



## 1. General:

- (a) Name and Address of the College: P.E.S College of Engineering, Mandya
- (b) Name of the Principal: Dr. H.M. Nanjunda Swamy
- (c) E-mail ID: [principal@pesce.ac.in](mailto:principal@pesce.ac.in) Tel. No.: 08232-220043 Fax No.:222075
- (d) Autonomy granted for (*Please tick mark, whichever is applicable*): UG/PG/Research
- Cycle of Autonomy: **III Cycle**  
[5 Years for the period of 2019-24 excluding ex-post-facto period 2017-19]
  - List of Programmes covered (Use only approved abbreviations):
    - i) UG: AU, CV, CS, CSE (AIML), EC, EE, IP, IS, ME
    - ii) PG: MCA, MBA, CCS, LVS, SCS
  - New Programmes launched during the year, if any: NO
- (e) Academic Year Covered: 2021-22
- (f) Date the Return:2022-23

## 2. Information on Students/Courses:

- (a) Total No. of *students* admitted in the Autonomous Programmes:

- UG Level:

Approved Intake:  $880 \times 4 = 3520$

Year 1	Year 2	Year 3	Year 4
696	581+185	720	814

- PG & Research Levels:

Approved Intake:  $192 \times 2 = 384$

Year 1	Year 2
123	136



(b) Total No. of Courses/Credits offered in the Autonomous Programmes:

• **UG Level:**

<b>B.E. I - Semester [Physics Group] - Civil Engineering Stream (CES)</b>											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	<b>ASC</b> P22MACE101	Calculus, Differential Equations and Linear Algebra	MA	2	2	2	-	4	50	50	100
2	<b>#ASC</b> P22PHCE102	Applied Physics (IC)	PH	2	2	2	-	4	50	50	100
3	<b>ESC</b> P22ESCE103	Engineering Mechanics (IC)	CE	2	2	-	-	3	50	50	100
4	<b>ESC</b> P22ESC104X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	<b>ETC</b> P22ETC105X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	<b>PLC</b> P22PLC105X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	<b>AEC</b> P22ENG106	Communicative English - I	Humanities	-	2	-	-	1	50	50	100
7	P22KSK107 / P22KKBK107	Sanskrutika Kannada / Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	<b>HSMS</b> P22ICO107	Indian Constitution									
8	<b>AEC/SDC</b> P22IDT108	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	<b>AEC/SDC</b> P22SFH108	Scientific Foundation for Health									
<b>Total</b>								<b>20</b>	<b>400</b>	<b>400</b>	<b>800</b>

**SDA** - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

<p><b>Credit Definition:</b>          1-hour Lecture (L) per week=<b>1Credit</b>          2-hours Tutorial (T) per week=<b>1Credit</b>          2-hours Practical / Drawing (P) per week=<b>1Credit</b>          2-hous Skill Development Actives (SDA) per week = <b>1 Credit</b></p>	<p>04-Credits courses are to be designed for 50 hours of Teaching-Learning Session          04-Credits (IC) are to be designed for 40 hours’ theory and 12-14 hours of practical sessions          03-Credits courses are to be designed for 40 hours of Teaching-Learning Session          02- Credits courses are to be designed for 25 hours of Teaching-Learning Session          01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions</p>
<p><b>Student’s Induction Program:</b> Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students’ character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXURE I of Induction Programs notification of the University published at the beginning of the 1st semester.</p>	



**AICTE Activity Points** to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student’s eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours’ requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

**#-P22PHCE102** SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0 ).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

<b>(ESC-I) Engineering Science Courses-I</b>					<b>(ETC-I) Emerging Technology Courses-I</b>				
Code	Title	L	T	P	Code	Title	L	T	P
P22ESC1041	Introduction to Civil Engineering	3	0	0	P22ETC1051	Green Buildings	3	0	0
P22ESC1042	Introduction to Electrical Engineering	3	0	0	P22ETC1052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC1043	Introduction to Electronics Engineering	3	0	0	P22ETC1053	Introduction to Embedded System	3	0	0
P22ESC1044	Introduction to Mechanical Engineering	3	0	0	P22ETC1054	Renewable Energy Sources	3	0	0
P22ESC1045	Introduction to C Programming	2	0	2	P22ETC1055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC1056	Smart Materials and Systems	3	0	0
					P22ETC1057	Introduction to Cyber Security	3	0	0
					<i>Note: ETC list shall be defined by the concerned department</i>				

<b>(PLC-I) Programming Language Courses-I</b>					<ul style="list-style-type: none"> <li>• <i>The student has to select one course from the ESC-I group.</i></li> <li>• <i>Civil and allied branches Students shall opt for any one of the courses from the ESC-I group except, P22ESC1041-Introduction to Civil Engineering</i></li> <li>• <i>The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester</i></li> <li>• <i>The students must select one course from either ETC-I or PLC-I group.</i></li> <li>• <i>If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa</i></li> </ul>
Code	Title	L	T	P	
P22PLC1051	Introduction to Web Programming	2	0	2	
P22PLC1052	Introduction to Python Programming	2	0	2	
P22PLC1053	Basics of JAVA programming	2	0	2	
P22PLC1054	Introduction to C++ Programming	2	0	2	



<b>B.E. II – Semester [Chemistry Group] – Civil Engineering Stream (CES)</b>											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	<b>ASC</b>	Integral Calculus, Partial Differential Equations and Numerical methods	MA	2	2	2	-	4	50	50	100
	P22MACE201										
2	<b>#ASC</b>	Applied Chemistry (IC)	CH	2	2	2	-	4	50	50	100
	P22CHCE202										
3	<b>ESC</b>	Computer – Aided Engineering Drawing	AU / IP /ME	2	-	2	-	3	50	50	100
	P22CED203										
4	<b>ESC</b>	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
	P22ESC204X										
5	<b>ETC</b>	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	P22ETC205X										
	<b>PLC</b>	OR		Programming Languages Course-I (IC)	2	-	2	-	3	50	50
6	<b>AEC</b>	Communicative English - II	Humanities	-	2	-	-	1	50	50	100
	P22ENG206										
7	P22KSK207 / P22KBK207	Sanskrutika Kannada / Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	<b>HSMS</b>	P22ICO207									
8	<b>AEC/SDC</b>	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	P22IDT208										
	<b>AEC/SDC</b>	P22SFH208									
<b>Total</b>								<b>20</b>	<b>400</b>	<b>400</b>	<b>800</b>

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<p><b>Student’s Induction Program:</b> Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students’ character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXURE I of Induction Programs notification of the University published at the beginning of the 1st semester.</p>	
<p><b>AICTE Activity Points</b> to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student’s eighth semester Grade Card.</p>	



**Visvesvaraya Technological University**  
(State University of Government of Karnataka Established as per the VTU Act,1994)  
“Jnana Sangama” Belagavi-590018, Karnataka, India

The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-**P22CHCE202** SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0 ).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

<b>(ESC-I) Engineering Science Courses-I</b>					<b>(ETC-I) Emerging Technology Courses-I</b>				
Code	Title	L	T	P	Code	Title	L	T	P
P22ESC2041	Introduction to Civil Engineering	3	0	0	P22ETC2051	Green Buildings	3	0	0
P22ESC2042	Introduction to Electrical Engineering	3	0	0	P22ETC2052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC2043	Introduction to Electronics Engineering	3	0	0	P22ETC2053	Introduction to Embedded System	3	0	0
P22ESC2044	Introduction to Mechanical Engineering	3	0	0	P22ETC2054	Renewable Energy Sources	3	0	0
P22ESC2045	Introduction to C Programming	2	0	2	P22ETC2055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC2056	Smart Materials and Systems	3	0	0
					P22ETC2057	Introduction to Cyber Security	3	0	0
<b>Note: ETC list shall be defined by the concerned department</b>									

<b>(PLC-I) Programming Language Courses-I</b>				
Code	Title	L	T	P
P22PLC2051	Introduction to Web Programming	2	0	2
P22PLC2052	Introduction to Python Programming	2	0	2
P22PLC2053	Basics of JAVA programming	2	0	2
P22PLC2054	Introduction to C++ Programming	2	0	2

- *The student has to select one course from the ESC-I group.*
- *Civil and allied branches Students shall opt for any one of the courses from the ESC-I group except, P22ESC2041-Introduction to Civil Engineering*
- *The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester*
- *The students must select one course from either ETC-I or PLC-I group.*
- *If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa*



<b>B.E. I – Semester [Chemistry Group] – Civil Engineering Stream (CES)</b>											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	ASC P22MACE101	Calculus, Differential Equations and Linear Algebra	MA	2	2	2	-	4	50	50	100
2	#ASC P22CHCE102	Applied Chemistry (IC)	CH	2	2	2	-	4	50	50	100
3	ESC P22CED103	Computer – Aided Engineering Drawing	ME / IP / AU	2	-	2	-	3	50	50	100
4	ESC P22ESC104X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	ETC P22ETC105X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	PLC P22PLC105X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	AEC P22ENG106	Communicative English - I	Humanities	-	2	-	-	1	50	50	100
7	P22KSK107 / P22KKBK107	Sanskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	HSMS P22ICO107	Indian Constitution									
8	AEC/SDC P22IDT108	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	AEC/SDC P22SFH108	Scientific Foundation for Health									
<b>Total</b>								<b>20</b>	<b>400</b>	<b>400</b>	<b>800</b>

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#-**P22CHCE102** SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0 ).

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<b>Note: ETC list shall be defined by the concerned department</b>									

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Code	Title	L	T	P	
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1	<b>ASC</b>	Integral Calculus, Partial Differential Equations and Numerical methods	MA	2	2	2	-	4	50	50	100
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3	<b>ESC</b>	Engineering Mechanics (IC)	CE	2	-	2	-	3	50	50	100
	P22ESCE203										
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	P22ESC204X										
5	<b>ETC</b>	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	P22ETC205X										
	OR										
	<b>PLC</b>	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	<b>AEC</b>	Communicative English - II	Humanities	-	2	-	-	1	50	50	100
	P22ENG206										
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	OR										
	<b>HSMS</b>	Indian Constitution									
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<p><b>AICTE Activity Points</b> to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student’s eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and</p>	





convenience of the student from the year of entry to the program. However, the minimum hours’ requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-**P22PHCE202** SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0 ).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

<b>(ESC-I) Engineering Science Courses-I</b>					<b>(ETC-I) Emerging Technology Courses-I</b>				
Code	Title	L	T	P	Code	Title	L	T	P
P22ESC2041	Introduction to Civil Engineering	3	0	0	P22ETC2051	Green Buildings	3	0	0
P22ESC2042	Introduction to Electrical Engineering	3	0	0	P22ETC2052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC2043	Introduction to Electronics Engineering	3	0	0	P22ETC2053	Introduction to Embedded System	3	0	0
P22ESC2044	Introduction to Mechanical Engineering	3	0	0	P22ETC2054	Renewable Energy Sources	3	0	0
P22ESC2045	Introduction to C Programming	2	0	2	P22ETC2055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC2056	Smart Materials and Systems	3	0	0
					P22ETC2057	Introduction to Cyber Security	3	0	0
<b>Note: ETC list shall be defined by the concerned department</b>									

<b>(PLC-I) Programming Language Courses-I</b>				
Code	Title	L	T	P
P22PLC2051	Introduction to Web Programming	2	0	2
P22PLC2052	Introduction to Python Programming	2	0	2
P22PLC2053	Basics of JAVA programming	2	0	2
P22PLC2054	Introduction to C++ Programming	2	0	2

- *The student has to select one course from the ESC-I group.*
- *Civil and allied branches Students shall opt for any one of the courses from the ESC-I group except, P22ESC2041-Introduction to Civil Engineering*
- *The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester*
- *The students must select one course from either ETC-I or PLC-I group.*
- *If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa*



<b>B.E. I – Semester [Physics Group] – Computer Science &amp; Engineering Stream (CSE)</b>											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	<b>ASC</b>	Calculus, Differential Equations and Linear Algebra	MA	2	2	2	-	4	50	50	100
	P22MACS101										
2	<b>#ASC</b>	Applied Physics (IC)	PH	2	2	2	-	4	50	50	100
	P22PHCS102										
3	<b>ESC</b>	Principles of Programming Using C (IC)	CS / IS / AIML	2	-	2	-	3	50	50	100
	P22ESCS103										
4	<b>ESC</b>	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
	P22ESC104X										
5	<b>ETC</b>	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	P22ETC105X										
	OR										
	<b>PLC</b>	Programming Languages Course-I (IC)	Humanities	2	-	2	-	3	50	50	100
	P22PLC105X										
6	<b>AEC</b>	Communicative English - I	Humanities	-	2	-	-	1	50	50	100
	P22ENG106										
7		Sanskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	P22KSK107 / P22KBK107										
	OR										
	<b>HSMS</b>	Indian Constitution	Any Dept	-	2	-	-	1	50	50	100
	P22ICO107										
8	<b>AEC/SDC</b>	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	P22IDT108										
	OR										
	<b>AEC/SDC</b>	Scientific Foundation for Health	Any Dept	-	2	-	-	1	50	50	100
	P22SFH108										
<b>Total</b>								<b>20</b>	<b>400</b>	<b>400</b>	<b>800</b>

**SDA** - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

<p><b>Credit Definition:</b>          1-hour Lecture (L) per week=<b>1Credit</b>          2-hours Tutorial (T) per week=<b>1Credit</b>          2-hours Practical / Drawing (P) per week=<b>1Credit</b>          2-hous Skill Development Actives (SDA) per week = <b>1 Credit</b></p>	<p>04-Credits courses are to be designed for 50 hours of Teaching-Learning Session          04-Credits (IC) are to be designed for 40 hours’ theory and 12-14 hours of practical sessions          03-Credits courses are to be designed for 40 hours of Teaching-Learning Session          02- Credits courses are to be designed for 25 hours of Teaching-Learning Session          01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions</p>
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**Student’s Induction Program:** Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students’ character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXURE I of Induction Programs notification of the University published at the beginning of the 1st semester.

