAME	Dr. Niraj D Shah
Qualification	Ph. D. (Civil-Structural Engineering)
Designation	Principal
E Mail	niraj.shah@ppsua.ac.in
Experience	19 Years



NAME	Dr. Ashish N Jani
Qualification	Postdoctoral Fellowship
Designation	Associate Professor (Computer Engg.)
E Mail	ashish.jani@ppsua.ac.in
Experience	12 Years



NAME	Dr. Jasleen Kaur
Qualification	Ph. D. (Computer Engineering)
Designation	Associate Professor (Computer Engg.)
E Mail	jasleen.kaur@ppsua.ac.in
Experience	13 Years



NAME	Mr. Mitul N Raj
Qualification	M.Tech. (Information Technology)
Designation	Assistant Professor (IT Engg.)
E Mail	rajmitul@ppsua.ac.in
Experience	4 Years

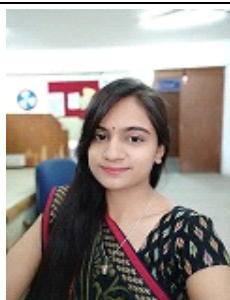
Faculty Profile of School of Engineering



NAME Ms Neha Shah
Qualification B.E. (IT) , M. Tech (Computer science)
Designation Assistant Professor (IT Engg.)
E Mail neha.shah@pps.ac.in
Experience 6 Years 2 Months



NAME Mr. Raviraj Chauhan
Qualification BE (IT), M. Tech. (Computer Engineering)
Designation Assistant Professor (IT Engg.)
E Mail raviraj.chauhan@pps.ac.in
Experience 4 Years 11 Months



NAME Ms. Aarti Patel
Qualification M.E. (Information Technology)
Designation Assistant Professor (IT Engineering)
E Mail aarti.patel@pps.ac.in
Experience 10 Months



NAME Ms. Bannishikha P. Banerjee
Qualification M.E. (Computer Engineering)
Designation Assistant Professor (Computer Engineering)
E Mail bannishikha.banerjee@pps.ac.in
Experience 2 Years 9 Months

Academic Rules & Regulations

1. Important Terms

- a. Academic Year: Two consecutive (one odd + one even) semesters constitute one academic year.
- b. Semester: Each semester will consist of 15-18 weeks of academic work equivalent to 90 actual teaching days. The odd semester may be scheduled from July to December and even semester from January to June.
- c. Programme: An educational programme leading to award of a Degree, diploma or certificate.
- d. Course: Usually referred to, as 'paper/subject' is a component of a programme. All courses need not carry the same weight. A course may be designed to comprise lectures/ tutorials/laboratory work/ field work/ outreach activities/ project work/ vocational training/viva/ seminars/term papers/assignments/ presentations/ self-study etc. or a combination of some of these. The courses should define learning objectives and learning outcomes and prerequisite if any.
- e. Choice Based Credit System (CBCS): The CBCS provides choice for students to select from the prescribed courses (foundation, core, elective or skill courses). The Choice Based Semester System will be followed across P P Savani University both at Undergraduate and Post Graduate levels. Each enrolled student will be required to take a minimum specified load of course work in the chosen subject of specialization and also complete a project/dissertation if any. Once registered at the start of semester, any student will not be allowed to withdraw the subject at any point of time during the semester.
- f. Credit Based Semester System (CBSS): Under the CBSS, the requirement for awarding a degree or diploma or certificate is prescribed in terms of number of credits to be completed by the students.
- g. 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 tutorial) or two hours of practical work/field work per week. In general, 1 credit is equivalent to 15 hours of teaching (lecture or tutorial) or 30 hours of practical work/field work.
- h. Letter Grade: It is an index of the performance of students in a said course. Grades are denoted by letters O, A+, A, B+, B, C, P and F.
- i. Grade Point: It is a numerical weight allotted to each letter grade on a 10-point scale.
- j. Credit Point: It is the product of grade point and number of credits for a course.
- k. 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.
- l. 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.
- m. Transcript or Grade Card or Certificate: Based on the grades earned, a grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured) along with SGPA of that semester and CGPA earned till that semester.

2. Admissions

- Admission under various courses will be done as per prescribed guidelines of the government of Gujarat and P P Savani University.
- A candidate to be eligible for Lateral Entry Admission (Admissions into second year of Programme) should have passed eligibility examination in the relevant discipline conducted by a recognized University.
- A candidate from other university is allowed to join P P Savani University after transfer of grades, scored in the earlier university, as suggested by Equivalence Committee of the University provided the student has to undertake at-least 50 per cent of the courses at P P Savani University.

3. Programme Duration

The minimum and maximum duration of various programmes offered at P P Savani University are as under:

School of	Specialization	Minimum No of Semesters	Maximum No of Semesters
Science	B Sc in Biotechnology	5	12
	B Sc in Micro-biology	5	12
	B Sc in Environmental Sciences	5	12
	B Sc in Chemistry	5	12
	B Sc in Information Technology	5	12
	M Sc in Biotechnology	3	8
	M Sc in Micro-biology	3	8
	Integrated M Sc in Biotechnology	9	20
	Integrated M Sc in Micro-biology	9	20
Architecture & Design	Bachelor in Interior Design	9	20
	Bachelor in Architecture	7	16
Physiotherapy	Bachelor of Physiotherapy	8	18
Nursing	B Sc Nursing	8	16
	GNM	6	12
Engineering	B Tech in Civil Engineering	7	16
	B Tech in Mechanical Engineering	7	16
	B Tech in Computer Science Engineering	7	16
	B Tech in Information Technology	7	16
	B Tech in Textile Engineering	7	16
	B Tech in Chemical Engineering	7	16
Management	Bachelor of Business Administration	5	12
	Integrated Master of Business Administration	9	20
Liberal Arts	Bachelor of Arts	5	12
Design	Bachelor of Design in Fashion & Textile	7	16
	Bachelor of Design in Graphics & Communication	7	16
	Bachelor of Design in Interior & Space	7	16

4. Enrolment Number

Each student securing admission under P P Savani University will be issued a unique Enrolment Number which follow pattern as:

Year of Admission		Initials of School		Type of Course		Specialization Code		Roll No		
1	7	S	S	0	2	C	V	0	0	1

School	Initials	Type	Number
Science	SS	Diploma	01
Architecture & Design	SA	UG	02
Physiotherapy	SP	PG	03
Nursing	SN	Ph D	04
Engineering	SE	Certificate	05
Management	SM	Integrated	06
Liberal Arts	SL	Dual Degree	07
Design	SD	Migrated/Transferred	08
		D to D	09

School of	Specialization	Code
Science	B Sc in Biotechnology	BT
	B Sc in Micro-biology	MB
	B Sc in Environmental Sciences	ES
	B Sc in Chemistry	CH
	B Sc in Information Technology	IT
Architecture & Design	Bachelor in Interior Design	ID
	Bachelor in Architecture	AR
Physiotherapy	Bachelor of Physiotherapy	PH
Nursing	B Sc Nursing	NR
	GNM	GN
Engineering	B Tech in Civil Engineering	CV
	B Tech in Mechanical Engineering	ME
	B Tech in Computer Science Engineering	CE
	B Tech in Information Technology	IT
	B Tech in Textile Engineering	TE
	B Tech in Chemical Engineering	CH
Management	Bachelor of Business Administration	BA
	Bachelor of Commerce	BC
	Master of Business Administration	MA
Liberal Arts	Bachelor of Arts	AT
Design	Bachelor of Design in Fashion & Textile	FT
	Bachelor of Design in Graphics & Communication	GC
	Bachelor of Design in Interior & Space	IS

5. Course Nomenclature

All Courses/Subjects offered for the **Under Graduate Programmes** are broadly classified & offered as:

Type of Course	Percentage Courses	To be offered at Year
Foundation Courses	15-20%	1, 2
Core Courses	50%	2, 3, 4
Elective Courses	20%	2, 3, 4
Skill Enhancement Courses	15-10%	1, 2, 3, 4

Each Course/Subject offered at P P Savani University will have a unique Course Code which follows pattern as:

Initials of School		Specialization Code		Maximum Level at Which the Course can be Offered	Subject Code		No of Prerequisite Subjects to be Passed
S	S	B	T	2	2	1	2

School	Initials	Level	Number
Science	SS	First Year	1
Architecture & Design	SA	Second Year	2
Physiotherapy	SP	Third Year	3
Nursing	SN	Fourth Year	4
Engineering	SE	Fifth Year	5
Management	SM	Master 1 st Year	7
		Master 2 nd Year	8

6. Attendance

- Attendance is compulsory in all subject. The minimum attendance under each course is 80%. Any student failing to fulfil attendance requirements, will not be allowed to appear for University Examination. In case of genuine medical reasons like serious personal illness or accident or family calamity, the maximum permissible attendance relaxation can be up to 10% maximum, subject to approval from Dean of respective school.
- A student, who fails to fulfil attendance requirements under one or more subjects, the grade awarded will be TN and the student has to register and study, the course once again.

7. Programme Credit

The minimum and maximum credits per semester along with total programme credits for various Programmes are as under:

School of	Specialization	Course Duration Semesters	Minimum No of Semesters	Maximum No of Semesters	Maximum Contact Hours/Wk	Total Credits
Science	B Sc in Biotechnology (Honors)	6	5	12	35	140
	B Sc in Micro-biology (Honors)	6	5	12	35	140
	B Sc in Environmental Sciences (Honors)	6	5	12	35	140
Architecture & Design	Bachelor in Architecture	10	9	20	35	230
	Bachelor in Interior Design	8	7	16	35	180
Physiotherapy	Bachelor of Physiotherapy	9	8	18	42	220
Nursing	B Sc Nursing	8	7	16	42	270
	GNM	6	-	-	-	-
Engineering	B Tech in Civil Engineering	8	7	16	35	180
	B Tech in Mechanical Engineering	8	7	16	35	180
	B Tech in Computer Science Engineering	8	7	16	35	180
	B Tech in Information Technology	8	7	16	35	180
	B Tech in Textile Engineering	8	7	16	35	180
	B Tech in Chemical Engineering	8	7	16	35	180
Management	Bachelor of Business Administration	6	5	12	35	140

8. Courses to be offered

All Courses/Subjects offered for the **Under Graduate Programmes** are broadly classified & offered as:

Type of Course	Percentage Courses	To be Decided by
Foundation Courses	15-20%	Director of School
Core Courses	50%	Director of School
Elective Courses	20%	Refer Section 12
Skill Enhancement Courses	15-10%	Refer Section 13

9. Guidelines for Offering Elective Courses

- The director of the school will offer School/Department specific elective courses to the school & department students.
- The director of the school will offer **two to five open elective courses** to the students of other schools.

Examination Policy

1. Abbreviations

SOE: School of Engineering

2. Course Coordinator

A faculty member, within university, who is responsible for all the activities related to a particular course such as syllabus completion, internal evaluation, exam coordination etc.