**AICTE Activity Points** to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student’s eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the



student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-**P22PHCS102** SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0 ).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

<b>(ESC-I) Engineering Science Courses-I</b>					<b>(ETC-I) Emerging Technology Courses-I</b>				
Code	Title	L	T	P	Code	Title	L	T	P
P22ESC1041	Introduction to Civil Engineering	3	0	0	P22ETC1051	Green Buildings	3	0	0
P22ESC1042	Introduction to Electrical Engineering	3	0	0	P22ETC1052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC1043	Introduction to Electronics Engineering	3	0	0	P22ETC1053	Introduction to Embedded System	3	0	0
P22ESC1044	Introduction to Mechanical Engineering	3	0	0	P22ETC1054	Renewable Energy Sources	3	0	0
P22ESC1045	Introduction to C Programming	2	0	2	P22ETC1055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC1056	Smart Materials and Systems	3	0	0
					P22ETC1057	Introduction to Cyber Security	3	0	0
<b>Note: ETC list shall be defined by the concerned department</b>									

<b>(PLC-I) Programming Language Courses-I</b>				
Code	Title	L	T	P
P22PLC1051	Introduction to Web Programming	2	0	2
P22PLC1052	Introduction to Python Programming	2	0	2
P22PLC1053	Basics of JAVA programming	2	0	2
P22PLC1054	Introduction to C++ Programming	2	0	2

- *The student has to select one course from the ESC-I group.*
- *CSE/ISE and allied branches Students shall opt for any one of the courses from the ESC-I group except, P22ESC1045-Introduction to C Programming*
- *The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester*
- *The students must select one course from either ETC-I or PLC-I group.*
- *If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa*



<b>B.E. II – Semester [Chemistry Group] – Computer Science &amp; Engineering Stream (CSE)</b>											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	<b>ASC</b>	Integral Calculus, Partial Differential Equations and Numerical methods	MA	2	2	2	-	4	50	50	100
	P22MACS201										
2	<b>#ASC</b>	Applied Chemistry (IC)	CH	2	2	2	-	4	50	50	100
	P22CHCS202										
3	<b>ESC</b>	Computer – Aided Engineering Drawing	ME / IP / AU	2	-	2	-	3	50	50	100
	P22CED203										
4	<b>ESC</b>	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
	P22ESC204X										
5	<b>ETC</b>	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	P22ETC205X										
	<b>PLC</b>	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	<b>AEC</b>	Communicative English - II	Humanities	-	2	-	-	1	50	50	100
	P22ENG206										
7	P22KSK207 / P22KBK207	Sanskrutika Kannada / Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	<b>HSMS</b>	Indian Constitution									
8	<b>AEC/SDC</b>	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	P22IDT208										
	OR										
	<b>AEC/SDC</b>	Scientific Foundation for Health									
<b>Total</b>								<b>20</b>	<b>400</b>	<b>400</b>	<b>800</b>

**SDA** - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

<p><b>Credit Definition:</b>          1-hour Lecture (L) per week=<b>1Credit</b>          2-hours Tutorial (T) per week=<b>1Credit</b>          2-hours Practical / Drawing (P) per week=<b>1Credit</b>          2-hous Skill Development Actives (SDA) per week = <b>1 Credit</b></p>	<p>04-Credits courses are to be designed for 50 hours of Teaching-Learning Session          04-Credits (IC) are to be designed for 40 hours’ theory and 12-14 hours of practical sessions          03-Credits courses are to be designed for 40 hours of Teaching-Learning Session          02- Credits courses are to be designed for 25 hours of Teaching-Learning Session          01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions</p>
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**Student’s Induction Program:** Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students’ character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXURE I of Induction Programs notification of the University published at the beginning of the 1st semester.

**AICTE Activity Points** to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student’s eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the



student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-**P22CHCS202** SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0 ).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

<b>(ESC-I) Engineering Science Courses-I</b>					<b>(ETC-I) Emerging Technology Courses-I</b>				
Code	Title	L	T	P	Code	Title	L	T	P
P22ESC2041	Introduction to Civil Engineering	3	0	0	P22ETC2051	Green Buildings	3	0	0
P22ESC2042	Introduction to Electrical Engineering	3	0	0	P22ETC2052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC2043	Introduction to Electronics Engineering	3	0	0	P22ETC2053	Introduction to Embedded System	3	0	0
P22ESC2044	Introduction to Mechanical Engineering	3	0	0	P22ETC2054	Renewable Energy Sources	3	0	0
P22ESC2045	Introduction to C Programming	2	0	2	P22ETC2055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC2056	Smart Materials and Systems	3	0	0
					P22ETC2057	Introduction to Cyber Security	3	0	0
<i>Note: ETC list shall be defined by the concerned department</i>									

<b>(PLC-I) Programming Language Courses-I</b>					<ul style="list-style-type: none"> <li>• <i>The student has to select one course from the ESC-I group.</i></li> <li>• <i>CSE/ISE and allied branches Students shall opt for any one of the courses from the ESC-I group except, P22ESC2045-Introduction to C Programming</i></li> <li>• <i>The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester</i></li> <li>• <i>The students must select one course from either ETC-I or PLC-I group.</i></li> <li>• <i>If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa</i></li> </ul>
Code	Title	L	T	P	
P22PLC2051	Introduction to Web Programming	2	0	2	
P22PLC2052	Introduction to Python Programming	2	0	2	
P22PLC2053	Basics of JAVA programming	2	0	2	
P22PLC2054	Introduction to C++ Programming	2	0	2	



<b>B.E. I – Semester [Chemistry Group] – Computer Science &amp; Engineering Stream (CSE)</b>											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	<b>ASC</b> P22MACS101	Calculus, Differential Equations and Linear Algebra	MA	2	2	2	-	4	50	50	100
2	<b>#ASC</b> P22CHCS102	Applied Chemistry (IC)	CH	2	2	2	-	4	50	50	100
3	<b>ESC</b> P22CED103	Computer – Aided Engineering Drawing	ME / IP / AU	2	-	2	-	3	50	50	100
4	<b>ESC</b> P22ESC104X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	<b>ETC</b> P22ETC105X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	<b>PLC</b> P22PLC105X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	<b>AEC</b> P22ENG106	Communicative English - I	Humanities	-	2	-	-	1	50	50	100
7	P22KSK107 / P22KKBK107	Sanskrutika Kannada / Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	<b>HSMS</b> P22ICO107	Indian Constitution									
8	<b>AEC/SDC</b> P22IDT108	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	<b>AEC/SDC</b> P22SFH108	Scientific Foundation for Health									
<b>Total</b>								<b>20</b>	<b>400</b>	<b>400</b>	<b>800</b>

**SDA** - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

<p><b>Credit Definition:</b> 1-hour Lecture (L) per week=<b>1Credit</b> 2-hours Tutorial (T) per week=<b>1Credit</b> 2-hours Practical / Drawing (P) per week=<b>1Credit</b> 2-hous Skill Development Actives (SDA) per week = <b>1 Credit</b></p>	<p>04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions</p>
<p><b>Student's Induction Program:</b> Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXURE I of Induction Programs notification of the University published at the beginning of the 1st semester.</p>	
<p><b>AICTE Activity Points</b> to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be</p>	



fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-**P22CHCS102** SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0 ).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

<b>(ESC-I) Engineering Science Courses-I</b>					<b>(ETC-I) Emerging Technology Courses-I</b>				
Code	Title	L	T	P	Code	Title	L	T	P
P22ESC1041	Introduction to Civil Engineering	3	0	0	P22ETC1051	Green Buildings	3	0	0
P22ESC1042	Introduction to Electrical Engineering	3	0	0	P22ETC1052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC1043	Introduction to Electronics Engineering	3	0	0	P22ETC1053	Introduction to Embedded System	3	0	0
P22ESC1044	Introduction to Mechanical Engineering	3	0	0	P22ETC1054	Renewable Energy Sources	3	0	0
P22ESC1045	Introduction to C Programming	2	0	2	P22ETC1055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC1056	Smart Materials and Systems	3	0	0
					P22ETC1057	Introduction to Cyber Security	3	0	0
<b>Note: ETC list shall be defined by the concerned department</b>									

<b>(PLC-I) Programming Language Courses-I</b>					<ul style="list-style-type: none"> <li>• <i>The student has to select one course from the ESC-I group.</i></li> <li>• <i>CSE/ISE and allied branches Students shall opt for any one of the courses from the ESC-I group except, P22ESC1045-Introduction to C Programming</i></li> <li>• <i>The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester</i></li> <li>• <i>The students must select one course from either ETC-I or PLC-I group.</i></li> <li>• <i>If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa</i></li> </ul>
Code	Title	L	T	P	
P22PLC1051	Introduction to Web Programming	2	0	2	
P22PLC1052	Introduction to Python Programming	2	0	2	
P22PLC1053	Basics of JAVA programming	2	0	2	
P22PLC1054	Introduction to C++ Programming	2	0	2	



<b>B.E. II – Semester [Physics Group] – Computer Science &amp; Engineering Stream (CSE)</b>											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	<b>ASC</b>	Integral Calculus, Partial Differential Equations and Numerical methods	MA	2	2	2	-	4	50	50	100
	P22MACS201										
2	<b>#ASC</b>	Applied Physics (IC)	PH	2	2	2	-	4	50	50	100
	P22PHCS202										
3	<b>ESC</b>	Principles of Programming Using C (IC)	CS / IS / AIML	2	-	2	-	3	50	50	100
	P22ESCS203										
4	<b>ESC</b>	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
	P22ESC204X										
5	<b>ETC</b>	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	P22ETC205X										
	OR										
	<b>PLC</b>	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
	P22PLC205X										
6	<b>AEC</b>	Communicative English - II	Humanities	-	2	-	-	1	50	50	100
	P22ENG206										
7	P22KSK207 / P22KBK207	Sanskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	<b>HSMS</b>	Indian Constitution									
	P22ICO207										
8	<b>AEC/SDC</b>	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	P22IDT208										
	OR										
	<b>AEC/SDC</b>	Scientific Foundation for Health									
	P22SFH208										
<b>Total</b>								<b>20</b>	<b>400</b>	<b>400</b>	<b>800</b>

**SDA** - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** - Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

<p><b>Credit Definition:</b>          1-hour Lecture (L) per week=<b>1Credit</b>          2-hours Tutorial (T) per week=<b>1Credit</b>          2-hours Practical / Drawing (P) per week=<b>1Credit</b>          2-hous Skill Development Actives (SDA) per week = <b>1 Credit</b></p>	<p>04-Credits courses are to be designed for 50 hours of Teaching-Learning Session          04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions          03-Credits courses are to be designed for 40 hours of Teaching-Learning Session          02- Credits courses are to be designed for 25 hours of Teaching-Learning Session          01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions</p>
<p><b>Student's Induction Program:</b> Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXURE I of Induction Programs notification of the University published at the beginning of the 1st semester.</p>	
<p><b>AICTE Activity Points</b> to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the</p>	





student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-P22PHCS202 SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0 ).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

<b>(ESC-I) Engineering Science Courses-I</b>					<b>(ETC-I) Emerging Technology Courses-I</b>				
Code	Title	L	T	P	Code	Title	L	T	P
P22ESC2041	Introduction to Civil Engineering	3	0	0	P22ETC2051	Green Buildings	3	0	0
P22ESC2042	Introduction to Electrical Engineering	3	0	0	P22ETC2052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC2043	Introduction to Electronics Engineering	3	0	0	P22ETC2053	Introduction to Embedded System	3	0	0
P22ESC2044	Introduction to Mechanical Engineering	3	0	0	P22ETC2054	Renewable Energy Sources	3	0	0
P22ESC2045	Introduction to C Programming	2	0	2	P22ETC2055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC2056	Smart Materials and Systems	3	0	0
					P22ETC2057	Introduction to Cyber Security	3	0	0
					<i>Note: ETC list shall be defined by the concerned department</i>				

<b>(PLC-I) Programming Language Courses-I</b>					<ul style="list-style-type: none"> <li>• The student has to select one course from the ESC-I group.</li> <li>• CSE/ISE and allied branches Students shall opt for any one of the courses from the ESC-I group except, P22ESC2045-Introduction to C Programming</li> <li>• The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester</li> <li>• The students must select one course from either ETC-I or PLC-I group.</li> <li>• If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa</li> </ul>
Code	Title	L	T	P	
P22PLC2051	Introduction to Web Programming	2	0	2	
P22PLC2052	Introduction to Python Programming	2	0	2	
P22PLC2053	Basics of JAVA programming	2	0	2	
P22PLC2054	Introduction to C++ Programming	2	0	2	



<b>B.E. I – Semester [Chemistry Group] – Electrical &amp; Electronics Engineering Stream (EEE)</b>											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	<b>ASC</b> P22MAEE101	Calculus, Differential Equations and Linear Algebra	MA	2	2	2	-	4	50	50	100
2	<b>#ASC</b> P22CHEE102	Applied Chemistry (IC)	CH	2	2	2	-	4	50	50	100
3	<b>ESC</b> P22CED103	Computer – Aided Engineering Drawing	ME / IP / AU	2	-	2	-	3	50	50	100
4	<b>ESC</b> P22ESC104X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	<b>ETC</b> P22ETC105X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	<b>PLC</b> P22PLC105X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	<b>AEC</b> P22ENG106	Communicative English - I	Humanities	-	2	-	-	1	50	50	100
7	P22KSK107 / P22KBK107	Sanskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	<b>HSMS</b> P22ICO107	Indian Constitution									
8	<b>AEC/SDC</b> P22IDT108	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	<b>AEC/SDC</b> P22SFH108	Scientific Foundations for Health									
<b>Total</b>								<b>20</b>	<b>400</b>	<b>400</b>	<b>800</b>

**SDA** - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

<p><b>Credit Definition:</b> 1-hour Lecture (L) per week=<b>1Credit</b> 2-hours Tutorial (T) per week=<b>1Credit</b> 2-hours Practical / Drawing (P) per week=<b>1Credit</b> 2-hous Skill Development Actives (SDA) per week = <b>1 Credit</b></p>	<p>04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours’ theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions</p>
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**Student’s Induction Program:** Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students’ character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXURE I of Induction Programs notification of the University published at the beginning of the 1st semester.