3. Course Evaluation

All Courses/Subjects offered at P P Savani University shall be evaluated under two heads:

- a. **Continuous Evaluation (CE)** component which is under sole discretion of the course coordinator. It is expected that the continuous evaluation should consist of Unit Test/ Weekly Test/ Fortnightly Test/ Class Test/ Presentations/ Project Work/Assignment/ Group Discussion/ Quiz/ Seminar/ Debate etc.
- b. The marks of CE component should be submitted by course coordinator to University Exam Section in the format prescribed by the University.
- c. The course coordinator shall submit the answer sheets along with the final marks after showing the same to the students within 07 days of the Examination.
- d. **The maximum mark of Continuous Evaluation (CE) component is 40 percent.**
- e. **End Semester Examination (ESE)** will be conducted by University through written paper or practical test or oral test or presentation by the student or a combination of any one, two or more of these.
- f. The End Semester Examination will be evaluated by appointing two subject experts, One from outside University and another from within University, for all courses offered under University.
- g. **The maximum mark of End Semester Examination is 60 percent.**
- h. The total of the Continuous Evaluation Component and End Semester Examination marks in each course will be converted to a letter grade on a ten-point scale as per the following scheme:

Percentage of Marks	Grade	Grade Point
90-100	O	10
80-89.99	A+	9
70-79.99	A	8
60-69.99	B+	7
50-59.99	B	6
45-49.99	C	5
40-44.99	P	4
< 40%	F	0

- i. In order to earn the credit in a course a student has to obtain grade other than F.
- j. A student, who remains “Absent” in University Exam will be awarded F grade.
- k. A student, who obtains F grade, has to appear for Re-Test of university examination scheduled immediately after declaration of result. In case the candidate secures grade other than F, he/she will be awarded maximum grade of B+ after retest.
- l. A student, who obtains F grade, after Re-Test of university examination, has to repeat the university examination of the same course(s) till he/she obtains grade other than F.
- m. No student is allowed to upgrade the grade, if he/she scored grade other than F.
- n. The student’s performance in any semester will be assessed by the Semester Grade Point Average (SGPA). Similarly, his/her performance at the end of two or more consecutive semesters will be denoted by the Cumulative Grade Point Average (CGPA). The SGPA and CGPA are calculated as per guidelines of UGC.
- o. In a semester, the SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e.

$$SGPA (S_i) = \frac{\sum(C_i \times G_i)}{\sum C_i}$$

Where, C_i is the number of credits of the i th course and G_i is the grade point scored by the student in the i th course.
- p. The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a programme, i.e.

$$CGPA = \frac{\sum(C_i \times S_i)}{\sum C_i}$$

Where, S_i is the SGPA of the i th semester and C_i is the total number of credits in that semester.
- q. The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the grade-card & transcript.

4. Promotion Rules

- a. All the students of odd semester are allowed to move to even semester irrespective of their results.
- b. At the end of a year, a student is not allowed to move to odd semester in case of his/her CGPA is less than 3.00.
- c. Over and above, the school has to follow the guidelines laid down by the statutory body time to time.
- d. The detained students will have to register for all the failed courses of previous two semesters with course fees worth Rs. 3000/- per course.

5. Examination Schedule

Each School shall decide and design the University Examination Schedule within one month of the beginning of the Semester. However, it shall be prepared in consultation with the Exam Section of the University.

6. Conduction of Examination

Each question paper shall comprise of 02 Sections, equally divided in terms of marks. Each question paper shall carry 60 % easy, 20 % moderate and 20 % difficult questions. The exam will be conducted primarily in the Answer sheet of 24 pages. If needed, the student may be provided with a supplementary of 04 pages. Each section will be written in different Answer sheet.

Each course/ subject is divided into 60 % and 40 % as ESE and CE respectively. 40 % CE will be carried out by the respective school/ department. Moreover, the Course Coordinator will submit the CE marks to the Exam Section after the due verification by the respective Head/ Principal within 07 days of the completion of the Internal Examination.

- a. Examination Order: The Exam Section will send the exam order to both – Internal and External examiner via E mail at least two months prior to the schedule anticipating the confirmation of arrival with the course coordinator. The order shall carry the theory and practical examination date.
- b. Paper setter: The internal and the external examiner will set both the sections separately consisting of equal marks distribution of total weightage of question paper. It shall be submitted in hard as well as soft copies. The exam section will randomly select one section from both the submitted question papers. The remaining paper shall be utilized for the remedial examinations.
- c. The External Examiner will be sent the syllabus along with the format of question paper. He/she will also be informed about the online submission of the question paper with the assessment scheme and answer keys.
- d. The internal and external examiner shall assess the section 01 and 02 respectively. The examiners shall complete the assessment within 07 days of the date of exam.
- e. The final marks of University Theory Exam will be entered by the Exam Section with double layer verification. However, final marks of internal exam will be entered/ submitted by internal examiner followed by the verification by the course coordinator within 07 days.
- f. The minimum passing criteria for any (theory/ practical) Examination is 40 % of ESE as well as 40 % of overall marks.
- g. The internal examiner will enter the internal and external marks of practical examination on the same day of practical examination on the portal.
- h. For the backlog students, the re-exam will be scheduled only in the next University Semester End Examination.

7. UFM (Unfair Means):

No candidate/ examinee shall use unfair means or indulge in disorderly conduct at or in connection with examinations.

Unfair Means shall include the following:

1. During examination time having in possession or access to
 - a) Any paper, book, note or any other material (relevant or irrelevant).
 - b) Mobile Phones or any electronic gadget other than scientific calculator, even in switch off mode, which can potentially be used for communication or copying.
 - c) Anything written on any other instrument or any kind of furniture or any other substance which may have relevance to the syllabus of the examination paper concerned.
 - d) Anything written or signs made on the body of the candidate or his/her clothes/garments, handkerchief etc which may have relevance to the syllabus of the examination paper concerned.
 - e) Anything written on the question paper which may have relevance to the syllabus of the examination paper concerned.
2. Giving or receiving assistance in answering the question papers to or from any other candidate/person in the examination hall or outside during the examination hours.
3. Talking to another candidate or any unauthorized person inside or outside the examination room during the examination hours without the permission of the invigilating staff.
4. Swallowing or attempting to swallow or destroying or attempting to destroy a note or paper or any other material.
5. Impersonating any candidate or getting impersonated by any person for taking the examination.
6. If the candidate is found reading or possess some incriminating material relevant to the syllabus of the paper in verandah, urinal etc during his/her examination duration.
7. If the behavior of the candidate on being caught is unsatisfactory or the candidate uses resistance/violence against the invigilator or any person on examination duty or consistently refuses to obey the instructions.

UFM Process & Review:

If a candidate is found practicing any of above mentioned Unfair Means:

- a. UFM report to be filed by Jr & Sr Supervisor of the centre.
- b. He/she should be allowed to complete the same exam without giving any extra time.

In case of UFM in the University Examination, the Provost will form a committee after the completion of the Examination for the same school. After the exam, the committee shall conduct an interaction with the concerned Jr & Sr Supervisor, the candidate & parents. The committee shall submit the report of the same next day of the interaction.

Norms of Punishment:

The following norms for punishment are laid down, if found guilty by the committee formed by the Provost.

Type of UFM practiced	Punishment to be imposed
<p>1. During examination time having in possession or access to</p> <p>a) Any paper, book, note or any other material (relevant or irrelevant).</p> <p>b) Mobile Phones or any electronic gadget other than scientific calculator, even in switch off mode, which can potentially be used for communication or copying.</p> <p>c) Anything written on any other instrument or any kind of furniture or any other substance which may have relevance to the syllabus of the examination paper concerned.</p> <p>d) Anything written or signs made on the body of the candidate or his/her clothes/garments, handkerchief etc which may have relevance to the syllabus of the examination paper concerned.</p> <p>e) Anything written on the question paper which may have relevance to the syllabus of the examination paper concerned.</p>	<p>The candidate will be awarded F Grade in 02 courses: one in which he is found guilty and second in which he has scored minimum marks other than F & to be declared as Pass.</p>
<p>2. Giving or receiving assistance in answering the question papers to or from any other candidate/person in the examination hall or outside during the examination hours.</p>	<p>His/her examination result in that course will be cancelled and F grade will be awarded in that course.</p>
<p>3. Talking to another candidate or any unauthorized person inside or outside the examination room during the examination hours without the permission of the invigilating staff.</p>	<p>His/her examination result in that course will be cancelled and F grade will be awarded in that course.</p>
<p>4. Swallowing or attempting to swallow or destroying or attempting to destroy a note or paper or any other material.</p>	<p>The candidate will be awarded F Grade in 02 courses: one in which he is found guilty and second in which he has scored minimum marks other than F & to be declared as Pass.</p>
<p>5. Impersonating any candidate or getting impersonated by any person for taking the examination.</p>	<p>The candidate will be awarded F Grade in 02 courses: one in which he is found guilty and second in which he has scored minimum marks other than F & to be declared as Pass.</p>
<p>6. If the candidate is found reading or possess some incriminating material relevant to the syllabus of the paper in verandah, urinal etc during his/her examination duration.</p>	<p>The candidate will be awarded F Grade in 02 courses: one in which he is found guilty and second in which he has scored minimum marks other than F & to be declared as Pass.</p>
<p>7. If the behavior of the candidate on being caught is unsatisfactory or the candidate uses resistance/violence against the invigilator or any person on examination duty or consistently refuses to obey the instructions.</p>	<p>The candidate will be awarded F Grade in all course of the semester in which he/she has appeared for examination.</p>

8. Result Declaration:

- a. The Exam Section will declare the result within 15 days of the completion of the examination.
- b. After the declaration of the results, the student can apply for rechecking or reevaluation within 03 days of the declaration of the result with payment as under:
Rechecking: Rs. 200/- per course
Reassessment: Rs. 500 per course
- c. Results for rechecking or reassessment will be declared on 8th day of the declaration of the original result. It will be declared prior to the commencement of University Retest.

List of Foundation Courses

Course Code	Course Name	Preferred Year	Credits	Teaching Scheme		
				L	P	T
SESH1040	Mathematics for Computer Applications	1/2	5	3	0	2
SESH1061	Discrete Mathematics for Computer Applications	1/2	5	3	0	2
SSIT1010	Introduction to Computer Programming	1/2	5	3	4	0
SSIT1020	Web Application Design	1/2	4	2	4	0
SSIT1030	Computer Applications	1/2	3	2	2	0
SSIT1040	Data Structures	1/2	4	3	2	0
SSIT1050	Database Management Systems	1/2	5	3	4	0
SSIT1060	Web Application Development	1/2	2	1	2	0
SSIT1071	Object Oriented Programming with Java	1/2	5	3	4	0
SSIT1920	Seminar-II	1/2	2	2		

List of Skill Enhancement Courses

Course Code	Course Name	Preferred Semester	Credits	Teaching Scheme (Hours)		
				TH	P	T
SEPD1030	Communicative English	1	2	1	2	0
SEPD1020	Communication Skills	2	2	1	2	0
SEPD2010	Critical Thinking, Creativity & Decision Making	3	2	2	0	0
SEPD2020	Values & Ethics	4	2	2	0	0
SEPD3010	Professional Communication & Soft Skills	5	2	1	2	0
SEPD3020	Corporate Grooming & Etiquette	6	2	1	2	0
SEPD3030	Foreign Language (French / German / Chinese / Spanish)	7	2	2	0	0
SEPD3040	Innovation & Entrepreneurship	5/6	3	3	0	0

Academic Calendar 2019-20 (Odd Semester)