**AICTE Activity Points** to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student’s eighth semester Grade Card. The activities can



be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-**P22CHEE102** SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0 ).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

<b>(ESC-I) Engineering Science Courses-I</b>					<b>(ETC-I) Emerging Technology Courses-I</b>				
Code	Title	L	T	P	Code	Title	L	T	P
P22ESC1041	Introduction to Civil Engineering	3	0	0	P22ETC1051	Green Buildings	3	0	0
P22ESC1042	Introduction to Electrical Engineering	3	0	0	P22ETC1052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC1043	Introduction to Electronics Engineering	3	0	0	P22ETC1053	Introduction to Embedded System	3	0	0
P22ESC1044	Introduction to Mechanical Engineering	3	0	0	P22ETC1054	Renewable Energy Sources	3	0	0
P22ESC1045	Introduction to C Programming	2	0	2	P22ETC1055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC1056	Smart Materials and Systems	3	0	0
					P22ETC1057	Introduction to Cyber Security	3	0	0

*Note: ETC list shall be defined by the concerned department*

<b>(PLC-I) Programming Language Courses-I</b>				
Code	Title	L	T	P
P22PLC1051	Introduction to Web Programming	2	0	2
P22PLC1052	Introduction to Python Programming	2	0	2
P22PLC1053	Basics of JAVA programming	2	0	2
P22PLC1054	Introduction to C++ Programming	2	0	2

- *The student has to select one course from the ESC-I group.*
- *EEE Students shall opt for any one of the courses from the ESC-I group except, P22ESC1042- Introduction to Electrical Engineering and ECE students shall opt any one of the courses from ESC-I except P22ESC1043 Introduction to Electronics Engineering*
- *The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester*
- *The students must select one course from either ETC-I or PLC-I group.*
- *If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa*



**Visvesvaraya Technological University**  
(State University of Government of Karnataka Established as per the VTU Act,1994)  
“Jnana Sangama” Belagavi-590018, Karnataka, India

<b>B.E. II – Semester [Physics Group] – Electrical &amp; Electronics Engineering Stream (EEE)</b>											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	<b>ASC</b> P22MAEE201	Integral Calculus, Partial Differential Equations and Numerical methods	MA	2	2	2	-	4	50	50	100
2	<b>#ASC</b> P22PHEE202	Applied Physics (IC)	PH	2	2	2	-	4	50	50	100
3	<b>ESC</b> P22EEE203 Or P22BEE203	Elements of Electrical Engineering <b>OR</b> Basic Electronics	EE / EC	2	2	-	-	3	50	50	100
4	<b>ESC</b> P22ESC204X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	<b>ETC</b> P22ETC205X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	<b>PLC</b> P22PLC205X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	<b>AEC</b> P22ENG206	Communicative English - II	Humanities	-	2	-	-	1	50	50	100
7	P22KSK207 / P22KBK207	Sanskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	<b>HSMS</b> P22ICO207	Indian Constitution									
8	<b>AEC/SDC</b> P22IDT208	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	<b>AEC/SDC</b> P22SFH208	Scientific Foundations for Health									
<b>Total</b>								<b>20</b>	<b>400</b>	<b>400</b>	<b>800</b>

**SDA** - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** - Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

<p><b>Credit Definition:</b> 1-hour Lecture (L) per week=<b>1Credit</b> 2-hours Tutorial (T) per week=<b>1Credit</b> 2-hours Practical / Drawing (P) per week=<b>1Credit</b> 2-hous Skill Development Actives (<b>SDA</b>) per week = <b>1 Credit</b></p>	<p>04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours’ theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions</p>
<p><b>Student’s Induction Program:</b> Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students’ character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXURE I of Induction Programs notification of the University published at the beginning of the 1st semester.</p>	
<p><b>AICTE Activity Points</b> to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of</p>	



entry to VTU. The Activity Points earned shall be reflected on the student’s eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours’ requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-P22PHEE102 SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0 ).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

<b>(ESC-I) Engineering Science Courses-I</b>					<b>(ETC-I) Emerging Technology Courses-I</b>				
Code	Title	L	T	P	Code	Title	L	T	P
P22ESC2041	Introduction to Civil Engineering	3	0	0	P22ETC2051	Green Buildings	3	0	0
P22ESC2042	Introduction to Electrical Engineering	3	0	0	P22ETC2052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC2043	Introduction to Electronics Engineering	3	0	0	P22ETC2053	Introduction to Embedded System	3	0	0
P22ESC2044	Introduction to Mechanical Engineering	3	0	0	P22ETC2054	Renewable Energy Sources	3	0	0
P22ESC2045	Introduction to C Programming	2	0	2	P22ETC2055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC2056	Smart Materials and Systems	3	0	0
					P22ETC2057	Introduction to Cyber Security	3	0	0
<b>Note: ETC list shall be defined by the concerned department</b>									

<b>(PLC-I) Programming Language Courses-I</b>					<ul style="list-style-type: none"> <li>• <i>The student has to select one course from the ESC-I group.</i></li> <li>• <i>EEE Students shall opt for any one of the courses from the ESC-I group except, P22ESC2042- Introduction to Electrical Engineering and ECE students shall opt any one of the courses from ESC-I except P22ESC2043 Introduction to Electronics Engineering</i></li> <li>• <i>The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester</i></li> <li>• <i>The students must select one course from either ETC-I or PLC-I group.</i></li> <li>• <i>If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa</i></li> </ul>
Code	Title	L	T	P	
P22PLC2051	Introduction to Web Programming	2	0	2	
P22PLC2052	Introduction to Python Programming	2	0	2	
P22PLC2053	Basics of JAVA programming	2	0	2	
P22PLC2054	Introduction to C++ Programming	2	0	2	



<b>B.E. I – Semester [Physics Group] – Electrical &amp; Electronics Engineering Stream (EEE)</b>											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	<b>ASC</b> P22MAEE101	Calculus, Differential Equations and Linear Algebra	MA	2	2	2	-	4	50	50	100
2	<b>#ASC</b> P22PHEE102	Applied Physics (IC)	PH	2	2	2	-	4	50	50	100
3	<b>ESC</b> P22EEE103 Or P22BEE103	Elements of Electrical Engineering <b>OR</b> Basic Electronics	EE / EC	2	2	-	-	3	50	50	100
4	<b>ESC</b> P22ESC104X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	<b>ETC</b> P22ETC105X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	<b>PLC</b> P22PLC105X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	<b>AEC</b> P22ENG106	Communicative English - I	Humanities	-	2	-	-	1	50	50	100
7	P22KSK107 / P22KBK107	Sanskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	<b>OR</b>										
	<b>HSMS</b> P22ICO107	Indian Constitution									
8	<b>AEC/SDC</b> P22IDT108	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	<b>OR</b>										
	<b>AEC/SDC</b> P22SFH108	Scientific Foundations for Health									
<b>Total</b>								<b>20</b>	<b>400</b>	<b>400</b>	<b>800</b>

**SDA** - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** - Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

<p><b>Credit Definition:</b> 1-hour Lecture (L) per week=<b>1Credit</b> 2-hours Tutorial (T) per week=<b>1Credit</b> 2-hours Practical / Drawing (P) per week=<b>1Credit</b> 2-hous Skill Development Actives (<b>SDA</b>) per week = <b>1 Credit</b></p>	<p>04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions</p>
<p><b>Student's Induction Program:</b> Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXURE I of Induction Programs notification of the University published at the beginning of the 1st semester.</p>	



**AICTE Activity Points** to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student’s eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours’ requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-**P22PHEE102** SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0 ).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

<b>(ESC-I) Engineering Science Courses-I</b>					<b>(ETC-I) Emerging Technology Courses-I</b>				
Code	Title	L	T	P	Code	Title	L	T	P
P22ESC1041	Introduction to Civil Engineering	3	0	0	P22ETC1051	Green Buildings	3	0	0
P22ESC1042	Introduction to Electrical Engineering	3	0	0	P22ETC1052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC1043	Introduction to Electronics Engineering	3	0	0	P22ETC1053	Introduction to Embedded System	3	0	0
P22ESC1044	Introduction to Mechanical Engineering	3	0	0	P22ETC1054	Renewable Energy Sources	3	0	0
P22ESC1045	Introduction to C Programming	2	0	2	P22ETC1055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC1056	Smart Materials and Systems	3	0	0
					P22ETC1057	Introduction to Cyber Security	3	0	0

**Note: ETC list shall be defined by the concerned department**

<b>(PLC-I) Programming Language Courses-I</b>				
Code	Title	L	T	P
P22PLC1051	Introduction to Web Programming	2	0	2
P22PLC1052	Introduction to Python Programming	2	0	2
P22PLC1053	Basics of JAVA programming	2	0	2
P22PLC1054	Introduction to C++ Programming	2	0	2

- *The student has to select one course from the ESC-I group.*
- *EEE Students shall opt for any one of the courses from the ESC-I group except, P22ESC1042- Introduction to Electrical Engineering and ECE students shall opt any one of the courses from ESC-I except P22ESC1043 Introduction to Electronics Engineering*
- *The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester*
- *The students must select one course from either ETC-I or PLC-I group.*
- *If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa*



<b>B.E. II – Semester [Chemistry Group] – Electrical &amp; Electronics Engineering Stream (EEE)</b>											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	<b>ASC</b>	Integral Calculus, Partial Differential Equations and Numerical methods	MA	2	2	2	-	4	50	50	100
	P22MAEE201										
2	<b>#ASC</b>	Applied Chemistry (IC)	CH	2	2	2	-	4	50	50	100
	P22CHEE202										
3	<b>ESC</b>	Computer – Aided Engineering Drawing	ME / IP / AU	2	-	2	-	3	50	50	100
	P22CED203										
4	<b>ESC</b>	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
	P22ESC204X										
5	<b>ETC</b>	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	P22ETC205X										
	OR										
	<b>PLC</b>	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	<b>AEC</b>	Communicative English - II	Humanities	-	2	-	-	1	50	50	100
	P22ENG206										
7		Sanskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	P22KSK207 / P22KBK207										
	OR										
	<b>HSMS</b>	Indian Constitution									
8	<b>AEC/SDC</b>	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	P22IDT208										
	OR										
	<b>AEC/SDC</b>	Scientific Foundations for Health									
	P22SFH208										
<b>Total</b>								<b>20</b>	<b>400</b>	<b>400</b>	<b>800</b>

**SDA** - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

<p><b>Credit Definition:</b>          1-hour Lecture (L) per week=<b>1Credit</b>          2-hours Tutorial (T) per week=<b>1Credit</b>          2-hours Practical / Drawing (P) per week=<b>1Credit</b>          2-hous Skill Development Actives (SDA) per week = <b>1 Credit</b></p>	<p>04-Credits courses are to be designed for 50 hours of Teaching-Learning Session          04-Credits (IC) are to be designed for 40 hours’ theory and 12-14 hours of practical sessions          03-Credits courses are to be designed for 40 hours of Teaching-Learning Session          02- Credits courses are to be designed for 25 hours of Teaching-Learning Session          01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions</p>
<p><b>Student’s Induction Program:</b> Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students’ character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXURE I of Induction Programs notification of the University published at the beginning of the 1st semester.</p>	
<p><b>AICTE Activity Points</b> to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student’s eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and</p>	





convenience of the student from the year of entry to the program. However, the minimum hours’ requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-**P22CHEE202** SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0 ).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

<b>(ESC-I) Engineering Science Courses-I</b>					<b>(ETC-I) Emerging Technology Courses-I</b>				
Code	Title	L	T	P	Code	Title	L	T	P
P22ESC2041	Introduction to Civil Engineering	3	0	0	P22ETC2051	Green Buildings	3	0	0
P22ESC2042	Introduction to Electrical Engineering	3	0	0	P22ETC2052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC2043	Introduction to Electronics Engineering	3	0	0	P22ETC2053	Introduction to Embedded System	3	0	0
P22ESC2044	Introduction to Mechanical Engineering	3	0	0	P22ETC2054	Renewable Energy Sources	3	0	0
P22ESC2045	Introduction to C Programming	2	0	2	P22ETC2055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC2056	Smart Materials and Systems	3	0	0
					P22ETC2057	Introduction to Cyber Security	3	0	0
<b>Note: ETC list shall be defined by the concerned department</b>									