P P SAVANI SCHOOL OF ENGINEERING									
Academic Calendar (2019-20) - ODD SEMESTER - For Semester 1 of B Tech & B Sc (IT)									
Week No	Month	M	T	W	T	F	S	S	Activity
1	July	22	23	24	25	26	27	28	Semester 1 Orientation Programme (July 25-26, 2019)
2	July-August	29	30	31	1	2	3	4	Semester 1 Teaching Starts (July 29, 2019 Onwards)
3	August	5	6	7	8	9	10	11	
4		12	13	14	15	16	17	18	12.08.2019..Bakri-Id & 15.08.2019..Independence Day/Raksha Bandhan Holiday
5		19	20	21	22	23	24	25	24.08.2019...Janmashtami Holiday
6	August-September	26	27	28	29	30	31	1	
7	September	2	3	4	5	6	7	8	02.09.2019..Holiday..Samvatsari
8		9	10	11	12	13	14	15	11.09.2019..Holiday..Muharram Engineer's Day Celebrations on September 14
9		16	17	18	19	20	21	22	
10		23	24	25	26	27	28	29	
11	September-October	30	1	2	3	4	5	6	02.10.2019..Holiday..Gandhi Jayanti
12	October	7	8	9	10	11	12	13	08.10.2019..Holiday..Dussehra 12.10.2019..Khelaiya
13		14	15	16	17	18	19	20	Internal Practical Exam (18.10.2019 to 23.10.2019)..11.30 Onwards Internal Theory Exam (18.10.2019 to 23.10.2019)..60 Marks..2 Hours
14		21	22	23	24	25	26	27	Internal Practical Exam (18.10.2019 to 23.10.2019)..11.30 Onwards Internal Theory Exam (18.10.2019 to 23.10.2019)..9 to 11..60 Marks Diwali Break (24.10.2019 to 06.11.2019)
15		October-November	28	29	30	31	1	2	3
16	November	4	5	6	7	8	9	10	Diwali Break (24.10.2019 to 06.11.2019) University Practical Exam (07/11/2019 to 12/11/2019)
17		11	12	13	14	15	16	17	Preparation Leaves (13/11/2019 to 16/11/2019)
18		18	19	20	21	22	23	24	University Theory Exam
19	November-December	25	26	27	28	29	30	1	University Theory Exam
20	December	2	3	4	5	6	7	8	University Theory Exam
21		9	10	11	12	13	14	15	Semester 1 Result (December 14, 2019) / Semester 2 Registration & Fees Payment (December 09-14, 2019) / Semester 2 Teaching Starts (From 12/12/2019)
22		16	17	18	19	20	21	22	Semester 1 Re-Test Registration with Fees Payment (December 16-18, 2019)

All Teaching Staff Members are entitled for 2 Weeks of Diwali Vacation. Vacation Allocation is in sole discretion of the Principal/Management depending on Academic Requirements of the School

First Year Teaching Scheme

B.Sc. (IT)

P P SAVANI UNIVERSITY															
SCHOOL OF SCIENCES															
TEACHING & EXAMINATION SCHEME FOR B.Sc. (IT) PROGRAMME AY:2019-20															
Sem	Course Code	Course Title	Prerequisite	Teaching Scheme				Credit	Examination Scheme						
				Theory	Practical	Tutorial	Total		CE	ESE	CE	ESE	CE	ESE	Total
1	SESH1040	Mathematics for Computer Applications	-	3	0	2	5	5	40	60	0	0	50	0	150
	SSIT1010	Introduction to Computer Programming	-	3	4	0	7	5	40	60	40	60	0	0	200
	SSIT1020	Web Application Design	-	2	4	0	6	4	40	60	40	60	0	0	200
	SSIT1030	Computer Applications	-	2	2	0	4	3	50	0	50	0	0	0	100
	SEPD1030	Communicative English	SEPD	1	2	0	3	2	50	0	20	30	0	0	100
	SSIT1910	Seminar-I	-	-	1	-	-	1	1	0	0	50	0	0	50
				Total				26							800
2	SESH1061	Discrete Mathematics for Computer Applications	SESH1040	3	0	2	5	5	40	60	0	0	50	0	150
	SSIT1040	Data Structures	-	3	2	0	5	4	40	60	20	30	0	0	150
	SSIT1050	Database Management Systems	-	3	4	0	7	5	40	60	40	60	0	0	200
	SSIT1061	Web Application Development	SSIT1020	1	2	0	3	2	0	0	50	0	0	0	50
	SSIT1071	Object Oriented Programming with Java	SSIT1010	3	4	0	7	5	40	60	40	60	0	0	200
	SEPD1020	Communication Skills	-	1	2	0	3	2	50	0	20	30	0	0	100
SSIT1920	Seminar-II	-	-	2	-	-	2	2	0	0	50	0	0	50	
				Total				32							900

Department of Science & Humanities

Course Code: SESH1040

Course Name: Mathematics for Computer Applications

Prerequisite Course(s): --

Teaching & Examination Scheme:

Teaching Scheme (Hours/Week)				Examination Scheme (Marks)						
Theory	Practical	Tutorial	Credit	Theory		Practical		Tutorial		Total
				CE	ESE	CE	ESE	CE	ESE	
03	00	02	02	40	60	00	00	50	00	150

CE: Continuous Evaluation, ESE: End Semester Exam

Objective(s) of the Course:

To help the learners to

- provide foundation of data representation, logical implementation of data.
- educate mathematical concepts to recognize their applications in computer domain.
- demonstrate a basic understanding of a function, its inverse, composition, and notation.
- model and analyze computational processes using analytic and combinatorial methods.

Course Content:

Section I			
Module No.	Content	Hours	Weightage in %
1.	Number System Introduction to Number System, Base, Types of Number Systems, Conversion Between Number Bases, Arithmetic Operations-Addition, Subtraction, Multiplication and Division for Binary, Octal, Hexadecimal Systems, Signed Unsigned Numbers, Binary Coding-BCD, ASCII, EBCDIC, Floating Point Representation of Numbers and Arithmetic Operation with Normalized Floating-Point Numbers.	08	18
2.	Mathematical Logic Propositional Logic, Propositional Equivalences, Predicates and Quantifiers, Nested Quantifiers.	07	16
3.	Set, Relation and Function Basics of Set Theory, Operations on Sets, Relation, Properties of Relation, Equivalence Relation, Hasse Diagram, Introduction to Function, Types of Functions, Exponentials, Logarithms, Rational Functions, Composition of function, Inverse function.	07	16
Section II			
Module No.	Content	Hours	Weightage in %
1.	Elementary Combinatorics Introduction, Basic Counting Principles, Permutation and Combination, Mathematical Induction.	06	14
2.	Determinants Formation of Determinants, Minors and Cofactors of the Elements of a Determinant, Properties of Determinants, Application of Determinants in Computer Science, Cramer's Rule.	08	17
3.	Analytical Geometry Introduction to Cartesian coordinate system, Straight line, Slope of Straight line, Intersection of two straight lines, Equation of circle, Centre and Radius, Tangent, Equation of Parabola, Hyperbola and Ellipse.	09	19

List of Tutorial(s):

Sr. No.	Name of Tutorial	Hours
1.	Number System-1	2
2.	Number System-2	4
3.	Mathematical Logic	4
4.	Set, Relation and Function-1	2
5.	Set, Relation and Function-2	4
6.	Elementary Combinatorics	4
7.	Determinants-1	2
8.	Determinants-2	4
9.	Analytical Geometry-1	2
10.	Analytical Geometry-2	2

Text Book (s):

Title	Author/s	Publication
Discrete Mathematics	T. Veerarajan	Tata McGraw Hill

Reference Book(s):

Title	Author/s	Publication
Discrete Mathematics and its Applications	Kenneth H. Rosen	Tata McGraw Hill
Analytical Geometry: 2D and 3D	P R Vittal	Pearson
Discrete Mathematical Structures with Applications to Computer Science	J. P. Tremblay, R. Manohar	Tata McGraw Hill
Introduction to Computer Science	ITL ESL	Pearson

Web Material Link(s):

- <http://nptel.ac.in/courses/106106094/>
- <http://nptel.ac.in/courses/117103064/4>
- <http://nptel.ac.in/courses/122107036/17>

Course Evaluation:**Theory:**

- Continuous Evaluation consists of two tests each of 30 marks and 1 Hour of duration, which will be converted to 30 marks.
- Faculty evaluation consists of 10 marks as per the guidelines provided by the course coordinator.
- End Semester Examination consists of 60 marks.

Tutorial:

- Continuous evaluation consists of performance of tutorial which will be evaluated out of 10 marks for each tutorial and average of the same will be converted to 30 marks.
- MCQ examination/Application based small project report writing of 10 marks.
- Internal viva consists of 10 marks.

Course Outcome(s):

After completion of the course, the student will be able to

- convert decimal to binary, hexadecimal and 2's complement data representation; perform arithmetic operations like addition, subtraction, division and multiplication.
- use concepts of set theory for understanding & fetching data from database using query.
- apply permutations and combinations on given set of data.

P P Savani University
School of Sciences

Department of Computer Application

Course Code: SSIT1010

Course Name: Introduction to Computer Programming

Prerequisite Course(s): --

Teaching & Examination Scheme:

Teaching Scheme (Hours/Week)				Examination Scheme (Marks)						
Theory	Practical	Tutorial	Credit	Theory		Practical		Tutorial		Total
				CE	ESE	CE	ESE	CE	ESE	
03	04	00	05	40	60	40	60	00	00	200

CE: Continuous Evaluation, ESE: End Semester Exam

Objective(s) of the Course:

To help learners to

- understand how programming can help to solve real time problems.
- identify appropriate approach to computational problems.
- develop logic building and problem-solving skills.

Course Content:

Section I			
Module No.	Content	Hours	Weightage in %
1.	Introduction to Computer Programming Introduction to programs, its significance, classification of programming language, Selection of a programming language.	02	04
2.	Introduction to C Programming Features of C language, structure of C Program, Development of program, Algorithm and flowchart, Types of errors, debugging, tracing/stepwise execution of program, watching variables values in memory.	07	16
3.	Constants, Variables and Data Types Character Set, C tokens, Keywords, Constants and Variables, Data types in C programming, typedef, enum, basic input and output operations.	06	15
4.	Operators and Expression and Managing I/O Operations Introduction to Operators and its types, Evaluation of expressions, Precedence of arithmetic operators, Type conversions in expressions, Operator precedence and associatively. Input and output of different types of data in C language, a character, formatted input, formatted output.	07	15
Section II			
Module No.	Content	Hours	Weightage in %
1.	Conditional Statements and Branching Decision Making & branching: Decision making with if & if ... else statements, if - else statements (Nested Ladder), The Switch & go-to statements, The ternary (? :) Operator Looping: The while statement, The break statement & The Do. While loop, The FOR loop, Jump within loops - Programs.	06	16
2.	Arrays and Strings Introduction to array, One dimensional array, Two dimensional arrays, Declaring and initializing string variables, Arithmetic operations on Characters, Putting strings together, Comparison of two strings, Basic String Handling Functions.	06	15
3.	User-Defined Functions, Structure and Union Concepts of user defined functions, prototypes, definition of function, parameters, parameter passing, calling a function, recursive function, Structure definition, declaring and initializing Structure variables, Accessing Structure members, Union.	06	15
4.	Pointers Introduction to pointers, Declaration, Initialization, Pointer to pointer, Pointer and array.	05	04

List of Practical:

Sr No	Name of Practical	Hours
1.	Introduction to Basic Unix Commands-I	02
2.	Introduction to Basic Unix Commands-II	02
3.	Implement Basic C Programs using scanf() and printf()	02
4.	Implement Basic C Programs to demonstrate different types of operators	02
5.	Implementation in C for conditional statement: if()...else{}	02
6.	Implementation in C for conditional statement: Nested if()...else{}	02
7.	Implementation in C for conditional statement: if()...else if().....else{}	02
8.	Implementation in C for conditional statement using switch()....case{}	02
9.	Implementation in C for branching using goto	02
10.	Implement C program using while and do...while loop	06
11.	Implement C program using for loop for different problems	04
12.	Implement C program using loops to print different types of patterns	04
13.	Implement C program using for loop for series problems	04
14.	Implementation in C using 1D Array and 2D Array	08
15.	Write a C program to find length of a string without using in-built functions	02
16.	Implement String programs in C to copy, concatenate and compare given strings	04
17.	Implement a program to demonstrate user defined functions	02
18.	Implement a program to demonstrate recursive solution for factorial problem	04
19.	Implementation in C Structures and Unions	04

Text Book(s):

Title	Author/s	Publication
Programming in ANSI C	E. Balagurusamy	Tata McGraw Hill
Introduction to Computer Science	ITL Education Solutions Limited	Pearson Education

Reference Book(s):

Title	Author/s	Publication
Programming in C	Ashok Kamthane	Pearson
Let Us C	Yashavant P. Kanetkar	Tata McGraw Hill
Introduction to C Programming	Reema Thareja	Oxford Higher Education

Web Material Link(s):

- <https://www.javatpoint.com/c-programming-language-tutorial>
- <https://nptel.ac.in/courses/106105085/4>
- <https://fresh2refresh.com/c-programming/>

Course Evaluation:**Theory:**

- Continuous Evaluation consists of two tests each of 30 marks and 1 Hour of duration, which will be converted to 30 marks.
- Faculty evaluation consists of 10 marks as per the guidelines provided by the course coordinator.
- End Semester Examination consists of 60 marks.