<b>(PLC-I) Programming Language Courses-I</b>					<ul style="list-style-type: none"> <li>• <i>The student has to select one course from the ESC-I group.</i></li> <li>• <i>EEE Students shall opt for any one of the courses from the ESC-I group except, P22ESC2042- Introduction to Electrical Engineering and ECE students shall opt any one of the courses from ESC-I except P22ESC2043 Introduction to Electronics Engineering</i></li> <li>• <i>The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester</i></li> <li>• <i>The students must select one course from either ETC-I or PLC-I group.</i></li> <li>• <i>If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa</i></li> </ul>
Code	Title	L	T	P	
P22PLC2051	Introduction to Web Programming	2	0	2	
P22PLC2052	Introduction to Python Programming	2	0	2	
P22PLC2053	Basics of JAVA programming	2	0	2	
P22PLC2054	Introduction to C++ Programming	2	0	2	



<b>B.E. I – Semester [Physics Group] – Mechanical Engineering Stream</b>											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	ASC P22MAME101	Calculus, Ordinary Differential Equations and Linear Algebra	MA	2	2	2	-	4	50	50	100
2	#ASC P22PHME102	Applied Physics (IC)	PH	2	2	2	-	4	50	50	100
3	ESC P22ESME103	Elements of Mechanical Engineering	AU/IP/ME	2	2	0	-	3	50	50	100
4	ESC P22ESC104X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	ETC P22ETC105X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	PLC P22PLC105X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	AEC P22ENG106	Communicative English - I	Humanities	-	2	-	-	1	50	50	100
7	P22KSK107 / P22KBK107	Sanskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	HSMS P22ICO107	Indian Constitution									
8	AEC/SDC P22IDT108	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	AEC/SDC P22SFH108	Scientific Foundations for Health									
<b>Total</b>								<b>20</b>	<b>400</b>	<b>400</b>	<b>800</b>

**SDA** - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

<p><b>Credit Definition:</b>          1-hour Lecture (L) per week=<b>1Credit</b>          2-hours Tutorial (T) per week=<b>1Credit</b>          2-hours Practical / Drawing (P) per week=<b>1Credit</b>          2-hous Skill Development Actives (SDA) per week = <b>1 Credit</b></p>	<p>04-Credits courses are to be designed for 50 hours of Teaching-Learning Session          04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions          03-Credits courses are to be designed for 40 hours of Teaching-Learning Session          02- Credits courses are to be designed for 25 hours of Teaching-Learning Session          01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions</p>
<p><b>Student's Induction Program:</b> Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXURE I of Induction Programs notification of the University published at the beginning of the 1st semester.</p>	
<p><b>AICTE Activity Points</b> to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points</p>	



(non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-P22PHME102 SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0 ).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

<b>(ESC-I) Engineering Science Courses-I</b>					<b>(ETC-I) Emerging Technology Courses-I</b>				
Code	Title	L	T	P	Code	Title	L	T	P
P22ESC1041	Introduction to Civil Engineering	3	0	0	P22ETC1051	Green Buildings	3	0	0
P22ESC1042	Introduction to Electrical Engineering	3	0	0	P22ETC1052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC1043	Introduction to Electronics Engineering	3	0	0	P22ETC1053	Introduction to Embedded System	3	0	0
P22ESC1044	Introduction to Mechanical Engineering	3	0	0	P22ETC1054	Renewable Energy Sources	3	0	0
P22ESC1045	Introduction to C Programming	2	0	2	P22ETC1055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC1056	Smart Materials and Systems	3	0	0
					P22ETC1057	Introduction to Cyber Security	3	0	0
<b>Note: ETC list shall be defined by the concerned department</b>									

<b>(PLC-I) Programming Language Courses-I</b>					<ul style="list-style-type: none"> <li>• <i>The student has to select one course from the ESC-I group.</i></li> <li>• <i>AU/IP/ME Students shall opt for any one of the courses from the ESC-I group except, P22ESC1044- Introduction to Mechanical Engineering</i></li> <li>• <i>The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester</i></li> <li>• <i>The students must select one course from either ETC-I or PLC-I group.</i></li> <li>• <i>If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa</i></li> </ul>
Code	Title	L	T	P	
P22PLC1051	Introduction to Web Programming	2	0	2	
P22PLC1052	Introduction to Python Programming	2	0	2	
P22PLC1053	Basics of JAVA programming	2	0	2	
P22PLC1054	Introduction to C++ Programming	2	0	2	



<b>B.E. II – Semester [Chemistry Group] – Mechanical Engineering Stream (MES)</b>											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	<b>ASC</b>	Integral Calculus, Partial Differential Equations and Numerical methods	MA	2	2	2	-	4	50	50	100
	P22MAME201										
2	<b>#ASC</b>	Applied Chemistry (IC)	CH	2	2	2	-	4	50	50	100
	P22CHME202										
3	<b>ESC</b>	Computer Aided Engineering Drawing	AU / IP / ME	2	-	2	-	3	50	50	100
	P22CED203										
4	<b>ESC</b>	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
	P22ESC204X										
5	<b>ETC</b>	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	P22ETC205X										
	OR										
	<b>PLC</b>	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
	P22PLC205X										
6	<b>AEC</b>	Communicative English - II	Humanities	-	2	-	-	1	50	50	100
	P22ENG206										
7		Sanskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	P22KSK207 / P22KBK207										
	OR										
	<b>HSMS</b>	Indian Constitution									
	P22ICO207										
8	<b>AEC/SDC</b>	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	P22IDT208										
	OR										
	<b>AEC/SDC</b>	Scientific Foundations for Health									
	P22SFH208										
<b>Total</b>								<b>20</b>	<b>400</b>	<b>400</b>	<b>800</b>

**SDA** - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** – Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

<p><b>Credit Definition:</b> 1-hour Lecture (L) per week=<b>1Credit</b> 2-hours Tutorial (T) per week=<b>1Credit</b> 2-hours Practical / Drawing (P) per week=<b>1Credit</b> 2-hous Skill Development Actives (SDA) per week = <b>1 Credit</b></p>	<p>04-Credits courses are to be designed for 50 hours of Teaching-Learning Session 04-Credits (IC) are to be designed for 40 hours’ theory and 12-14 hours of practical sessions 03-Credits courses are to be designed for 40 hours of Teaching-Learning Session 02- Credits courses are to be designed for 25 hours of Teaching-Learning Session 01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions</p>
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**Student’s Induction Program:** Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students’ character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXURE I of Induction Programs notification of the University published at the beginning of the 1st semester.

**AICTE Activity Points** to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student’s eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the



student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-**P22CHME202** SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0 ).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

<b>(ESC-I) Engineering Science Courses-I</b>					<b>(ETC-I) Emerging Technology Courses-I</b>				
Code	Title	L	T	P	Code	Title	L	T	P
P22ESC2041	Introduction to Civil Engineering	3	0	0	P22ETC2051	Green Buildings	3	0	0
P22ESC2042	Introduction to Electrical Engineering	3	0	0	P22ETC2052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC2043	Introduction to Electronics Engineering	3	0	0	P22ETC2053	Introduction to Embedded System	3	0	0
P22ESC2044	Introduction to Mechanical Engineering	3	0	0	P22ETC2054	Renewable Energy Sources	3	0	0
P22ESC2045	Introduction to C Programming	2	0	2	P22ETC2055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC2056	Smart Materials and Systems	3	0	0
					P22ETC2057	Introduction to Cyber Security	3	0	0
					<b>Note: ETC list shall be defined by the concerned department</b>				

<b>(PLC-I) Programming Language Courses-I</b>					<ul style="list-style-type: none"> <li>• <i>The student has to select one course from the ESC-I group.</i></li> <li>• <i>AU/IP/ME Students shall opt for any one of the courses from the ESC-I group except, P22ESC2044- Introduction to Mechanical Engineering</i></li> <li>• <i>The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester</i></li> <li>• <i>The students must select one course from either ETC-I or PLC-I group.</i></li> <li>• <i>If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa</i></li> </ul>
Code	Title	L	T	P	
P22PLC2051	Introduction to Web Programming	2	0	2	
P22PLC2052	Introduction to Python Programming	2	0	2	
P22PLC2053	Basics of JAVA programming	2	0	2	
P22PLC2054	Introduction to C++ Programming	2	0	2	



<b>B.E. I - Semester [Chemistry Group] - Mechanical Engineering Stream (MES)</b>											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	<b>ASC</b> P22MAME101	Calculus, Ordinary Differential Equations and Linear Algebra	MA	2	2	2	-	4	50	50	100
2	<b>#ASC</b> P22CHME102	Applied Chemistry (IC)	CH	2	2	2	-	4	50	50	100
3	<b>ESC</b> P22CED103	Computer Aided Engineering Drawing	AU / IP / ME	2	-	2	-	3	50	50	100
4	<b>ESC</b> P22ESC104X	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
5	<b>ETC</b> P22ETC105X	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	OR										
	<b>PLC</b> P22PLC105X	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
6	<b>AEC</b> P22ENG106	Communicative English - I	Humanities	-	2	-	-	1	50	50	100
7	P22KSK107 / P22KKBK107	Sanskritika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	<b>HSMS</b> P22ICO107	Indian Constitution									
8	<b>AEC/SDC</b> P22IDT108	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	OR										
	<b>AEC/SDC</b> P22SFH108	Scientific Foundations for Health									
<b>Total</b>								<b>20</b>	<b>400</b>	<b>400</b>	<b>800</b>

**SDA** - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** - Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** - Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

<p><b>Credit Definition:</b>          1-hour Lecture (L) per week=<b>1Credit</b>          2-hours Tutorial (T) per week=<b>1Credit</b>          2-hours Practical / Drawing (P) per week=<b>1Credit</b>          2-hous Skill Development Actives (SDA) per week = <b>1 Credit</b></p>	<p>04-Credits courses are to be designed for 50 hours of Teaching-Learning Session          04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions          03-Credits courses are to be designed for 40 hours of Teaching-Learning Session          02- Credits courses are to be designed for 25 hours of Teaching-Learning Session          01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions</p>
<p><b>Student's Induction Program:</b> Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXURE I of Induction Programs notification of the University published at the beginning of the 1st semester.</p>	
<p><b>AICTE Activity Points</b> to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points</p>	



(non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-**P22CHME102** SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0 ).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

<b>(ESC-I) Engineering Science Courses-I</b>					<b>(ETC-I) Emerging Technology Courses-I</b>				
Code	Title	L	T	P	Code	Title	L	T	P
P22ESC1041	Introduction to Civil Engineering	3	0	0	P22ETC1051	Green Buildings	3	0	0
P22ESC1042	Introduction to Electrical Engineering	3	0	0	P22ETC1052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC1043	Introduction to Electronics Engineering	3	0	0	P22ETC1053	Introduction to Embedded System	3	0	0
P22ESC1044	Introduction to Mechanical Engineering	3	0	0	P22ETC1054	Renewable Energy Sources	3	0	0
P22ESC1045	Introduction to C Programming	2	0	2	P22ETC1055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC1056	Smart Materials and Systems	3	0	0
					P22ETC1057	Introduction to Cyber Security	3	0	0
<b>Note: ETC list shall be defined by the concerned department</b>									

<b>(PLC-I) Programming Language Courses-I</b>				
Code	Title	L	T	P
P22PLC1051	Introduction to Web Programming	2	0	2
P22PLC1052	Introduction to Python Programming	2	0	2
P22PLC1053	Basics of JAVA programming	2	0	2
P22PLC1054	Introduction to C++ Programming	2	0	2

- *The student has to select one course from the ESC-I group.*
- *AU/IP/ME Students shall opt for any one of the courses from the ESC-I group except, P22ESC1044- Introduction to Mechanical Engineering*
- *The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester*
- *The students must select one course from either ETC-I or PLC-I group.*
- *If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa*



<b>B.E. II – Semester [Physics Group] – Mechanical Engineering Stream</b>											
Sl. No.	Course & Course Code	Course Title	Teaching Department	Hrs / Week				Credits	Examination Marks		
				L	T	P	SDA		CIE	SEE	Total
1	<b>ASC</b>	Integral Calculus, Partial Differential Equations and Numerical methods	MA	2	2	2	-	4	50	50	100
	P22MAME201										
2	<b>#ASC</b>	Applied Physics (IC)	PH	2	2	2	-	4	50	50	100
	P22PHME202										
3	<b>ESC</b>	Elements of Mechanical Engineering	AU/IP/ME	2	2	0	-	3	50	50	100
	P22ESME203										
4	<b>ESC</b>	Engineering Science Course-I	Respective Engg. Dept	3	-	-	-	3	50	50	100
	P22ESC204X										
5	<b>ETC</b>	Emerging Technology Course-I	Any Engg. Dept	3	-	-	-	3	50	50	100
	P22ETC205X										
	OR										
	<b>PLC</b>	Programming Languages Course-I (IC)		2	-	2	-	3	50	50	100
	P22PLC205X										
6	<b>AEC</b>	Communicative English - II	Humanities	-	2	-	-	1	50	50	100
	P22ENG206										
7	P22KSK207 / P22KBK207	Sanskrutika Kannada/ Balake Kannada	Humanities	-	2	-	-	1	50	50	100
	OR										
	<b>HSMS</b>	Indian Constitution									
P22ICO207											
8	<b>AEC/SDC</b>	Innovation and Design Thinking	Any Dept	-	2	-	-	1	50	50	100
	P22IDT208										
	OR										
	<b>AEC/SDC</b>	Scientific Foundations for Health									
	P22SFH208										
<b>Total</b>								<b>20</b>	<b>400</b>	<b>400</b>	<b>800</b>

**SDA** - Skill Development Activities, **ASC** - Applied Science Course, **ESC** - Engineering Science Courses, **ETC** - Emerging Technology Course, **AEC** - Ability Enhancement Course, **HSMS** - Humanity and Social Science and management Course, **CIE** - Continuous Internal Evaluation, **SEE** - Semester End Examination, **IC** - Integrated Course (Theory Course Integrated with Practical Course), **SDC** - Skill Development Course

<p><b>Credit Definition:</b>          1-hour Lecture (L) per week=<b>1Credit</b>          2-hours Tutorial (T) per week=<b>1Credit</b>          2-hours Practical / Drawing (P) per week=<b>1Credit</b>          2-hous Skill Development Actives (SDA) per week = <b>1 Credit</b></p>	<p>04-Credits courses are to be designed for 50 hours of Teaching-Learning Session          04-Credits (IC) are to be designed for 40 hours' theory and 12-14 hours of practical sessions          03-Credits courses are to be designed for 40 hours of Teaching-Learning Session          02- Credits courses are to be designed for 25 hours of Teaching-Learning Session          01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions</p>
<p><b>Student's Induction Program:</b> Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXURE I of Induction Programs notification of the University published at the beginning of the 1st semester.</p>	
<p><b>AICTE Activity Points</b> to be earned by students admitted to BE/ B.Tech., / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of</p>	





entry to VTU. The Activity Points earned shall be reflected on the student’s eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours’ requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

#-P22PHME202 SEE shall have the 03 hours of theory examination and 03 hours of practical examination **ESC** or **ETC** of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required practical learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0 ).