Practical:

- Continuous Evaluation consists of the performance of practical, which will be evaluated out of 10 per each practical. At the end of the semester, the average of the entire practical will be converted to 20 marks.
- Internal viva consists of 20 marks.
- Practical performance/quiz/test consists of 30 marks.
- External viva consists of 30 marks.

Course Outcome(s):

After completion of the course, the student will be able to

- learn the fundamentals of programming.
- develop efficient programs with their own logic & capabilities.
- understand the syntax and semantics of the 'C' language.

Department of Computer Application

Course Code: SSIT1020
Course Name: Web Application Design
Prerequisite Course(s): --

Teaching & Examination Scheme:

Teaching Scheme (Hours/Week)				Examination Scheme (Marks)						
Theory	Practical	Tutorial	Credit	Theory		Practical		Tutorial		Total
				CE	ESE	CE	ESE	CE	ESE	
02	04	00	04	40	60	40	60	00	00	200

CE: Continuous Evaluation, ESE: End Semester Exam

Objective(s) of the Course:

To help learners to

- understand basic components of internet.
- learn basic web technologies such as HTML, JavaScript and CSS.
- develop basic knowledge of website designing.

Course Content:

Section I			
Module No.	Content	Hours	Weightage in %
1.	Introduction World Wide Web, Web Server, Website, Website design principles, planning the website, navigation	05	10
2.	HTML HTML Basics, HTML Attributes, HTML Headings, HTML Paragraphs, HTML Styles, HTML Text Formatting, HTML Links, HTML Images	05	20
3.	CSS CSS Syntax, CSS Colors, CSS Background, CSS Border, CSS Margin, CSS Box Model, CSS Text, CSS Fonts.	05	20
Section II			
Module No.	Content	Hours	Weightage in %
1.	JavaScript Syntax of JavaScript, external file, folder, URL, JavaScript Statements, JavaScript Variables, JavaScript Arithmetic, JavaScript String Concatenation, JavaScript Datatypes, JavaScript Functions, JavaScript different methods.	08	25
2.	Bootstrap CSS Introduction to Bootstrap CSS, Content Delivery Network, Bootstrap classes.	07	25

List of Practical:

Sr. No	Name of Practical	Hours
1.	Implement HTML Attributes, HTML Headings and HTML Paragraphs.	04
2.	Implement HTML Styles and HTML Text Formatting.	02
3.	Implement code to add Links in HTML.	02
4.	Implement code to add Images in HTML.	02
5.	Implement code to create different types of frame using HTML.	04
6.	Create a static web page using HTML to display P P Savani University information.	04
7.	Write JavaScript program to show the implementation of JavaScript inside head, body, external file, folder, URL.	02
8.	Write a program to perform arithmetic operations in JavaScript.	02
9.	Write a program to concatenate two Strings in JavaScript.	02
10.	Write a program to show the use of functions in JavaScript.	02
11.	Write a JavaScript function to check whether a string is blank or not.	04
12.	Write a program to show the use of math functions in JavaScript.	02
13.	Write a program to show the use of random function in JavaScript.	02
14.	Write a program to implement arrays in JavaScript.	04
15.	Write a program to implement CSS Colors, CSS Background, CSS Border and CSS Margin.	04
16.	Write a program to show the use of CSS Box Model.	04
17.	Write a program to implement CSS Text colors and size.	02
18.	Write a program to implement CSS Fonts styles.	02
19.	Write a program to implement Bootstrap classes.	02
20.	Create a website as a mini project in this subject.	08

Reference Book (s):

Title	Author/s	Publication
HTML Black Book	Steven Holzner	Dreamtech Press
JavaScript by Examples	Dani Akash	Packt
HTML & CSS: Design and Build Web Sites	Jon Duckett	Wiley
Step by Step Bootstrap 3: A Quick Guide to Responsive Web Development Using Bootstrap 3	Riwanto Megosinarso	Kindle Edition

Web Material Link(s):

- <https://www.w3schools.com/>
- <https://www.guru99.com/interactive-javascript-tutorials.html>
- <https://htmldog.com/guides/javascript/>

Course Evaluation:**Theory:**

- Continuous Evaluation consists of two tests each of 30 marks and 1 Hour of duration, which will be converted to 30 marks.
- Faculty evaluation consists of 10 marks as per the guidelines provided by the course coordinator.
- End Semester Examination consists of 60 marks.

Practical:

- Continuous Evaluation consists of the performance of practical, which will be evaluated out of 10 marks per each practical. At the end of the semester, the average of the entire practical will be converted to 20 marks.
- Internal viva consists of 20 marks.
- Practical performance/quiz/test consists of 30 marks.
- External viva consists of 30 marks.

Course Outcome(s):

After completion of the course, the student will be able to

- learn the fundamentals of Website designing.
- apply knowledge of HTML, CSS, and JavaScript to build static and dynamic websites.

Department of Computer Application

Course Code: SSIT1030

Course Name: Computer Applications

Prerequisite Course(s): --

Teaching & Examination Scheme:

Teaching Scheme (Hours/Week)				Examination Scheme (Marks)						
Theory	Practical	Tutorial	Credit	Theory		Practical		Tutorial		Total
				CE	ESE	CE	ESE	CE	ESE	
02	02	00	03	50	00	50	00	00	00	100

CE: Continuous Evaluation, ESE: End Semester Exam

Objective(s) of the Course:

To help the learners to

- understand various components of a computer.
- learn assembling and disassembling of computer hardware.
- learn and apply various office automation tools.

Course Content:

Section I			
Module No.	Content	Hours	Weightage in %
1.	Introduction to Computer and its Architecture Introduction and Characteristics, Generation, Classification, Applications, Introduction to various components of computer hardware, input / output peripherals, Central Processing Unit, Communication between various units, processor speed.	05	15
2.	Memory Introduction to Memory, Memory hierarchy, Primary memory and its type, Secondary memory, Classification of Secondary memory, Various secondary storage devices and their functioning, their merits and demerits, Concept of Main memory, Auxiliary Memory, Associative Memory, Cache Memory and Virtual Memory.	05	20
3.	Software Introduction of different types of software and its installations.	05	15
Section II			
Module No.	Content	Hours	Weightage in %
1.	Device Drivers, Dual booting and virtualization Installation of device drivers and other required software, need and method of backup, introduction to dual booting, its significance, concept of virtualization.	03	10
2.	Internet and Security Issues Computer network, topology, LAN, MAN, WAN, Advantages, Basic security issues: Computer viruses, malware, trojan horse etc.	03	15
3.	Various Processing Tools Various word processing tools: spreadsheet, presentation etc., various development tools: flow, animation, website development tools etc.	09	25

List of Practical:

Sr. No	Name of Practical	Hours
1.	Introduction to different hardware components of PC and Assembling of PC.	01
2.	Installation of OS and other Softwares. and understanding Dual Booting.	01
3.	Understanding LAN connections.	01
4.	Understanding how to create bootable pen drive.	01
5.	Working with browsers, internet, email, google drive etc.	01
6.	Working with Microsoft Word to create simple document and applying various types of font formatting features.	01

7.	Working with Microsoft Word to insert different objects like pictures, links, files and other objects in a document.	04
8.	Create a Flier using Microsoft Word.	02
9.	Working with Microsoft Excel to understand basic features like creating numerical database, applying simple formulas using =.	04
10.	Create a Grade sheet in Microsoft Excel.	02
11.	Create a Pivot table and Pivot chart for the given data: Order ID, Product, Category, Amount, Date and Country.	02
12.	Creating presentation template using Microsoft Presentation.	04
13.	Create a presentation including features like Master Slide, animation, rehearse time, custom animation and other suitable features	02
14.	Create a presentation for celebration of any event in your college.	02
15.	Draw a Flowchart for any C program using Flowchart Development Tool (For example: Edraw)	01
16.	Learning Virtualization using VMware	01

Text Book(s):

Title	Author/s	Publication
Structured Computer Organization	Andrew S. Tanenbaum	Pearson
Computer Network Fundamentals & Application	R. S. Rajesh, K. S. Easwarakumar, R. Balasubramanian	Vikas
Computer Science	ITL Education Solutions Limited	Pearson
Upgrading and repairing PCs	Scott Mueller	Pearson Education

Reference Book(s):

Title	Author/s	Publication
The Complete PC upgrade and Maintenance guide	Mark Minasi	Sybex
Computer Hardware: installation, interfacing, troubleshooting, and maintenance	James, K. L.	PHI Learning
Computer Architecture and Organization	John P. Hayes	McGraw Hill

Course Evaluation:

Theory:

- Continuous Evaluation consists of two tests of 30 marks and 1 hour of duration and average of the same will be converted to 30 marks.
- Faculty evaluation consists of 20 marks as per the guidelines provided by Course Coordinator.

Practical:

- Continuous Evaluation consists of the performance of practical, which will be evaluated out of 10 per each practical. At the end of the semester, the average of the entire practical will be converted to 25 marks.
- Internal viva and performance consists of 25 marks.

Course Outcome(s):

After completion of the course, the student will be able to

- design assemble and disassemble computer components.
- install various software and hardware.
- apply and design various office automation applications.

Centre for Skill Enhancement & Professional Development

Course Code: SEPD1030

Course Name: Communicative English

Prerequisite Course(s): --

Teaching & Examination Scheme:

Teaching Scheme (Hours/Week)				Examination Scheme (Marks)						
Theory	Practical	Tutorial	Credit	Theory		Practical		Tutorial		Total
				CE	ESE	CE	ESE	CE	ESE	
01	02	00	02	50	00	20	30	00	00	100

CE: Continuous Evaluation, ESE: End Semester Exam

Objective(s) of the Course:

To help learners to

- utilize their knowledge of grammar effectively for communicative purpose.
- learn language in authentic contexts.
- use English efficiently for routine.
- sharpen receptive skills for better comprehension by providing authentic resources.
- Enable themselves to express ideas clearly and accurately with fluent speaking & writing skills.
- gain confidence in speaking & writing English in an academic and professional context.
- analyze and improve pronunciation.