All **01 Credit- courses** shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ.

<b>(ESC-I) Engineering Science Courses-I</b>					<b>(ETC-I) Emerging Technology Courses-I</b>				
Code	Title	L	T	P	Code	Title	L	T	P
P22ESC2041	Introduction to Civil Engineering	3	0	0	P22ETC2051	Green Buildings	3	0	0
P22ESC2042	Introduction to Electrical Engineering	3	0	0	P22ETC2052	Operation and Maintenance of Solar Electric Systems	3	0	0
P22ESC2043	Introduction to Electronics Engineering	3	0	0	P22ETC2053	Introduction to Embedded System	3	0	0
P22ESC2044	Introduction to Mechanical Engineering	3	0	0	P22ETC2054	Renewable Energy Sources	3	0	0
P22ESC2045	Introduction to C Programming	2	0	2	P22ETC2055	Introduction to Internet of Things (IOT)	3	0	0
					P22ETC2056	Smart Materials and Systems	3	0	0
					P22ETC2057	Introduction to Cyber Security	3	0	0
<b>Note: ETC list shall be defined by the concerned department</b>									

<b>(PLC-I) Programming Language Courses-I</b>					<ul style="list-style-type: none"> <li>• <i>The student has to select one course from the ESC-I group.</i></li> <li>• <i>AU/IP/ME Students shall opt for any one of the courses from the ESC-I group except, P22ESC2044- Introduction to Mechanical Engineering</i></li> <li>• <i>The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester</i></li> <li>• <i>The students must select one course from either ETC-I or PLC-I group.</i></li> <li>• <i>If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa</i></li> </ul>
Code	Title	L	T	P	
P22PLC2051	Introduction to Web Programming	2	0	2	
P22PLC2052	Introduction to Python Programming	2	0	2	
P22PLC2053	Basics of JAVA programming	2	0	2	
P22PLC2054	Introduction to C++ Programming	2	0	2	



**III SEMESTER B.E. AUTOMOBILE ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1	P21MA301	Transform and Numerical Analysis	3
2	P21AU302	Engineering Thermodynamics	3
3	P21AU303	Fluid Mechanics & Machinery	3
4	P21AU304	Manufacturing Process - I	4
5	P21AU305	Material Science & Metallurgy	4
6	P21AUL306	Computer Aided Machine Drawing (CAMD) Professional Core Course Laboratory	1
7	P21KSK307	Samskrutika Kannada /	1
	P21KBK307	Balake Kannada	
	P21CIP307	Constitution of India and Professional Ethics	
8	P21HSMC308	Employability Enhancement Skills - III	1
9.	P21AEC309	Innovation and Design Thinking	1
10	P21MDIP301	Basic Engineering Mathematics - I	0
11	P21HDIP308	Employability Enhancement Skills - I	0

**III SEMESTER B.E. CIVIL ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1	P21MA301	Transform and Numerical Analysis	3
2	P21CV302	Building Materials and Construction	3
3	P21CV303	Concrete Technology	3
4	P21CV304	Fluid Mechanics & Hydraulics	4
5	P21CV305	Strength of Materials	4
6	P21CVL306	Computer Aided Building Planning and Drawing	1
7	P21KSK307	Samskrutika Kannada /	1
	P21KBK307	Balake Kannada	
	P21CIP307	Constitution of India and Professional Ethics	
8	P21HSMC308	Employability Enhancement Skills - III	1
9.	P21AEC309	Innovation and Design Thinking	1
10	P21MDIP301	Basic Engineering Mathematics - I	0
11	P21HDIP308	Employability Enhancement Skills - I	0



**III SEMESTER B.E. COMPUTER SCIENCE AND ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1	P21MA301	Transform and Numerical Analysis	3
2	P21CS302	Data Structures	3
3	P21CS303	Computer Organization	3
4	P21CS304	Digital Logic Design	4
5	P21CS305	OOP's with JAVA	4
6	P21CSL306	Data Structures Laboratory	1
7	P21KSK307	Samskrutika Kannada /	1
	P21KBK307	Balake Kannada	
	P21CIP307	Constitution of India and Professional Ethics	1
8	P21HSMC308	Employability Enhancement Skills - III	1
9	P21AEC309	Innovation and Design Thinking	1
10	P21MDIP301	Basic Engineering Mathematics - I	0
11	P21HDIP308	Employability Enhancement Skills - I	0

**III SEMESTER B.E. ELECTRONICS AND COMMUNICATION ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1	P21MA301	Transform and Numerical Analysis	3
2	P21EC302	Linear Integrated Circuits	3
3	P21EC303	Circuit Theory	3
4	P21EC304	Digital Logic design	4
5	P21EC305	Signals and Systems	4
6	P21ECL306	Linear Integrated Circuits Laboratory	1
7	P21KSK307	Samskrutika Kannada /	1
	P21KBK307	Balake Kannada	
	P21CIP307	Constitution of India and Professional Ethics	1
8	P21HSMC308	Employability Enhancement Skills - III	1
9.	P21AEC309	Innovation and Design Thinking	1
10	P21MDIP301	Basic Engineering Mathematics - I	0
11	P21HDIP308	Employability Enhancement Skills - I	0



**III SEMESTER B.E. ELECTRICAL AND ELECTRONICS ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1	P21MA301	Transform and Numerical Analysis	3
2	P21EE302	Electrical circuit Analysis	3
3	P21EE303	Transformer and Induction Machines	3
4	P21EE304	Digital Systems (Integrated)	4
5	P21EE305	AEC and LIC (Integrated)	4
6	P21EEL306	AC Machines Lab oratory	1
7	P21KSK307	Samskrutika Kannada /	1
	P21KBK307	Balake Kannada	
	P21CIP307	Constitution of India and Professional Ethics	1
8	P21HSMC308	Employability Enhancement Skills-III	1
9.	P21AEC309	Innovation and Design Thinking	1
10	P21MDIP301	Basic Engineering Mathematics - I	0
11	P21HDIP308	Employability Enhancement Skills-I	0

**III SEMESTER B.E. INDUSTRIAL AND PRODUCTION ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1	P21MA301	Transform and Numerical Analysis	3
2	P21IP302	Engineering Thermodynamics	3
3	P21IP303	Fluid Mechanics & Machinery	3
4	P21IP304	Manufacturing Process - I	4
5	P21IP305	Material Science & Metallurgy	4
6	P21IPL306	Computer Aided Machine Drawing (CAMD) Professional Core Course Laboratory	1
7	P21KSK307	Samskrutika Kannada /	1
	P21KBK307	Balake Kannada	
	P21CIP307	Constitution of India and Professional Ethics	1
8	P21HSMC308	Employability Enhancement Skills - III	1
9.	P21AEC309	Innovation and Design Thinking	1
10	P21MDIP301	Basic Engineering Mathematics - I	0
11	P21HDIP308	Employability Enhancement Skills-I	0



**III SEMESTER B.E. INFORMATION SCIENCE ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1	P21MA301	Transform and Numerical Analysis	3
2	P21IS302	Data Structures	3
3	P21IS303	Computer Organization	3
4	P21IS304	Digital Logic Design	4
5	P21IS305	OOP's with JAVA	4
6	P21ISL306	Data Structures Laboratory	1
	P21KSK307	Sanskritika Kannada/	1
	P21KBK307	Balake Kannada	
7	P21CIP307	Constitution of India and Professional Ethics	1
8	P21HSMC308	Employability Enhancement Skills-III	1
9	P21AEC309	Innovation and Design Thinking	1
10	P21MDIP301	Basic Engineering Mathematics - I	0
11	P21HDIP308	Employability Enhancement Skills-I	0

**III SEMESTER B.E. MECHANICAL ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1	P21MA301	Transform and Numerical Analysis	3
2	P21ME302	Basic Thermodynamics	3
3	P21ME303	Fluid Mechanics & Machinery	3
4	P21ME304	Manufacturing Process - I	4
5	P21ME305	Material Science & Metallurgy	4
6	P21MEL306	Computer Aided Machine Drawing	1
	P21KSK307	Sanskritika Kannada /	1
	P21KBK307	Balake Kannada	
7	P21CIP307	Constitution of India and Professional Ethics	1
8	P21HSMC308	Employability Enhancement Skills - III	1
9.	P21AEC309	Innovation and Design Thinking	1
10	P21MDIP301	Basic Engineering Mathematics - I	0
11	P21HDIP308	Employability Enhancement Skills - I	0



**V SEMESTER B.E. AUTOMOBILE ENGINEERING**

Sl. No.	Course Code	Course Name	Credits
1	P18 AU 51	Industrial Management and Entrepreneurship	4
2	P18 AU 52	Design of Machine Elements- II	4
3	P18 AU 53	Automotive Fuels and Combustion	4
4	P18 AU 54	Auxiliary Systems of Automotive Engines	4
5	P18 AU 55X	<b>Professional Elective - I</b>	3
6	P18 AUL 56	Fuel Testing and Measurement Lab	1.5
7	P18 AUL 57	Engine and Components Lab	1.5
8	P18 AU L58	Skill Oriented Lab- I (Computer Aided M/c Drawing-3D)	1
9	P18AU591	Technical Skills – I (Simulation Lab)	1
10	P18 HU 510	Aptitude and Reasoning Development- Advance(ARDA)	1

Professional Elective – I			Technical Skills		
Sl. No	Course Code	Course title	Sl. No	Course Code	Course title
1.	P18AU551	Advanced Engine Technology	1.	P18AU591	(Simulation Lab)
2.	P18AU552	Production of Automotive Components			
3.	P18AU553	Micro controller & Embedded System			
4.	P18AU554	Non Traditional Machining			



**V SEMESTER B.E. CIVIL ENGINEERING**

Sl. No.	Course Code	Course Name	Credits
1	P18CV51	Construction Management & Entrepreneurship	4
2	P18CV52	Water Supply and Treatment	4
3	P18CV53	Analysis of Indeterminate Structures	4
4	P18CV54	Design of RC Structural Elements	4
5	P18CV55X	Professional Elective -I	3
6	P18CVL56	Concrete Laboratory	1.5
7	P18CVL57	Highway Laboratory	1.5
8	P18CVL58	Skill Oriented Laboratory - I (Competency in Survey & Analysis Software)	1
9	P18CV591	Technical Skills - I (Proficiency in Civil Engineering)	1
10	P18HU510	Aptitude and Reasoning Development - Advance(ARDI)	1

Professional Elective -I			Technical Skills -I		
Sl. no	Course Code	Course Title	Sl. No	Course Code	Course Title
1	P18CV551	Applied Geology	1	P18CV591	Proficiency in Civil Engineering
2	P18CV552	Matrix Method of Structural Analysis			
3	P18CV553	Construction Quality and Safety Management.			
4	P18CV554	Pavement Evaluation & Management			



**V SEMESTER B.E. COMPUTER SCIENCE AND ENGINEERING**

Sl. No.	Course Code	Course Name	Credits
1	P18CS51	Management and Entrepreneurship	4
2	P18CS52	Operating System	4
3	P18CS53	Computer Networks	4
4	P18CS54	Software Engineering	4
5	P18CS55X	Professional Elective - I	3
6	P18CSL56	AVR Micro Controller Laboratory	1.5
7	P18CSL57	Networks Laboratory	1.5
8	P18CSL58	Skill Oriented Laboratory - I (Android Application Development Laboratory)	1
9	P18CS591	Technical Skills-I (Android Application Development)	1
10	P18HU510	Aptitude and Reasoning Development – Advance (ARDI)	1

<b>Professional Elective - I</b>		
Sl. No	Course Code	Course title
1.	P18CS551	Advanced Java
2.	P18CS552	Web Technologies
3.	P18CS553	Artificial Intelligence
4.	P18CS554	Data Mining & Ware Housing





**V SEMESTER B.E. ELECTRONICS AND COMMUNICATION ENGINEERING**

Sl. No.	Course Code	Course Name	Credits
1	P18EC51	Innovation, Entrepreneurship and Management	4
2	P18EC52	Digital CMOS VLSI Design (CC-1)	4
3	P18EC53	Information Theory Coding and Cryptography (CC-2)	4
4	P18EC54	Optical Communication Systems and Networks (CC-3)	4
5	P18EC55X	Professional Elective - I	3
6	P18ECL56	Digital Signal Processing Laboratory	1.5
7	P18ECL57	Analog and Digital Communication Laboratory	1.5
8	P18ECL58	Skill Oriented Laboratory - 1	1
9	P18EC59X	Technical Skills - I	1
10	P18HU510	Aptitude and Reasoning Development - Advance (ARDI)	1