Course Content:

Module No.	Content	Hours	Weightage in %
1.	Foundational Grammar & Vocabulary <ul style="list-style-type: none"> • Functional use of pronoun, adjective, adverb, preposition, and conjunction • Narration of Past, Present and Future events • Vocabulary 	03	20
2.	Communicative English <ul style="list-style-type: none"> • Phrases to express likes/dislikes, request, inquiry, order, predict, complain, question, answer, invite (accepting/ denying) • Idioms & Proverbs 	04	30
3.	Receptive Skills <ul style="list-style-type: none"> • Introduction to Receptive Skills • Techniques/strategies of Reading • Techniques /strategies of Listening • Types of Listening Skills 	04	25
4.	Productive Skills <ul style="list-style-type: none"> • Speech modulation and its importance • Phonetics and Transcription for effective pronunciation • Speaking in various contexts • Cohesion and Coherence/ Building Paragraphs • Technical Writing (Application/ Letter/ Review/ Report) • E-mail etiquettes 	04	25

List of Practical:

Sr. No	Name of Practical	Hours
1.	Introduction to Foundational Grammar & Vocabulary – Ice Breaker	02
2.	Foundational Grammar – practice of pronoun, adjective, adverb, preposition, and conjunction with context	02
3.	Foundational Grammar – Narrating past, present and future events	02
4.	Communicative English – exposure to structures & phrases to express various language functions	02
5.	Communicative English – practice of using idioms, proverbs & phrases to communicate effectively	02
6.	Communicative English – Role play for requesting, inquiring, ordering, predicting, complaining, questioning, answering, inviting (accepting/denying)	02

7.	Communicative English – Role play for Requesting, inquiring, ordering, predicting, complaining, questioning, answering, inviting (accepting/denying)	02
8.	Practice of reading through authentic resources – Summarizing and Paraphrasing.	02
9.	Practice of reading through authentic resources – Skimming and Scanning	02
10.	Comprehensive Listening: Note Taking and Note Making	02
11.	Comprehensive Listening: Summarizing and Paraphrasing	02
12.	Speech for Fluency – phonetics	02
13.	Conversational Skills	02
14.	Leave Application/ Request Letter/Business Letter	02
15.	Notice/Memo/Agenda/ Minutes	02

Reference Book(s):

Title	Author/s	Publication
Communicative English	Dr. Anuradha, Dr. Minal Batra	Nirmal Publishing, First edition (2016)
Communicative Grammar of English	Geoffrey Leech, Jan Sartvik	Longman, 3 edition (6 January 2003)
Advanced Skills for Communication in English: Book I	V. Jaya Santhi	New century book house
Engineers' Guide to Technical Writing	Kenneth G. Budinski	ASM International, 2001
Communication Skills	Parul Popat & Kaushal Kotadia	Pearson, 2015
Practical Techniques to Develop Communication Skills	Parul Popat & Kaushal Kotadia	Pothi Prakashan, 2015

Web Material Link(s):

- https://www.researchgate.net/publication/301351158_Advanced_Skills_for_Communication_in_English_Book_I
- <https://anekawarnapendidikan.files.wordpress.com/2014/04/a-communicative-grammar-of-english-by-geoffrey-leech.pdf>
- <https://archive.org/details/FunctionalEnglish/page/n1>
- <https://www.talkenglish.com/grammar/grammar.aspx>
- http://toefl.uobabylon.edu.iq/papers/itp_2015_3158553.pdf
- <https://msu.edu/course/be/485/bewritingguideV2.0.pdf>
- <https://www.khanacademy.org>
- <http://www.kantakji.com/media/6494/t121.pdf>

Course Evaluation:

Theory:

- Continuous Evaluation consists of 50 marks. This carries two tests each of 30 marks and average of the same will be converted to 30 marks. There will be a submission consisting 10 marks as per the guidelines of course coordinator.
- Faculty Evaluation consists of 10 marks as per the guidelines provided by the Course Coordinator.

Practical/Tutorial:

- Continuous Evaluation consists of performance of Practical which should be evaluated out of 10 for each practical and average of the same will be converted to 10 marks.
- Internal viva consists of 10 marks.
- Practical performance/quiz/drawing/test consists of 15 marks during End Semester Exam.
- Viva/Oral performance consists of 15 marks during End Semester Exam.

Course Outcome(s):

After completion of the course, the student will be able to

- expand his/her vocabulary.
- use variety of sentence structures.
- use English effectively in academic and professional spectrum.
- enhance comprehensive listening.
- write English effectively with improved grammar and vocabulary.
- practice strategies for comprehensive reading in English.
- speak English fluently and efficiently.
- effectively use LSRW skills in English.

Department of Computer Application

Course Code: SSIT1910

Course Name: Seminar-I

Prerequisite Course(s): --

Teaching & Examination Scheme:

Teaching Scheme (Hours/Week)				Examination Scheme (Marks)						
Theory	Practical	Tutorial	Credit	Theory		Practical		Tutorial		Total
				CE	ESE	CE	ESE	CE	ESE	
01			01	00	00	50	00	00	00	50

CE: Continuous Evaluation, ESE: End Semester Exam

Objective(s) of the Course:

To help students to

- explore recent trends in market.
- create self- learning approach.

Outline of the Seminar:

Sr. No	Seminar Guidelines
1.	Selection of Title
2.	Literature Review
3.	Progress of study
4.	Presentation & Question-Answer

Detailed Guideline(s):

Sr. No	Content	Hours	Weightage in %
1.	Selection of Title Select a topic to study upon. After selecting the topic and proposed title, get approval from the concerned faculty.	02	10
2.	Literature Review Detail study on the topic by referring various resources.	04	20
3.	Progress of study The students must report the progress/status of their work every fortnight to their respective supervisor.	06	40
4.	Presentation & Question-Answer At the end of the semester, the student shall give a presentation of their work followed by a viva-voce examination.	03	30

Course Evaluation:

Sr. No.	Evaluation criteria	Marks
1.	Selection of the topic related field (Within first 30 Days of commencement of semester)	20
2.	Initial Presentation of the topic (Within 31 to 40 Days of commencement of semester)	20
3.	An actual study carried out (Within 41 to 60 Days of commencement of semester)	20
4.	Final Presentation & Question-Answer session	40
Grand Total:		100

The entire evaluation will be converted equivalent to 50 Marks.

Course Outcome(s):

After completion of the course, the student will be able to:

- develop self-exploring skills.
- apply knowledge gained in the real time problem solving.

Department of Science & Humanities

Course Code: SESH1061

Course Name: Discrete Mathematics for Computer Applications

Prerequisite Course(s): Mathematics for Computer Applications (SESH1040)

Teaching & Examination Scheme:

Teaching Scheme (Hours/Week)				Examination Scheme (Marks)						
Theory	Practical	Tutorial	Credit	Theory		Practical		Tutorial		Total
				CE	ESE	CE	ESE	CE	ESE	
03	00	02	05	40	60	00	00	50	00	150

CE: Continuous Evaluation, ESE: End Semester Exam

Objective(s) of the Course:

To help learners to

- to extend concepts of set theory by study of lattice and group.
- to apply knowledge of discrete mathematics for problem solving skills necessary to succeed in design and analysis of algorithms, database management, software engineering and computer networks.

Course Content:

Section I			
Module No.	Content	Hours	Weightage in %
1.	Matrix Algebra Introduction, Types of Matrices, Operations of Matrices, Adjoint Matrices, Solution of System of Equations by Matrix Inversion Method, Applications of Matrix.	07	18
2.	Lattices Definition & properties of Lattice, Lattices as Algebraic System, Sublattices, Types of lattices, Distributive lattices, Modular lattices, Complemented lattices, Bounded lattices, Complete lattices.	07	16
3.	Group Theory Binary operations, Properties of Group, Groupoid, semigroup & monoid, Abelian group, Subgroup, Cosets, Normal subgroup, Lagrange's theorem, Cyclic group, Permutation group, Homomorphism & Isomorphism of groups.	08	16
Section II			
Module No.	Content	Hours	Weightage in %
1.	Tree Introduction to trees, Properties of tree, Distance and centre in tree, Rooted tree, Binary tree, Tree Traversal.	07	14
2.	Spanning Tree Introduction to Spanning tree, DFS, BFS Algorithm, Minimum Spanning Tree, Prim's and Kruskal's Algorithm, Application of Spanning Trees.	07	18
3.	Graph Theory Formation of graph, Basic terminologies of directed and undirected graphs, Matrix representation of graphs (Adjacency Matrix and Incidence Matrix), Isomorphism, Walk, Path, Circuit, Euler Path and Circuit, Hamilton Path and Circuit, Shortest path problem, Dijkstra's Algorithm.	09	18

List of Tutorial(s):

Sr. No.	Name of Tutorial	Hours
1.	Matrix Algebra-1	02
2.	Matrix Algebra-2	04
3.	Lattices	04
4.	Group Theory -1	02
5.	Group Theory -2	04
6.	Tree	04
7.	Spanning Tree-1	02
8.	Spanning Tree-2	02
9.	Graph Theory-1	04
10.	Graph Theory-2	02

Text Book (s):

Title	Author/s	Publication
Discrete Mathematics	T. Veerarajan	Tata McGraw Hill.

Reference Book(s):

Title	Author/s	Publication
Discrete Mathematics and its Applications	Kenneth H. Rosen	Tata McGraw Hill
Discrete Mathematical Structures with Applications to Computer Science	J. P. Tremblay R. Manohar	Tata McGraw Hill

Web Material Link(s):

- <http://nptel.ac.in/courses/106106094/>
- <http://nptel.ac.in/downloads/111104026/>

Course Evaluation:**Theory:**

- Continuous Evaluation consists of two tests each of 30 marks and 1 Hour of duration, which will be converted to 30 marks.
- Faculty evaluation consists of 10 marks as per the guidelines provided by the course coordinator.
- End Semester Examination consists of 60 marks.

Tutorial:

- Continuous evaluation consists of performance of tutorial which will be evaluated out of 10 marks for each tutorial and average of the same will be converted to 30 marks.
- MCQ examination/Application based small project report writing of 10 marks.
- Internal Viva consists of 10 marks.

Course Outcome(s):

After completion of the course, the students will be able to

- determine need of matrices in image processing, computer graphics and cryptography.
- apply knowledge of group theory for data encryption.
- design and use foundational concepts of notations and results of graph theory in information storage and retrieval.
- apply the basic concepts of spanning tree algorithm namely DFA, BFS, prim's and Kruskal's in design of networks.

Department of Computer Application

Course Code: SSIT1040

Course Name: Data Structures

Prerequisite Course(s): --

Teaching & Examination Scheme:

Teaching Scheme (Hours/Week)				Examination Scheme (Marks)						
Theory	Practical	Tutorial	Credit	Theory		Practical		Tutorial		Total
				CE	ESE	CE	ESE	CE	ESE	
03	02	00	04	40	60	20	30	00	00	150

CE: Continuous Evaluation, ESE: End Semester Exam

Objective(s) of the Course:

To help learners to

- understand linear and non-linear data structures and its applications.
- analyze various searching and sorting algorithms and its impacts on data structures.
- develop logic building and problem-solving skills.

Course Content:

Section I			
Module No.	Content	Hours	Weightage in %
1.	Introduction Object and Instance, Object Oriented Concepts, Data types, Types of Data Structure, Abstract Data Types.	04	10
2.	Array Array Representation, Array as an Abstract Data Type, Programming Array in C, Sparse Matrices, Sparse Representations and its Advantages, Row-measure Order and Column-measure Order representation.	05	10
3.	Searching and Sorting Linear Search, Binary Search, Bubble Sort, Insertion Sort, Selection Sort, Radix sort.	05	10
4.	Stack and Queue Stack Definition and concepts, Operations on stack, Programming Stack using Array in C, Prefix and Postfix Notations and their Compilation, Recursion, Tower of Hanoi, Representation of Queue, Operation on Queue, Programming Queue using Array in C. Types of Queue, Applications of Stack & Queue.	08	20
Section II			
Module No.	Content	Hours	Weightage in %
1.	Linked List-Part I Dynamic Memory Allocation, Structure in C, Singly Linked List, Doubly Linked List, circular linked list.	06	14
2.	Linked List-II and Applications of Linked List Linked implementation of Stack, Linked implementation of Queue, Applications of Linked List.	06	14
3.	Trees Tree Definition, concepts and Representation. Binary Tree, Binary Tree Traversals, conversion from general to binary Tree. Threaded Binary Tree, Heap, Binary Search Tree, 2-3 Tree, AVL tree.	07	15
4.	Graphs Graph Definition, Concepts and Representation, Types of Graphs	04	07

List of Practical:

Sr No	Name of Practical	Hours
1.	Introduction to Dynamic Memory Allocation	02
2.	Revision of Structures in C	02
3.	Write a program to perform Insertion sort.	02
4.	Write a program to perform Selection sort.	02
5.	Write a program to perform Insertion sort.	02
6.	Write a program to perform Bubble sort.	02
7.	Write a program to perform Linear Search sort.	02
8.	Write a program to perform Binary Search sort.	02
9.	Write a program to implement stack and perform push, pop operation.	02
10.	Write a program to perform the following operations in linear queue – Addition, Deletion and Traversing.	02
11.	Write a program to perform the following operations in circular queue – Addition, Deletion, and Traversing.	02
12.	Write a program to perform the following operations in singly linked list – Creation, Insertion, and Deletion.	02
13.	Write a program to perform the following operations in doubly linked list – Creation, Insertion, and Deletion.	02
14.	Write a program to create a binary tree and perform – Insertion, Deletion, and Traversal.	02
15.	Write a program to create a binary search tree and perform – Insertion, Deletion, and Traversal.	02

Text Book (s):

Title	Author/s	Publication
An Introduction to Data Structures with Applications	Jean-Paul Tremblay, Paul G. Sorenson	Tata McGraw Hill

Reference Book(s):

Title	Author/s	Publication
Data Structures using C & C++	Tanenbaum	Prentice-Hall
Fundamentals of Computer Algorithms	E. Horowitz, Sahni, and S. Rajsekaran	Galgotia Publication
Data Structures: A Pseudo-code approach with C	Gilberg&Forouzan	Thomson Learning
Data & File Structure	Rohit Khurana	Vikas Publication
C & Data Structures	P S Deshpande, O. G. Kakde	CharlesRiverMedia

Web Material Link(s):

- <https://www.coursera.org/learn/data-structures>
- <https://nptel.ac.in/courses/106102064/>
- <https://nptel.ac.in/courses/106106127/>

Course Evaluation:**Theory:**

- Continuous Evaluation consists of two tests each of 30 marks and 1 Hour of duration, which will be converted to 30 marks.
- Faculty evaluation consists of 10 marks as per the guidelines provided by the course coordinator.
- End Semester Examination consists of 60 marks.

Practical:

- Continuous Evaluation consists of the performance of practical, which will be evaluated out of 10 per each practical. At the end of the semester, the average of the entire practical will be converted to 10 marks.
- Internal viva consists of 10 marks.
- Practical performance/quiz/test consists of 15 marks.
- External viva consists of 15 marks.

Course Outcome(s):

After completion of the course, the student will be able to

- differentiate primitive and non-primitive structures.
- design and apply appropriate data structures for solving computing problems.
- implement different data structures.
- apply sorting and searching algorithms to the small and large data sets.
- analyze algorithms for specific problems.

Department of Computer Application

Course Code: SSIT1050

Course Name: Database Management Systems

Prerequisite Course(s): --

Teaching & Examination Scheme:

Teaching Scheme (Hours/Week)				Examination Scheme (Marks)						
Theory	Practical	Tutorial	Credit	Theory		Practical		Tutorial		Total
				CE	ESE	CE	ESE	CE	ESE	
03	04	00	05	40	60	40	60	00	00	200

CE: Continuous Evaluation, ESE: End Semester Exam

Objective(s) of the Course:

To help learners to

- learn the basic concept of database design and development of database management system.
- understand Query processing of SQL.
- understand importance of back end design and Relational Database Management System (RDBMS).

Course Content:

Section I			
Module No.	Content	Hours	Weightage in %
1.	Introduction File Organization, Comparison of File with DBMS, Application of DBMS, Purpose of DBMS, Views of data - level of abstraction, Data Independence, Database Architecture, Database Users & Administrators.	04	10
2.	Relational Model Structure of relational databases, Domains, Relations, Relational algebra- operators and syntax, Relational algebra queries.	04	10
3.	SQL Concepts Basics of SQL, DDL,DML,DCL, Structure: creation, alteration, Defining constraints: Primary key, Foreign key, Unique key, Not null, check, IN operator, Aggregate functions , Built-in functions: numeric, date, string functions, set operations, Sub queries, correlated sub-queries: Join, Exist, Any, All, view and its types. Transaction Control Commands- Commit, Rollback, Save point.	10	22
4.	Query Processing Overview, Measures of query cost, Selection operation, Sorting, join, Evaluation of expressions.	04	08

Section II			
Module No.	Content	Hours	Weightage in %
1.	Entity Relational Model Entity-Relationship Model: Basic concepts, Design process Constraints, Keys, Design issues, E-R diagrams, Weak entity sets, extended E-R features- Generalization, Specialization, Aggregation, Reduction to E-R Database Schema.	08	20
2.	Database Design Concepts Functional Dependency, Definition, Trivial and non-trivial FD, Closure of FD set, closure of attributes, Irreducible set of FD, Normalization: 1NF, 2NF, 3NF, Decomposition using FD, Dependency preservation, BCNF, Multivalued dependency, 4NF Join Dependency and 5NF, RAID Concepts.	07	14
3.	Transaction Management Transaction concepts, Properties of Transactions, Serializability of Transactions, Testing for serializability, system recovery, Two- Phase Commit protocol, Recovery and Atomicity, Log-based recovery, Concurrent executions of transactions and related problems, Locking mechanisms, Solution to Concurrency Related Problems, Deadlock, Two phase locking protocol.	05	10
4.	PL/SQL Concepts Cursors, Stored Procedures, Stored Function, Database Triggers, Indices.	03	06

List of Practical:

Sr. No	Name of Practical	Hours
1.	Introduction to DBMS, SQL and SQL tools.	02
2.	Implementation of a client-server architecture using tightVNC Server and Client software (remote access of a server by clients)	02
3.	Introduction to Data Dictionary concepts.	02
4.	Create all the master tables using Data Definition Language Commands like Create and Describe.	02
5.	Implement the use of alter table command.	02
6.	Introduction to Transaction Control Commands like Commit, Rollback and Savepoint.	02
7.	Use insert command to add data into created tables.	02
8.	Solve queries using update command.	02
9.	Implement SQL queries based on update and delete command.	02
10.	Write SQL queries to solve problems with use of select command.	02
11.	Generate different reports using select command.	02
12.	Introduction to SQL functions.	02
13.	Write the required SQL scripts to implement the listed queries, which require the usage of numerous SQL functions.	02
14.	Introduction to group functions and demonstration of their usage.	02
15.	Implement queries based on group by and having clause.	02
16.	Execution of queries based on natural and inner Joins.	02
17.	Implement SQL queries based on outer join and self-join.	02
18.	Write SQL queries based on group function and join.	02
19.	Introduction to sub-queries and demonstration of their usage.	02
20.	Write SQL queries based on concept of single row sub-queries.	02
21.	Write SQL queries based on concept of multiple row sub-queries.	02
22.	Write SQL scripts to generate desired reports using group by, join and sub-queries.	02
23.	Write SQL script to solve the questions based on all SQL concepts.	02
24.	Write the required SQL scripts to implement all the listed queries using Data Control Commands like Grant and Revoke.	02
25.	Introduction to different objects in SQL and create views based on given scenarios.	02
26.	Write the required SQL script to implement the given triggers.	02
27.	Write the required SQL script to implement the given triggers.	02
28.	Write the required SQL script to implement the given functions and procedures using PL/SQL block scripts.	02
29.	Write the required SQL scripts to implement the given cursors.	02
30.	Submission of DBMS Mini Project Design.	02

Text Book(s):

Title	Author/s	Publication
Database System Concept	Abraham Silberschatz, Henry F. Korth, S. Sudarshan	McGraw Hill
PL/SQL–The Programming Language of Oracle	Ivan Bayross	BPB Publications

Reference Book(s):

Title	Author/s	Publication
An Introduction to Database System	C J Date	Addition-Wesley
Fundamental of Database System	R. Elmasri and S.B Navathe	Benjamin/Cumming
Oracle: The Complete Reference	George Koch, Kevin Loney	TMH /oracle press

Web Material Link(s):

- <https://www.tutorialcup.com/dbms>
- <https://www.geeksforgeeks.org/dbms/>
- https://onlinecourses.nptel.ac.in/noc18_cs15

Course Evaluation:**Theory:**

- Continuous Evaluation consists of two tests each of 30 marks and 1 Hour of duration, which will be converted to 30 marks.
- Faculty evaluation consists of 10 marks as per the guidelines provided by the course coordinator.
- End Semester Examination consists of 60 marks.

Practical:

- Continuous Evaluation consists of the performance of practical, which will be evaluated out of 10 per each practical. At the end of the semester, the average of the entire practical will be converted to 20 marks.
- Internal viva consists of 20 marks.
- Practical performance/quiz/test consists of 30 marks.
- External viva consists of 30 marks.

Course Outcome(s):

After completion of the course, the student will be able to

- convert physical, data, conceptual data into relational databases.
- utilize database design for the development of software projects.
- apply various data base constraints on relational databases.

Department of Computer Application

Course Code: SSIT1061

Course Name: Web Application Development

Prerequisite Course(s): Web Application Design (SSIT1020)

Teaching & Examination Scheme:

Teaching Scheme (Hours/Week)				Examination Scheme (Marks)						
Theory	Practical	Tutorial	Credit	Theory		Practical		Tutorial		Total
				CE	ESE	CE	ESE	CE	ESE	
01	02	00	02	00	00	50	00	00	00	50

CE: Continuous Evaluation, ESE: End Semester Exam

Objective(s) of the Course:

To help learners to

- gain the PHP programming skills needed to successfully build interactive, data-driven sites.
- understand how server-side programming works on the web.
- connect to any modern database and perform hands on practice with a MySQL database to create database-driven HTML forms and reports.

Course Content:

SECTION I			
Module No.	Content	Hours	Weightage in %
1.	Introduction to PHP Loosely typed language vs. Strongly Typed Language What is PHP? - Basic PHP Syntax, Comments in PHP, Error Management	01	05
2.	Constants, Variables and data Types: Keyword, Constants and Variables, Data types - Declaration and initialization, basic input and output operations, symbolic constants	01	10
3.	Operators and Expression Arithmetic Operator, Increment and Decrement Operator, Assignment Operator, String Operator	02	10
4.	Conditional statement and branching: Decision Making & branching: Decision making with If & If ... Else statements, If - Else statements (Nested Ladder) and Looping: The while statement, The break statement & The Do. While loop, The FOR loop, FOREACH, break and continue	03	25
SECTION II			
Module No.	Content	Hours	Weightage in %
1.	User-Defined Functions prototypes, definition of function, parameters, parameter passing, calling a function, recursive function, in-built functions	01	10
2.	Arrays and Strings: Introduction to array, Numeric Array, Associative Array and Multi-dimensional Array, in-built string functions	02	10
3.	PHP Forms \$_GET and \$_POST function	02	10
4.	Data-base connectivity in PHP	03	20

List of Practical:

Sr. No.	Name of Practical	Hours
1.	Hello World Example, finding errors present in the program, Insert Comments in Program, PHP Variable Example, Global and locally-scoped variables – Example, Constant string Example, PHP Example to calculate the area of the circle	2
2.	Static Keyword in PHP – Example, ECHO and PRINT statements in PHP – Example, strlen() and strpos() functions – Example	2
3.	Example on Arithmetic Operators, Increment and Decrement Operators, Assignment Operators and String Operators	2
4.	Example on Conditional Statements (if, if...else Statement, if...elseif...else and Switch)	2
5.	Example on branching Statements (For loop, Declaring multiple variables in for loop, While loop and Do While loop), Example on break and Continue Statement	2
6.	User Defined Function Example (How to Adding parameters and How to Return values?). Date () and time() function in PHP – Example	2
7.	Array in PHP Numeric array in PHP – Example Associative array in PHP – Example Loop through an Associative array Multidimensional array in PHP – Example	4
8.	PHP Forms The \$_GET Function - Example The \$_POST Function – Example PHP Global Variables – Superglobals \$_GLOBALS – Example \$_SERVER – Example	4
9.	How to connect to MYSQL database using PHP -The functions used to connect web form to the MYSQL database -Display the data from MYSQL database in web form -Insert the data into MYSQL database using web form -Update the data present in MYSQL database using web form -Delete the data from MYSQL database using web form -Using Cookies with PHP	6
10.	A simple GUI based web-application development using PHP -Finalization of topic -Analysis of problem -Design of GUI -PHP Implementation -Testing -Final Evaluation	4

Text Book(s):

Title	Author/s	Publication
Learning PHP, MySQL	Michele Davis, Jon Phillips	'O' riley Press

Reference Book(s):

Title	Author/s	Publication
The Complete Reference PHP	Steven Holzner	TMH
Web Technologies Black Book	Kogent Learning Solutions Inc.	Dreamtech PRESS

Web Material Link(s):

- <https://www.w3schools.com/php/>
- http://www.nptelvideos.com/php/php_video_tutorials.php

Course Evaluation:**Practical:**

- Continuous Evaluation consists of the performance of practical, which will be evaluated out of 10 per each practical. At the end of the semester, the average of the entire practical will be converted to 20 marks.
- Submission of project developed as per the guidelines of the course coordinator at the end of the semester consists of 30 marks.