<b>Professional Elective - I</b>		
Sl. No.	Course Code	Course Title
1	P18EC551	Fundamentals of Object Oriented Language and Database Concepts
2	P18EC552	DSP Processor and Applications
3	P18EC553	ARM Processor
4	P18EC554	Adaptive Signal Processing
5	P18EC555	Cognitive Radio Networks
<b>Technical Skills - I</b>		
Sl. No.	Course Code	Course Title
1	P18EC591	Embedded System and IOT
2	P18EC592	System Verilog
3	P18EC593	Java and Web Technologies



**V SEMESTER B.E. ELECTRICAL AND ELECTRONICS ENGINEERING**

Sl. No.	Course Code	Course Name	Credits
1	P18EE51	Management and Entrepreneurship	4
2	P18EE52	Power Electronics	4
3	P18EE53	Linear Control Systems	4
4	P18EE54	Electrical Machines-II	4
5	P18EE55X	Professional Elective - I	3
6	P18EEL56	Power Electronics Lab	1.5
7	P18EEL57	Electrical Machines Lab - II	1.5
8	P18EEL58	Skill Oriented Laboratory - IMATLAB & Simulink	1
9	P18EE591	Technical Skills - I MATLAB programming	1
10	P18HU510	Aptitude and Reasoning Development - Advance (ARDI)	1

Professional Elective - I			Technical Skills - I		
Sl. No	Course Code	Course title	Sl. No	Course Code	Course title
1.	P18EE551	Power Transmission and Distribution	1.	P18EE591	MATLAB programming
2.	P18EE552	Illumination Engineering	2.	P18EE592	C ++ Programming
3.	P18EE553	Fuzzy Logic	3.	P18EE593	Software Engineering
4.	P18EE554	Data communication and networking	4.	P18EE594	Hybrid Electric Vehicles



**V SEMESTER B.E. INDUSTRIAL AND PRODUCTION ENGINEERING**

Sl. No.	Course Code	Course Name	Credits
1	P18IP51	Management and Entrepreneurship	4
2	P18IP52	Work Study and Ergonomics	4
3	P18IP53	Design of Machine Elements	4
4	P18IP54	Theory of Metal Cutting	4
5	P18IP55X	Professional Elective - I	3
6	P18IPL56	Mechanical Engineering Lab	1.5
7	P18IPL57	Computer Aided Drafting and Geometric Modelling Lab	1.5
8	P18IPL58	Skill Oriented Laboratory-I (Advanced Geometric Modelling -I)	1
9	P18IP591	Technical Skills – I (Basic Managerial Skills)	1
10	P18HU510	Aptitude and Reasoning Development - Advance (ARDI)	1

Professional Elective-I		
Sl. No	Course Code	Course title
1	P18IP551	Composite Materials
2	P18IP552	Industrial Robotics
3	P18IP553	Computer Integrated Manufacturing
4	P18IP554	Modern Machining Methods

Technical Skills - I		
Sl. No	Course Code	Course title
1	P18IP591	Basic Managerial Skills
2	P18IP592	Communication and Group Discussion Skills
3	P18IP593	Creativity and Problem Solving Skills
4	P18IP594	Interpersonal Skills



**V SEMESTER B.E. INFORMATION SCIENCE AND ENGINEERING**

Sl. No.	Course Code	Course Name	Credits
1	P18IS61	Machine Learning	4
2	P18IS62	Object Oriented System Development	4
3	P18IS63	Internet of Things	4
4	P18IS64X	Professional Elective-II	4
5	P18ISO65X	Open Elective -I	3
6	P18ISL66	Machine Learning Lab	1.5
7	P18ISL67	IoT Laboratory	1.5
8	P18ISL68	Skill Oriented Lab-II (Mobile Application Development Lab)	1
9	P18HU691	Technical Skills-II (Internals of C Programming)	1

<b>List of Electives</b>					
<b>Professional Elective -II</b>			<b>Open Elective - I</b>		
Sl. No	Course Code	Course title	Sl. No.	Course Code	Course title
1	P18IS641	Cloud Computing	1	P18ISO651	Python Programming
2	P18IS642	Compiler Design	2	P18ISO652	Internet Programming
3	P18IS643	Web Technologies	3	P18ISO653	Database Management System
4	P18IS644	Supply Chain Management	4	P18ISO654	Data Structures



**V SEMESTER B.E. MECHANICAL ENGINEERING**

Sl. No.	Course Code	Course Name	Credits
1	P18ME51	Management and Entrepreneurship	4
2	P18ME52	Dynamics of Machinery	4
3	P18ME53	Design of Machine Elements-I	4
4	P18ME54	Turbo machines	4
5	P18ME55X	Professional Elective-I	3
6	P18MEL56	Machine shop	1.5
7	P18MEL57	I C Engine & Fluid Machinery Lab	1.5
8	P18MEL58	Material Processing Lab (Skill Oriented Laboratory-I)	1
9	P18ME591	Technical Skills-I(Problem Solving Skill for Competitive Examinations)	1
10	P18HU510	Aptitude and Reasoning Development-Advanced. (ARDA)	1

<b>Professional Elective-I</b>		
Sl. No	Course Code	Course title
1.	P18ME551	CAD/CAM
2.	P18ME552	Engineering Economics
3.	P18ME553	Mechatronics & Microprocessor
4.	P18ME554	Industrial Automation



**VII SEMESTER B.E. AUTOMOBILE ENGINEERING**

Sl. No.	Course Code	Course Name	Credits
1	P18AU71	Mechanical Vibrations	4
2	P18AU72	Vehicle body Engineering and safety	4
3	P18AU73	Automotive air Pollution and control	4
4	P18AU74X	Professional Elective-III	3
5	P18AU075X	Open Elective-II	3
6	P18AUL76	Automotive Testing and Servicing Laboratory	1.5
7	P18AUL77	Diagnosis and Reconditioning Laboratory	1.5
8	P18AU78	Project Work Phase-I	2

List of Electives					
Professional Elective-III			Open Elective-II		
Sl. No	Course Code	Course Title	Sl No	Course Code	Course Code
1	P18AU741	Electric Hybrid Vehicles	1	P18AU0751	Automotive Chassis & Transmission
2	P18AU742	Transport Management & Motor Vehicle Act			
3	P18AU743	Tyre Technology			
4	P18AU744	Finite Element Method			



**VII SEMESTER B.E. CIVIL ENGINEERING**

Sl. No	Course Code	Course Name	Credits
1	P18CV71	Quantity surveying and Contract Management	04
2	P18CV72	Design of Steel Structures	04
3	P18CV73	Applied Geotechnical Engineering	04
4	P18CV74X	Professional elective	03
5	P18CV75X	Open Elective -II	03
6	P18CVL76	Environmental Engineering laboratory	1.5
7	P18CVL77	CAD Laboratory - II	1.5
8	P18CV78	Project Work Phase – I and Project seminar	2

List of Electives					
Professional Elective - III			Open Elective - II		
Sl.no	Course Code	Course Title	Sl.no	Course Code	Course Title
1	P18CV741	Design of Bridges	1	P18CV0751	Environmental Impact Assessment
2	P18CV742	Prefabricated structures	2	P18CV0752	Atmospheric Environmental Pollution and Control
3	P18CV743	Open Channel Hydraulics	3	P18CV0753	Building services
4	P18CV744	Advanced Foundation Design	4	P18CV0754	Remote Sensing and introduction to Geoinformatics



**VII SEMESTER B.E. COMPUTER SCIENCE AND ENGINEERING**

Sl. No.	Course Code	Course Name	Credits
1	P18CS71	Machine Learning	4
2	P18CS72	Multicore Architecture & Parallel Programming	4
3	P18CS73	Cryptography & Network Security	4
4	P18CS74X	Professional Elective - III	3
5	P18CS075X	Open Elective - II	3
6	P18CSL76	Parallel Programming Laboratory	1.5
7	P18CSL77	Machine Learning Laboratory	1.5
8	P18CS78	Project Work Phase – I and Project seminar	2

<b>List of Electives</b>					
<b>Professional Elective - III</b>			<b>Open Elective - II</b>		
Sl. No	Course Code	Course title	Sl. No.	Course Code	Course title
1.	P18CS741	Full Stack Development with MERN	1.	P18CS0751	OOPS With Java
2.	P18CS742	Managing Big Data	2.	P18CS0752	Mobile Application Development
3.	P18CS743	Wireless Sensor Network	3.	P18CS0753	Data Analytics
4.	P18CS744	Cyber Security	4.	P18CS0754	Artificial Intelligence





**VII SEMESTER B.E. ELECTRONICS AND COMMUNICATION ENGINEERING**

Sl. No.	Course Code	Course Name	Credits
1	P18EC71	Computer Communication Networks (CC-1)	4
2	P18EC72	Fundamentals of Wireless Communication (CC-2)	4
3	P18EC73	Embedded System and IOT (CC-3)	4
4	P18EC74	Professional Elective - III	3
5	P18EC75	Open Elective - II	3
6	P18ECL76	Advanced Communication lab	1.5
7	P18ECL77	Embedded system and IoT Lab	1.5
8	P18EC78	Project Work Phase – I and Project seminar	2

List of Electives					
Professional Elective - III			Open Elective – II		
Sl. No	Course Code	Course Title	Sl. No.	Course Code	Course Title
1.	P18EC741	Wireless Sensor Networks and Technology	1.	P18EC0751	Data Acquisition and Instrumentation
2.	P18EC742	Low Power VLSI Design	2.	P18EC0752	Embedded Systems
3.	P18EC743	Artificial Intelligence and Machine Learning	3.	P18EC0753	Internet of Things and Applications
4.	P18EC744	Avionics	4.	P18EC0754	Introduction to Image Processing
5.	P18EC745	Network Security			



**VII SEMESTER B.E. ELECTRICAL AND ELECTRONICS ENGINEERING**

Sl. No.	Course Code	Course Name	Credits
1	P18EE71	Computer Techniques In Power System	4
2	P18EE72	High Voltage Engineering	4
3	P18EE73	AC & DC Drives	4
4	P18EE74X	Professional Elective – III	3
5	P18EE75X	Open Elective – II	3
6	P18EEL76	High Voltage laboratory	1.5
7	P18EEL77	Power system simulation laboratory	1.5
8	P18EE78	Project Work Phase – I and Project seminar	2

List of Electives					
Professional Elective – III			Open Elective – II		
Sl. No	Course Code	Course title	Sl. No.	Course Code	Course title
1.	P18EE741	Flexible AC Transmission Systems	1.	P18EE 0751	Utilization of Electrical Power
2.	P18EE742	Testing & Commissioning of Electrical Equipment	2.	P18EE0752	Renewable Energy Sources
3.	P18EE743	Electrical Power Utilization	3.	P18EE0753	Hybrid Electric Vehicles
4.	P18EE744	Artificial Neural Network and Artificial Intelligence	4.	P18EE0754	Automation Engineering



**VII SEMESTER B.E. INDUSTRIAL AND PRODUCTION ENGINEERING**

Sl. No.	Course Code	Course Name	Credits
1	P18IP71	Supply Chain Management	4
2	P18IP72	Additive Manufacturing	4
3	P18IP73	Operations Research	4
4	P18IP74X	Professional Elective - III	3
5	P18IP075X	Open Elective-I I	3
6	P18IPL76	CNC & Robotics Laboratory	1.5
7	P18IPL77	Machine Tools Testing and Design Laboratory	1.5
8	P18IP78	Project Work Phase-I and Project Seminar	2

List of Electives					
Professional Elective - III			Open Elective - II		
Sl. No	Course Code	Course title	Sl. No.	Course Code	Course title
1	P18IP741	Operations Management	1.	P18IP0751	Just In Time Manufacturing
2	P18IP742	Product Design and Manufacturing	2.	P18IP0752	Database Management System
3	P18IP743	Concurrent Engineering	3.	P18IP0753	Project Management
4	P18IP744	Materials Management	4.	P18IP0754	Production Planning & Control.