Course Outcome(s):

After completion of the course, the student will be able to

- understand structure of open source technologies.
- learn advance web technology concepts.
- prepare industry ready professionals in the field of web technology.

Department of Computer Application

Course Code: SSIT1071

Course Name: Object Oriented Programming with Java

Prerequisite Course(s): Introduction to Computer Programming (SSIT1010)

Teaching & Examination Scheme:

Teaching Scheme (Hours/Week)				Examination Scheme (Marks)						
Theory	Practical	Tutorial	Credit	Theory		Practical		Tutorial		Total
				CE	ESE	CE	ESE	CE	ESE	
03	04	00	05	40	60	40	60	00	00	200

CE: Continuous Evaluation, ESE: End Semester Exam

Objective(s) of the Course:

To help learners to

- understand basics of object-oriented programming.
- identify appropriate approach to computational problems.
- develop logic building and problem-solving skills.

Course Content:

Section I			
Module No.	Content	Hours	Weightage in %
1.	Introduction Programming language Types and Paradigms, Flavors of Java, Java Designing Goal, Features of Java Language, JVM –The heart of Java, Java’s Magic Byte code.	03	05
2.	Object Oriented Programming Fundamentals Class Fundamentals, Object and Object reference, Object Life time and Garbage Collection, Constructor and initialization code block, Access Control, Modifiers, Nested class, Inner Class, Anonymous Classes, Abstract Class and Interfaces, Defining Methods, Method Overloading, Dealing with Static Members, Use of “this” reference, Use of Modifiers with Classes & Methods, Generic Class Types.	06	15
3.	Java Environment and Data Types The Java Environment: Java Program Development, Java Source File Structure, Compilation, Executions, Identifiers, Keywords, Literals, Comments, Primitive Data-types, Operators.	05	10
4.	Class and Inheritance Use and Benefits of Inheritance in OOP, Types of Inheritance in Java, Inheriting Data Members and Methods, Role of Constructors in inheritance, Overriding Super Class Methods, Use of “super”, Polymorphism in inheritance, Type Compatibility and Conversion.	07	15
5.	Java Packages Organizing Classes and Interfaces in Packages, Package as Access Protection, Defining Package, CLASSPATH Setting for Packages, Making JAR Files for Library Packages, Import and Static Import, Naming Convention for Packages.	02	05
Section II			
Module No.	Content	Hours	Weightage in %
1.	Array and String Concepts Defining an Array, Initializing & Accessing Array, Multi –Dimensional Array, Operation on String, Using Collection Bases Loop for String, tokenizing a String, Creating Strings using String Buffer.	04	10
2.	Exception Handling The Idea behind Exception, Exceptions & Errors, Types of Exception, Control Flow in Exceptions, JVM reaction to Exceptions, Use of try, catch, finally, throw, throws in Exception Handling, In-built and User Defined Exceptions, Checked and Un-Checked Exceptions.	05	10

3.	Thread Understanding Threads, Needs of Multi-Threaded Programming, Thread Life-Cycle, Thread Priorities, Synchronizing Threads, Inter Communication of Threads.	06	15
4.	Applet Applet & Application, Applet Architecture, Parameters to Applet.	03	5
5.	Input Output Operations in Java Streams and the new I/O Capabilities, Understanding Streams, The Classes for Input and Output, The Standard Streams, Working with File Object, File I/O Basics, Reading and Writing to Files, Buffer and Buffer Management, Read/Write Operations with File, Channel, Serializing Objects.	05	10

List of Practical:

Sr. No	Name of Practical	Hours
1.	Introduction to Java Environment and Netbeans.	02
2.	Implementation of java programs with classes and objects.	04
3.	Implement java programs to showing usage of overloading and overriding.	02
4.	Implementation of java programs to demonstrate different access specifiers.	04
5.	Implementation of java programs using concept of inner classes.	04
6.	Implementation of java programs for variables, data types, operator.	04
7.	Implement of java programs for inheritance (single, multilevel, hierarchical).	04
8.	Implementation of java programs to demonstrate use of super keyword.	02
9.	Implementation of java programs for anonymous and abstract classes.	02
10.	Implementation of java programs for Interface.	02
11.	Implementation of java programs to demonstrate java packages.	02
12.	Implementation of java programs to use arrays and string.	06
13.	Implementation of java programs for exception handling using all keywords.	04
14.	Implementation of java programs to demonstrate life cycle of thread.	02
15.	Implementation of java programs for the concepts of thread priority, synchronization, inter- thread communication.	06
16.	Implementation of Applets, AWT and Web Servers.	06
17.	Implementation of file handling operations.	04

Text Book(s):

Title	Author/s	Publication
Core Java Volume I – Fundamentals	Cay Horstmann and Gray Cornell	Pearson

Reference Book(s):

Title	Author/s	Publication
Thinking in Java	Bruce Eckel	Pearson
Learning Java	Patrick Niemeyer and Jonathan Knudsen	O'reilly Media

Web Material Link(s):

- <https://www.programiz.com/java-programming>
- <https://www.tutorialspoint.com/java>
- <https://www.geeksforgeeks.org/java-programming-basics/>
- https://nptel.ac.in/noc/individual_course.php?id=noc19-cs07

Course Evaluation:**Theory:**

- Continuous Evaluation consists of two tests each of 30 marks and 1 Hour of duration, which will be converted to 30 marks.
- Faculty evaluation consists of 10 marks as per the guidelines provided by the course coordinator.
- End Semester Examination consists of 60 marks.

Practical:

- Continuous Evaluation consists of the performance of practical, which will be evaluated out of 10 per each practical. At the end of the semester, the average of the entire practical will be converted to 20 marks.
- Internal viva consists of 20 marks.
- Practical performance/quiz/test consists of 30 marks.
- External viva consists of 30 marks.

Course Outcome(s):

After completion of the course, the student will be able to

- learn the fundamentals of object-oriented programming.
- develop efficient programs with their own logic & capabilities.
- understand the syntax and semantics of the 'Java' language.

Centre for Skill Enhancement & Professional Development

Course Code: SEPD1020

Course Name: Communication Skills

Prerequisite Course(s): --

Teaching & Examination Scheme:

Teaching Scheme (Hours/Week)				Examination Scheme (Marks)						
Theory	Practical	Tutorial	Credit	Theory		Practical		Tutorial		Total
				CE	ESE	CE	ESE	CE	ESE	
01	02	00	02	50	00	20	30	00	00	100

CE: Continuous Evaluation, ESE: End Semester Exam

Objective(s) of the Course:

To help learners to

- hone basic communication skills by exposing them to the key communication techniques.
- improvise comprehension and expressional skills which are required for personal, social, academic and professional environment.
- sharpen communication skills with reference to organizational structure.
- show the importance of teamwork and give practice in group communication with reference to group dynamics.

Course Content:

Module No.	Content	Hours	Weightage in %
1	Introduction to Communication Skills <ul style="list-style-type: none"> • Concept and Process of Communication • Types of Communication • Principles of Effective Communication • Barriers to Communication 	05	33
2	Interpersonal Organizational Communication <ul style="list-style-type: none"> • Styles and Flows of Communication • Essentials of Organizational Communication • Kinesics, Proxemics and Chronemics 	03	20
3	Team/ Group Dynamics and Leadership <ul style="list-style-type: none"> • Types of Groups and Essentials of Group Work and Networking • Concept and Types of Leadership • Traits of an Effective Leader 	03	20
4	Presentation Skills <ul style="list-style-type: none"> • Modes, Means and Purposes of Presentation • Audience Analysis and Content Organization • Visual aids and Nuances of Delivery • Non-Verbal Cues for Effective Presentation 	04	27

List of Practical:

Sr. No	Name of Practical	Hours
1.	Introduction to Communication: An Ice Breaker	02
2.	Verbal/ Non-Verbal Communication Pros and Cons	02
3.	Principles of Communication	02
4.	Barriers to Communication	02
5.	Interpersonal Communication	02
6.	Organizational Communication	02
7.	Assertive Vs Aggressive Communication	02
8.	Group Dynamics: A Decision-Making Activity	02
9.	Group Dynamics Working together to achieve organizational vision	02
10.	Difference between Group Discussion and Debate	02
11.	Leadership: Holding a diverse Group Together	02
12.	Presentation Skills; Video Session	02
13.	Presentations by the Students: Self-Peer-teacher assessment	02
14.	Presentations by the Students: Self-Peer-teacher assessment	02
15.	Presentations by the Students: Self-Peer-teacher assessment	02

Text Book(s):

Title	Author/s	Publication
Practical Techniques to Develop Communication Skills	Parul Popat & Kaushal Kotadia	Pothi Prakashan, 2015

Reference Book(s):

Title	Author/s	Publication
Communication Skills	Parul Popat & Kaushal Kotadia	Pearson, 2015
Communication Skills, 2 nd Edition	Sanjay Kumar, PushpLata	Oxford University Press, 2015
Communication Skills for Engineers	Sunita Mishra	Pearson, 2011
Effective Interpersonal and Team Communication Skills for Engineers	Clifford Whitcomb, Leslie E. Whitcomb	John Wiley & Sons, 2012

Web Material Link(s):

- <http://www.mindtools.com/page8.html>
- http://techpreparation.com/soft-skills.htm?gclid=CJf34fyQv5wCFdMtpAodjX_tA
- <http://lorien.ncl.ac.uk/ming/Dept/Tips/present/comms.htm>

Course Evaluation:**Theory:**

- Continuous Evaluation consists of 50 marks. This carries two tests each of 30 marks and average of the same will be converted to 30 marks. There will be a submission consisting 10 marks as per the guidelines of course coordinator.
- Faculty Evaluation consists of 10 marks as per the guidelines provided by the Course Coordinator.

Practical:

- Continuous Evaluation consists of Performance of Practical which should be evaluated out of 10 for each practical.
- Internal viva consists of 10 marks.
- Practical performance/quiz/drawing/test of 15 marks.
- Viva/Oral performance of 15 marks during End Semester Exam.

Course Outcome(s):

After completion of the course, the student will be able to

- follow the process of communication and its components in organizational context.
- express themselves and to participate in the classroom discussions and other such academic activities.
- comprehend whatever they receive from Informal Interactions with the family, teachers and friends; and from Formal Communications taking Place in Lectures, Laboratories and the like.
- enhance the teamwork and collaborative attitude.
- communicate effectively using suitable styles and techniques.
- able to participate in the group discussions and other such academic or academic support activities.
- use language effectively with reference to communication in groups and group behavior.

P P Savani University
School of Sciences

Department of Computer Application

Course Code: SSIT1920

Course Name: Seminar-II

Prerequisite Course(s): --

Teaching & Examination Scheme:

Teaching Scheme (Hours/Week)				Examination Scheme (Marks)						
Theory	Practical	Tutorial	Credit	Theory		Practical		Tutorial		Total
				CE	ESE	CE	ESE	CE	ESE	
02			02	00	00	50	00	00	00	50

CE: Continuous Evaluation, ESE: End Semester Exam

Objective(s) of the Course:

To help learners to

- develop higher order thinking skills.
- update their knowledge to the latest happening in science and technologies.

Outline of the Seminar:

Sr. No.	Seminar Guidelines
1.	Selection of Title
2.	Literature Review
3.	Progress of study
4.	Report Writing
5.	Presentation & Question-Answer

Detailed Guideline(s):

Sr. No.	Content	Hours	Weightage in %
1.	Selection of Title Select a topic to study upon. After selecting the topic and proposed title, get approval from the concerned faculty.	03	10
2.	Literature Review Detail study on the topic by referring various resources.	06	10
3.	Progress of study The students must report the progress/status of their work every fortnight to their respective supervisor.	12	40
4.	Report Writing The report must be prepared as per suggested guidelines consisting of Preamble, Objectives, Scope, Introduction, Conclusions, Recommendations and Annexure.	06	10
5.	Presentation & Question-Answer At the end of the semester, the student shall give a presentation of their work followed by a viva-voce examination.	03	30

Course Evaluation:

Sr. No.	Evaluation criteria	Marks
1.	Selection of the topic related field (Within first 30 Days of commencement of semester).	20
2.	Initial Presentation of the topic (Within 31 to 40 Days of commencement of semester).	20
3.	An actual study carried out (Within 41 to 60 Days of commencement of semester).	20
4.	Report writing.	20
5.	Final Presentation & Question-Answer session.	20
Grand Total:		100

The entire evaluation will be converted equivalent to 50 Marks.

Course Outcome(s):

After completion of the course, the student will be able to

- learn the technological advancements in the field of Science and Technology.
- apply knowledge gained in the field.

Class Time Table



P P Savani School of Sciences

CLASS: C-006

Time Table

Sem B.Sc (IT) 1

Academic Year

2019-20

W.E.F. : 29/07/2019

Slct	Time/Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	08:00 to 08:55	SEPD1030	SSIT1010	SSIT1020	SSIT1010	SSIT1030	
2	09:50 to 10:45	ARP C-201-C	ANP C-201-C	NKS C-201-C	ANP C-201-C	DVT C-201-C	
3	10:45 to 11:40	SSIT1030	SSIT1020	SSIT1030	SEPD1030	SESH1040	
4	11:40 to 12:35	DVT C-006	NKS C-006	DVT C-006	ARP C-006	RND C-006	
5	12:35 to 01:30	SESH1040	SSIT1010	SSIT1010	SSIT1010	SSIT1020	
6	01:30 to 02:25	RND C-006	ANP C-006	ANP C-006	ANP C-006	NKS C-006	
7	02:25 to 03:20	SPORTS/LIBRARY/CLUB ACTIVITY	SESH1040	SSIT1910	SPORTS/LIBRARY/CLUB ACTIVITY	SPORTS/LIBRARY/CLUB ACTIVITY	
8		SESH1040-A	SSIT1020	Problem Solving Session	Problem Solving Session	SESH1040-B	
		RND C-006	NKS C-201-C			RND C-006	

Course Details:	SEPD1030 : Communicative English SESH1040 : Mathematics for Computer Applications SSIT1010 : Introduction to Computer Programming SSIT1020 : Web Application Design	SSIT1030 : Computer Applications SSIT1910 : Seminar-I
Faculty:	ARP RND NKS ANP DVT	Mr. Ankit Patel Mr. Rav Dhandhukya Ms. Neha Shah Ms. Aarti Patel Ms. Dhruvi Tailor

Director/Dean

Course Coursecoordinators & Details

Course Code	Course Name	Course Coordinator
SESH1040	Mathematics for Computer Applications	Mr. Ravi Dhandhukiya +91 96621 86362 ravi.dhandhukiya@ppsua.ac.in
SSIT1010	Introduction to Computer Programming	Ms. Aarti Patel +91 84859 21456 aarti.patel@ppsua.ac.in
SSIT1020	Web Application Design	Ms. Neha Shah +91 98241 84008 neha.shah@ppsua.ac.in
SEPD1030	Communicative English	Mr. Ankit Patel aashna.verma@ppsua.ac.in

Women's Development Cell

Objective:

Women's Development Cell shall create opportunities and environs to facilitate women to reach to the peak of their naturally endowed potential, and thereby enriching organizational and social life.

Committee Constitution & Nominee

Constitution	Name of Member	Contact No
Faculty Representative (Female)	Ms. Nafisa Shaikh	7621875977
Representative of Non-Teaching Staff	Ms. Chandni Patel Counsellor, P P Savani University	9998770219

Objectives of Women Development Cell

- To promote intellectual and cultural activities for overall personality development of students.
- To enhance the self-esteem and self-confidence of women student, faculty and staff in the college.
- To create social awareness about the problems of women and in particular regarding gender discrimination.
- To develop critical thinking ability of girl students such that it enhances decision-making ability.
- To provide proper guidance to girl students about physical appearance, behavior, physical and mental strength.
- To create legal awareness on specific issues concerning girl students and women.
- To enable women to make informed choices in areas like education, employment and health especially reproductive health.
- To organize various types of training programs and create awareness about self-employment schemes for the encouragement among girl students and women.

Anti-Ragging Cell Decelaration Forms

1) Anti-ragging Committee

Constitution	Name of Member	Contact No
The Head of Institution	Niraj Shah	9099063010
Faculty Representative (Male)	Mitul Raj	8140965363
Faculty Representative (Female)	Nafisa Shaikh	7621875977
Representative of Non-Teaching Staff	Deepak Hotta	9512035610

2) Anti-Ragging Squad

Name	Designation	Contact No
Faculty Representative (Male)	Mitul Raj Faculty Member, Mechanical Engineering	8140965363
Faculty Representative (Female)	Ms. Chandni Patel, Counsellor, P P Savani University	9998770219
Representative of Non-Teaching Staff	Dhruvi Tailor	9212778750

AFFIDAVIT BY THE STUDENT

- 1) I, _____
(full name of student with admission/registration/enrolment number)
S/o or D/o Mr./Mrs./Ms. _____,
having been admitted to P P Savani School of Engineering , have received a copy of the UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009, (hereinafter called the “Regulations”) carefully read and fully understood the provisions contained in the said Regulations.
- 2) I have, in particular, perused clause 3 of the Regulations and am aware as to what constitutes ragging.
- 3) I have also, in particular, perused clause 7 and clause 9.1 of the Regulations and am fully aware of the penal and administrative action that is liable to be taken against me in case I am found guilty of or abetting ragging, actively or passively, or being part of a conspiracy to promote ragging.
- 4) I hereby solemnly aver and undertake that
- a. I will not indulge in any behaviour or act that may be constituted as ragging under clause 3 of the Regulations.
 - b. I will not participate in or abet or propagate through any act of commission or omission that may be constituted as ragging under clause 3 of the Regulations.
- 5) I hereby affirm that, if found guilty of ragging, I am liable for punishment according to clause 9.1 of the Regulations, without prejudice to any other criminal action that may be taken against me under any penal law or any law for the time being in force.
- 6) I hereby declare that I have not been expelled or debarred from admission in any institution in the country on account of being found guilty of, abetting or being part of a conspiracy to promote, ragging; and further affirm that, in case the declaration is found to be untrue, I am aware that my admission is liable to be cancelled.

Declared this _____ day of _____ month of _____ year. Sign: _____

Name: _____

VERIFICATION

Verified that the contents of this affidavit are true to the best of my knowledge and no part of the affidavit is false and nothing has been concealed or misstated therein.

Verified at P P Savani University on this _____ day of _____ month of _____ year.

Sign of Deponent : _____

Solemnly affirmed and signed in my presence on this _____ day of _____ month of _____ year,
after reading the contents of this affidavit.

OATH COMMISSIONER

AFFIDAVIT BY AFFIDAVIT BY PARENT/GUARDIAN

- 1) I, Mr./Mrs./Ms. _____
(full name of parent/guardian)
father/mother/guardian of _____
(full name of student with admission/registration/enrolment number)
having been admitted to P P Savani School of Engineering , have received a copy of the UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009, (hereinafter called the “Regulations”) carefully read and fully understood the provisions contained in the said Regulations.
- 2) I have, in particular, perused clause 3 of the Regulations and am aware as to what constitutes ragging.
- 3) I have also, in particular, perused clause 7 and clause 9.1 of the Regulations and am fully aware of the penal and administrative action that is liable to be taken against me in case I am found guilty of or abetting ragging, actively or passively, or being part of a conspiracy to promote ragging.
- 4) I hereby solemnly aver and undertake that
- a. My ward will not indulge in any behaviour or act that may be constituted as ragging under clause 3 of the Regulations.
 - b. My ward will not participate in or abet or propagate through any act of commission or omission that may be constituted as ragging under clause 3 of the Regulations.
- 5) I hereby affirm that, if found guilty of ragging, my ward is liable for punishment according to clause 9.1 of the Regulations, without prejudice to any other criminal action that may be taken against my ward under any penal law or any law for the time being in force.
- 6) I hereby declare that my ward has not been expelled or debarred from admission in any institution in the country on account of being found guilty of, abetting or being part of a conspiracy to promote, ragging; and further affirm that, in case the declaration is found to be untrue, the admission of my ward is liable to be cancelled.

Declared this _____ day of _____ month of _____ year. Sign of Deponent : _____

Name: _____

Address: _____

Telephone/ Mobile No.: _____

VERIFICATION

Verified that the contents of this affidavit are true to the best of my knowledge and no part of the affidavit is false and nothing has been concealed or misstated therein.

Verified at P P Savani University on this _____ day of _____ month of _____ year.

Sign of Deponent : _____

Solemnly affirmed and signed in my presence on this _____ day of _____ month of _____ year, after reading the contents of this affidavit.

OATH COMMISSIONER



Contact Details

For What	Contact Details
Admission Counselling	Ms. Chandni Patel 9879608000
Fees Payment	Kamlesh Patel 9427971248
Ragging Complaint	Anti-Ragging Committee Details available in Student Hand Book
Any Complaint by Girl Student/Staff	Women's Development Cell Details available in Student Hand Book
Any Complaint by Boy Student	Amir Patel 96018 27788
Computer & IT infrastructure related Query	Dhruvi Tailor 9712778750
Transport In-charge	Bhratbhai 9824143272
Hostel Administration	Jigisha Desai 9512035613
Canteen In-charge	Navin Upadhyay 8490931155
Technical Activity In-charge	Sofia Ahmed 6355556506 Vinaykumar Singb 9447609458 Chandresh Kumbhani 9924819207
Sports Activity In-charge	Raviraj Chauhan 7405419415 Kamlesh Parmar 8238915151
Cultural Activity In-charge	Payal Bhatt 7405526372 Neha Shah 9824184008
Subject Related Query	Subject Coordinator Details available in Student Hand Book





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