**VII SEMESTER B.E. INFORMATION SCIENCE AND ENGINEERING**

Sl. No.	Course Code	Course Name	Credits
1	P18IS71	Data Science	4
2	P18IS72	Information and Network Security	4
3	P18IS73	Cyber Security	4
4	P18IS74X	Professional Elective - III	3
5	P18IS075X	Open Elective - II	3
6	P18ISL76	Data Science Laboratory	1.5
7	P18ISL77	Devops Laboratory	1.5
8	P18IS78	Project Work Phase - I and Project seminar	2

List of Electives					
Professional Elective - III			Open Elective -II		
Sl. No	Course Code	Course title	Sl. No.	Course Code	Course title
1.	P18IS741	Augmented and Virtual Reality	1.	P18IS0751	Foundations of IT
2.	P18IS742	Software Project Management	2.	P18IS0752	Software Engineering
3.	P18IS743	Distributed Systems	3.	P18IS0753	Machine Learning
4.	P18IS744	Block Chain Technology	4.	P18IS0754	Robotic Process Automation



**VII SEMESTER B.E. MECHANICAL ENGINEERING**

Sl. No.	Course Code	Course Name	Credits
1.	P18ME71	Automatic Control Engineering	4
2.	P18ME72	Mechanical Vibrations	4
3.	P18ME73	Production Management	4
4.	P18ME74x	Professional Elective-III	3
5.	P18ME075x	Open Elective-II	3
6.	P18MEL76	Design Laboratory	1.5
7.	P18MEL77	Simulations Laboratory	1.5
8.	P18ME78	Project Work Phase - I and seminar	2

<b>List of Electives</b>					
<b>Professional Elective-III</b>			<b>Open Elective - II</b>		
Sl. No.	Course Code	Course title	Sl. No.	Course Code	Course title
1.	P18ME741	Power Plant Engineering	1.	P18ME0751	Total Quality Management
2.	P18ME742	Hydraulics and Pneumatics	2.	P18ME0752	Operations Research
3.	P18ME743	Theory of Plasticity	3.	P18ME0753	Renewable Energy Technology
4.	P18ME744	Gas Turbines and Jet Propulsion	4.	P18ME0754	Finite Element Method in Engineering



**IV SEMESTER B.E. AUTOMOBILE ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1	P21MA401A	Applied Mathematical Methods	3
2	P21AU402	Theory of machines	3
3	P21AU403	Mechanics of Materials (MOM)	3
4	P21AU404	Manufacturing Process - II	4
5	P21AU405	Mechanical Measurements and Metrology (MMM)	4
6	P21AUL406	Fluid Mechanics and Machinery Professional Core Course Laboratory	1
7	P21KSK407	Sanskritika Kannada /	1
	P21KBK407	Balake Kannada	
	P21CIP407	Constitution of India and Professional Ethics	1
8	P21HSMC408	Employability Enhancement Skills - IV	1
9.	P21INT409	Internship - I	1
10	P21MDIP401	Basic Engineering Mathematics - II	0
11	P21HDIP408	Employability Enhancement Skills - II	0

**IV SEMESTER B.E. CIVIL ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1	P21MA401A	Applied Mathematical Methods	3
2	P21CV402	Analysis of Structures	3
3	P21CV403	Hydrology and Irrigation Engineering	3
4	P21CV404	Geodetic Engineering (Integrated)	4
5	P21CV405	Public Health Engineering (Integrated)	4
6	P21CVL406	Concrete and Non-Destructive Testing Laboratory	1
7	P21KSK407	Sanskritika Kannada /	1
	P21KBK407	Balake Kannada	
	P21CIP407	Constitution of India and Professional Ethics	1
8	P21HSMC408	Employability Enhancement Skills - IV	1
9	P21INT409	Internship - I	1
10	P21MDIP401	Basic Engineering Mathematics - II	0
11	P21HDIP408	Employability Enhancement Skills - II	0



**IV SEMESTER B.E. COMPUTER SCIENCE AND ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1.	P21MA401B	Applied Mathematical Methods	3
2.	P21CS402	Theory of Computation	3
3.	P21CS403	Design & Analysis of Algorithms	3
4.	P21CS404	Database Management System	4
5.	P21CS405	AVR Micro Controller	4
6.	P21CSL406	Design & Analysis of Algorithms Laboratory	1
7.	P21KSK407	Sanskritika Kannada /	1
	P21KKB407	Balake Kannada	
	P21CIP407	Constitution of India and Professional Ethics	
8.	P21HSMC408	Employability Enhancement Skills - IV	1
9.	P21INT409	Internship - I	1
10.	P21MDIP401	Basic Engineering Mathematics - II	0
11.	P21HDIP408	Employability Enhancement Skills - II	0

**IV SEMESTER B.E. ELECTRONICS AND COMMUNICATION ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1	P21MA401B	Applied Mathematical Methods	3
2	P21EC402	Analog and Digital Communication	3
3	P21EC403	Electromagnetic field theory	3
4	P21EC404	Digital Design Using Verilog HDL	4
5	P21EC405	Microcontroller	4
6	P21ECL406	Analog and Digital Communication Laboratory	1
7.	P21KSK407	Sanskritika Kannada /	1
	P21KKB407	Balake Kannada	
	P21CIP407	Constitution of India and Professional Ethics	
8	P21HSMC408	Employability Enhancement Skills - IV	1
9.	P21INT409	Internship - I	1
10	P21MDIP401	Basic Engineering Mathematics - II	0
11	P21HDIP408	Employability Enhancement Skills - II	0



**IV SEMESTER B.E. ELECTRICAL AND ELECTRONICS ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1.	P21MA401B	Applied Mathematical Methods	3
2.	P21EE402	Electrical Power Generation, Transmission & Distribution	3
3.	P21EE403	DC and Synchronous Machines	3
4.	P21EE404	Microcontroller (Integrated)	4
5.	P21EE405	Signals and Digital Signal Processing (Integrated)	4
6.	P21EEL406	DC Machines Lab oratory	1
7.	P21KSK407	Samskrutika Kannada	1
	P21KBK407	Balake Kannada	
	P21CIP407	Constitution of India and Professional Ethics	
8.	P21HSMC408	Employability Enhancement Skills-IV	1
9.	P21INT409	Internship-I	1
10.	P21MDIP401	Basic Engineering Mathematics - II	0
11.	P21HDIP408	Employability Enhancement Skills-II	0

**IV SEMESTER B.E. INDUSTRIAL AND PRODUCTION ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1	P21MA401A	Applied Mathematical Methods	3
2	P21IP402	Theory of machines	3
3	P21IP403	Mechanics of Materials (MOM)	3
4	P21IP404	Manufacturing Process – II	4
5	P21IP405	Mechanical Measurements and Metrology (MMM)	4
6	P21IPL406	Fluid Mechanics and Machinery Professional Core Course Laboratory	1
7	P21KSK407	Samskrutika Kannada /	1
	P21KBK407	Balake Kannada	
	P21CIP407	Constitution of India and Professional Ethics	
8	P21HSMC408	Employability Enhancement Skills - IV	1
9.	P21INT409	Internship – I	1
10.	P21MDIP401	Basic Engineering Mathematics - I	0
11.	P21HDIP408	Employability Enhancement Skills - I	0





**IV SEMESTER B.E. INFORMATION SCIENCE AND ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1.	P21MA401B	Applied Mathematical Methods	3
2.	P21IS402	Theory of Computation	3
3.	P21IS403	Design and Analysis of Algorithms	3
4.	P21IS404	Database Management System	4
5.	P21IS405	Operating Systems	4
6.	P21ISL406	Design and Analysis of Algorithms Laboratory	1
7.	P21KSK407	Sanskritika Kannada/	1
	P21KBK407	Balake Kannada	
	P21CIP407	Constitution of India and Professional Ethics	
8.	P21HSMC408	Employability Enhancement Skills-IV	1
9.	P21INT409	Internship-I	1
10.	P21MDIP401	Basic Engineering Mathematics - II	0
11.	P21HDIP408	Employability Enhancement Skills - II	0

**IV SEMESTER B.E. MECHANICAL ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1	P21MA401A	Applied Mathematical Methods	3
2	P21ME402	Applied Thermodynamics	3
3	P21ME403	Mechanics of Materials (MOM)	3
4	P21ME404	Manufacturing Process - II	4
5	P21ME405	Mechanical Measurements and Metrology (MMM)	4
6	P21MEL406	Fluid Mechanics and Machinery Laboratory	1
7	P21KSK407	Sanskritika Kannada /	1
	P21KBK407	Balake Kannada	
	P21CIP407	Constitution of India and Professional Ethics	
8	P21HSMC408	Employability Enhancement Skills - IV	1
9.	P21INT409	Internship - I	1
10	P21MDIP401	Basic Engineering Mathematics - II	0
11	P21HDIP408	Employability Enhancement Skills - II	0



**VI SEMESTER B.E. AUTOMOBILE ENGINEERING**

Sl. No.	Course Code	Course Name	Credits
1	P18AU61	Automotive Chassis and Suspension	4
2	P18AU62	Automotive Transmission	4
3	P18AU63	Automotive Electricals and Electronics	4
4	P18AU64X	Professional Elective-II	3
5	P18AU065X	Open Elective-I	3
6	P18AUL66	Automotive Chassis and Transmission Lab	1.5
7	P18AUL67	Automotive Electricals and Autotronics Lab	1.5
8	P18AUL68	Skill Oriented Lab-II (Modelling and Analysis lab)	1
9	P18HU693	Technical Skills-II (Internals of C Programming)	1

<b>List of Electives</b>					
<b>Professional Elective - II</b>			<b>Open Elective - I</b>		
Sl. No	Course Code	Course title	Sl. No	Course Code	Course title
1.	P18AU641	Total Quality Management	1.	P18AU0651	Automotive Engines and systems
2.	P18AU642	Automotive Air Conditioning			
3.	P18AU643	Operation Research			
4.	P18AU644	Two and Three Wheeled Vehicles			



**VI SEMESTER B.E. CIVIL ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1	P18CV61	Waste Water Collection and Treatment	4
2	P18CV62	Geotechnical Engineering.-I	4
3	P18CV63	Advanced Design of RC Structures	4
4	P18 CV 64X	Professional Elective -II	3
5	P18 CVO65X	Open Elective -I	3
6	P18CVL66	Geotechnical Engineering Laboratory	1.5
7	P18CVL67	Extensive Surveying	1.5
8	P18CVL68	Skill Oriented Laboratory(Competence in Project Management & Mapping, Spatial analysis in Hydrology)	1
9	P18HU693	Technical Skills- II (Internals of C Programming)	1

<b>List of Electives</b>					
<b>P18CV64X : Professional Elective -II</b>			<b>P18CVO65X : Open Elective -I</b>		
Sl.No	Course Code	Course Title	Sl.No	Course Code	Course Title
1	P18CV641	Alternative Building Materials and Masonry Structures	1	P18CVO651	Building Science and Engineering.
2	P18CV642	Reinforced Earth Structures	2	P18CVO652	Basic Transportation Engineering
3	P18CV643	Solid Waste Management	3	P18CVO653	Occupational Health and Safety
4	P18CV644	Traffic Engineering			



**VI SEMESTER B.E. ELECTRONICS AND COMMUNICATION ENGINEERING**

Sl. No.	Course Code	Course Name	Credits
1	P18EC61	Analog CMOS VLSI Design (CC-1)	4
2	P18EC62	Control Systems (CC-2)	4
3	P18EC63	Microwaves and Antennas (CC-3)	4
4	P18EC64X	Professional Elective – II	3
5	P18ECO65X	Open Elective – I	3
6	P18ECL66	Circuit Simulation Laboratory	1.5
7	P18ECL67	Analog and Digital VLSI Design Laboratory	1.5
8	P18ECL68	Skill Oriented Laboratory – II	1
9	P18HU692	Technical Skills – II (Internals of C Programming)	1

Professional Elective – II			Open Elective – I		
Sl. No.	Course Code	Course Title	Sl. No.	Course Code	Course Title
1	P18EC641	Multimedia Communication	1	P18ECO651	Electronic Waste Management
2	P18EC642	Radar and Navigational Systems	2	P18ECO652	Principles of Communication Systems
3	P18EC643	Introduction to Basics of Information Technology	3	P18ECO653	Ardiuno Controller with Applications
4	P18EC644	VLSI Testing and Verification	4	P18ECO654	Biometrics
5	P18EC645	Advance Digital Communication			



**VI SEMESTER B.E. ELECTRICAL AND ELECTRONICS ENGINEERING**

Sl. No.	Course Code	Course Name	Credits
1	P18EE61	Power System Analysis & Stability	4
2	P18EE62	Digital Signal Processing	4
3	P18EE63	Electrical Machine Design	4
4	P18EE64X	Professional Elective - II	3
5	P18EE065X	Open Elective-I	3
6	P18EEL66	Control System & DSP Lab	1.5
7	P18EEL67	Electrical Auto CAD Lab	1.5
8	P18EEL68	Skill Oriented Laboratory - II Labview & Multisim	1
9	P18HU692	Technical Skills - II	1

List of Electives					
Professional Elective - II			Open Elective - I		
Sl. No	Course Code	Course title	Sl. No.	Course Code	Course title
1.	P18EE641	Switchgear & Protection	1.	P18EE0651	Power Plant Engineering
2.	P18EE642	Modern Control Theory	2.	P18EE0652	Illumination Engineering
3.	P18EE643	Embedded System	3.	P18EE0653	Fuzzy Logic
4.	P18EE644	PLC & SCADA	4.	P18EE0654	Estimation and Costing



**VI SEMESTER B.E. COMPUTER SCIENCE AND ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1	P18CS61	Computer Architecture	4
2	P18CS62	Compiler Design	4
3	P18CS63	Data Analytics	4
4	P18CS64X	Professional Elective - II	3
5	P18CSO65X	Open Elective-I	3
6	P18CSL66	Data Analytics Lab.	1.5
7	P18CSL67	Operating System & Compiler Design Lab.	1.5
8	P18CSL68	Skill Oriented Laboratory-II (Python Programming Lab)	1
9	P18HU691	Technical Skills – II (Internals of C Programming)	1

List of Electives					
Professional Elective - II			Open Elective - I		
Sl. No	Course Code	Course title	Sl. No.	Course Code	Course title
1.	P18CS641	Block Chain Technology	1.	P18CSO651	Python Programming
2.	P18CS642	Cloud Computing Platform	2.	P18CSO652	Data Base Management System
3.	P18CS643	Mobile Computing	3.	P18CSO653	Web Technologies
4.	P18CS644	Wireless sensor Networks	4.	P18CSO654	Internet of Things



**VI SEMESTER B.E. INDUSTRIAL AND PRODUCTION ENGINEERING**

Sl. No	Course Code	Course Title	Credits
1	P18IP61	Engineering Economics	4
2	P18IP62	Theory of Metal Forming	4
3	P18IP63	Quality Assurance and Reliability	4
4	P18IP64X	Professional Elective - II	3
5	P18IPO65X	Open Elective-I	3
6	P18IPL66	Industrial Engineering Lab	1.5
7	P18IPL67	Computer Aided Analysis Lab	1.5
8	P18IPL68	Skill Oriented Laboratory-II (Advanced Geometric Modelling -II)	1
9	P18HU693	Technical Skills - II (Internals of C Programming)	1

List of Electives					
Professional Elective - II			Open Elective - I		
Sl. No	Course Code	Course title	Sl. No.	Course Code	Course title
1.	P18IP641	Plant Layout and Design	1.	P18IPO651	Principles of Marketing
2.	P18IP642	Human Resource Management	2.	P18IPO652	Financial Management
3.	P18IP643	Control Engineering and M/C Tool Drive	3.	P18IPO653	World Class Manufacturing
4.	P18IP644	Lean Manufacturing Systems	4.	P18IPO654	Management Information System



**VI SEMESTER B.E. INFORMATION SCIENCE AND ENGINEERING**

Sl. No	Course Code	Course Title	Credits
1	P18IS61	Machine Learning	4
2	P18IS62	Object Oriented System Development	4
3	P18IS63	Internet of Things	4
4	P18IS64X	Professional Elective-II	4
5	P18ISO65X	Open Elective -I	3
6	P18ISL66	Machine Learning Lab	1.5
7	P18ISL67	IoT Laboratory	1.5
8	P18ISL68	Skill Oriented Lab-II (Mobile Application Development Lab)	1
9	P18HU691	Technical Skills-II (Internals of C Programming)	1

Professional Elective -II			Open Elective - I		
Sl. No	Course Code	Course title	Sl. No.	Course Code	Course title
1	P18IS641	Cloud Computing	1	P18ISO651	Python Programming
2	P18IS642	Compiler Design	2	P18ISO652	Internet Programming
3	P18IS643	Web Technologies	3	P18ISO653	Database Management System
4	P18IS644	Supply Chain Management	4	P18ISO654	Data Structures





**VI SEMESTER B.E. MECHANICAL ENGINEERING**

Sl. No.	Course Code	Course Title	Teaching Dept.	Hrs/Week			Total Credit	Examination Marks		
				L	T	P		CIE	SEE	Total
1	P18ME61	Design of Machine Elements-II	Mechanical	4	-	-	4	50	50	100
2	P18ME62	Finite Element Method	Mechanical	4	-	-	4	50	50	100
3	P18ME63	Heat and Mass Transfer	Mechanical	4	-	-	4	50	50	100
4	P18ME64X	Professional Elective-II	Mechanical	2	2	-	3	50	50	100
5	P18MEO65X	Open Elective-I	Mechanical	3	-	-	3	50	50	100
6	P18MEL66	Computer Aided Modeling & Analysis Lab	Mechanical	-	-	3	1.5	50	50	100
7	P18MEL67	Heat & Mass Transfer Lab	Mechanical	-	-	3	1.5	50	50	100
8	P18MEL68	Skill Oriented Laboratory-II (Digital Manufacturing Lab)	Mechanical	-	-	2	1	50	50	100
9	P18HU693	Technical Skills-II ( Internals of C Programming)	Placement	-	2	-	1	50	50	100

Professional Elective-II			Open Elective-I		
Sl. No	Course Code	Course title	Sl. No.	Course Code	Course title
1.	P18ME641	Total Quality Management	1.	P18MEO651	Foundry &Welding Technology
2.	P18ME642	Non-Traditional Machining	2.	P18MEO652	Non-Destructive Testing
3.	P18ME643	I. C. Engines	3.	P18MEO653	Industrial Robotics and Automation
4.	P18ME644	Maintenance Engineering	4.	P18MEO654	Emerging Cooling Technology



**VIII SEMESTER B.E. AUTOMOBILE ENGINEERING**

Sl. No	Subject Code	Title of the Subject	Total Credits
1	P18AU81	Earthmoving Equipments and Tractors	04
2	P18AU82X	Professional Elective-IV	03
3	P18AU83	Internship	02
4	P18AU84	Project Work Phase-II	06
5	P18AU85	Self-study course and seminar	02

Professional Elective-IV		
Sl. No	Course Code	Course Title
1	P18AU821	Alternative Energy Sources for Automobiles
2	P18AU822	Automotive embedded systems
3	P18AU823	Control Engineering
4	P18AU824	Vehicle Dynamics

**VIII SEMESTER B.E. CIVIL ENGINEERING**

Sl. no	Course Code	Course Title	Credits
1	P18CV81	Pre stressed concrete structures	04
2	P18CV82X	Professional Elective - IV	03
3	P18CV83	Internship	02
4	P18CV84	Project Work Phase – II	06
5	P18CV85	Self-study course & Seminar	02

Professional Elective - IV		
Sl.no	Course Code	Course Title
1	P18CV821	Earthquake resistant design of structures
2	P18CV822	Ground Improvement Technique
3	P18CV823	Environmental Impact Assessment
4	P18CV824	Pavement Analysis and Design



**VIII SEMESTER B.E. COMPUTER SCIENCE AND ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1	P18CS81	Software Project Management	04
2	P18CS82X	Professional Elective - IV	03
3	P18CS83	Internship	02
4	P18CS84	Project Work Phase – II	6
5	P18CS85	Self-study course & Seminar	2

**Professional Elective - IV**

Sl. No	Course Code	Course title
1.	P18CS821	Deep Learning
2.	P18CS822	Network Management System
3.	P18CS823	Business Intelligence & Applications
4.	P18CS824	Agile Technologies

**VIII SEMESTER B.E. ELECTRONICS AND COMMUNICATION ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1	P18EC81	Digital Image Processing(CC-1)	4
2	P18EC82X	Professional Elective - IV	3
3	P18EC83	Internship	2
4	P18EC84	Project Work Phase – II	6
5	P18EC85	Self Study Course and Seminar	2

**Professional Elective - IV**

Sl. No	Course Code	Course Title
1.	P18EC821	Satellite Communication
2.	P18EC822	Algorithms for VLSI Physical Design Automation
3.	P18EC823	Advanced Wireless Technologies
4.	P18EC824	Bio Medical Signal Processing
5.	P18EC825	Stochastic Models and Applications



**VIII SEMESTER B.E. ELECTRICAL AND ELECTRONICS ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1	P18EE81	Renewable Energy Sources	4
2	P18EE82X	Professional Elective - IV	3
3	P18EE83	Internship	2
4	P18EE84	Project Work Phase - II	6
5	P18EE85	Self-study course & Seminar (Any advanced program discipline open source courses)	2

**Professional Elective - IV**

Sl. No	Course Code	Course title
1.	P18EE821	HVDC Power Transmission
2.	P18EE822	Energy Auditing & Demand Side Management
3.	P18EE823	Power system operation and control
4.	P18EE824	Smart Grid

**VIII SEMESTER B.E. INDUSTRIAL AND PRODUCTION ENGINEERING**

Sl. No	Course Code	Course Title	Credits
1	P18IP81	Total Quality Management	4
2	P18IP82X	Professional Elective - IV	3
3	P18IP83	Internship	2
4	P18IP84	Project Work Phase-II	6
5	P18IP85	Self-Study Course & Seminar	2

**Professional Elective-III**

Sl. No	Course Code	Course title
1	P18IP821	Agile Manufacturing.
2	P18IP822	Engineering System Design
3	P18IP823	Design of Experiment
4	P18IP824	Hydraulics & Pneumatic



**VIII SEMESTER B.E. INFORMATION SCIENCE AND ENGINEERING**

Sl. No.	Course Code	Course Title	Credits
1	P18IS81	Big data	4
2	P18IS82X	Professional Elective - IV	3
3	P18IS83	Internship	2
4	P18IS84	Project Work Phase – II	6
5	P18IS85	Self-study course & Seminar	2

**Professional Elective - IV**

Sl. No	Course Code	Course title
1.	P18IS821	Management Information System
2.	P18IS822	Semantic Web
3.	P18IS823	Natural Language Processing
4.	P18IS824	Multicore Programming

**VIII SEMESTER B.E. MECHANICAL ENGINEERING**

Sl. No.	Course Code	Course Title	Total Credit
1.	P18ME81	Industrial Robotics	4
2.	P18ME82x	Professional Elective-IV	3
3.	P18ME83	Internship	2
4.	P18ME84	Project Work Phase - II	6
5.	P18ME85	Self-Study course and Seminar	2

**Professional Elective-IV**

Sl. No.	Course Code	Course title
1.	P18ME821	Operations Research
2.	P18ME822	Foundry and Welding Technology
3.	P18ME823	Tribology
4.	P18ME824	Computational Fluid Dynamics



**I – Semester M.Tech. CAD of Structures**

Sl. No.	Course Code	Course Title	Credits
1.	P22MCAD11	Computational Structural Mechanics and FEM (PCC)	4
2.	P22 MCAD12	Structural Dynamics-Theory & Computation (PCC )	4
3.	P22 MCAD13	Advanced Design of RC Structural Elements (IPCC)	4
4.	P22 MCAD14X	Professional Elective – I (PEC)	3
5.	P22 MCAD 15X	Professional Elective – II (PEC)	3
6.	P22XXXXL16	Laboratory –I (PCCL)	2

Professional Elective - I			Professional Elective - II		
Sl. No	Course Code	Course Title	Sl. No	Course Code	Course Title
1.	P22MCAD141	Mechanics of Deformable bodies	1.	P22MCAD151	Reliability Analysis and Design of Structural Elements
2.	P22 MCAD142	Numerical Methods in Engineering	2.	P22MCAD152	Design of form works
3.	P22 MCAD143	Special Concrete	3.	P22MCAD153	Masonry structures
4.	P22 MCAD144	Pre-Fabricated structures	4.	P22MCAD154	Structural Optimization-Theory & Computations

**II – Semester M.Tech. CAD of Structures**

Sl. No.	Course Code	Course Title	Credits
1.	P22MCAD21	Research Methodology and IPR (MCC) [Common to all PG Programs]	3
2.	P22MCAD22	Seismic resistant Design of Structures – IV (IPCC)	5
3.	P22MCAD23	Advanced design of steel structures (PCC )	4
4.	P22MCAD24X	Professional Elective – III (PEC)	3
5.	P22MCAD25X	Professional Elective – IV (PEC)	3
6.	P22MCADL26	Laboratory -II (PCCL)	2

Professional Elective – III			Professional Elective - IV		
Sl. No	Course Code	Course Title	Sl. No	Course Code	Course Title
1.	P22MCAD241	Analysis of Plates & shells	1.	P22MCAD251	Composite and smart materials
2.	P22MCAD242	Design of Tall structures	2.	P22MCAD252	Advances in artificial Intelligence
3.	P22MCAD243	Fracture Mechanics	3.	P22MCAD253	Advanced Design of Pre-stressed concrete structures
4.	P22MCAD244	Soft Computing tools	4.	P22MCAD254	Applications of IoT in Civil Engineering



### **III – Semester M.Tech. CAD of Structures**

<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>
1.	P20MHSM31	Research Methodology and IPR	4
2.	P20MCAD32	Self-study course -1	3
3.	P20MCAD33	Self-study course -2	3
4.	P20MCAD 34	Technical Seminar	2
5.	P20MCAD 35	Project Phase – II	4
6.	P20 MCAD36	Internship	6

<b>Self-Study Course</b>		
<b>SL. NO</b>	<b>Course Code</b>	<b>Course Title</b>
1	P20MCAD32	Special Concrete
2	P20MCAD33	Formwork Techniques and Design

### **IV – Semester M.Tech. CAD of Structures**

<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>
1.	P20MCAD41	Project Phase – III	4
2.	P20 MCAD 42	Project Thesis Evaluation	6
3.	P20 MCAD 43	Project Viva - Voce	6
4.	P20 MCAD 44	Term Paper	2



**III – Semester M.Tech. Computer Science & Engineering**

Sl. No.	Course Code	Course Title	Credits
1.	P20MCSE31	Research Methodology and IPR <i>[Common to all PG Programs]</i>	4
2.	P20MCSE32	Self-Study Course - I	3
3.	P20MCSE33	Self-Study Course - II	3
4.	P20MCSE34	Technical Seminar	2
5.	P20MCSE35	Project Phase – II	4
6.	P20MCSE36	Internship	6

**IV – Semester M.Tech. Computer Science & Engineering**

Sl. No.	Course Code	Course Title	Credits
1.	P20MCSE41	Project Phase – III	4
2.	P20MCSE42	Project Thesis Evaluation	6
3.	P20MCSE43	Project Viva - Voce	6
4.	P20MCSE44	Term Paper	2





### I Semester MCA

Sl. No	Course Code	Course Title	Credits
1	P22MCA11	Mathematical Foundation for Computer Applications	4
2	P22MCA12	Object Oriented Programming with Java	4
3	P22MCA13	UNIX Shell Scripting	4
4	P22MCA14	Operating Systems	4
5	P22MCA15	Computer Networks	4
6	P22MCA16	Research Methodology and IPR	2
7	P22MCAL17	Java Programming Lab with Mini Application	1
8	P22MHU18	Employability Enhancement Skills-1 (EES-1) *	0
9	P22MCA19	Basics of Computer Fundamentals and Programming #	0

### II Semester MCA

Sl. No	Course Code	Course Title	Credits
1	P22MCA21	Web Technologies	4
2	P22MCA22	Data Structures with Algorithms	4
3	P22MCA23	Database Management Systems	4
4	P22MCA24	Software Engineering	4
5	P22MCA25X	Elective - I	3
6	P22MCA26X	Elective - II	3
7	P22MCAL27	Database Management Systems Lab with Mini Application	1
8	P22MCAL28	Data Structures with Algorithm Lab	1
9	P22MCA29	Technical Seminar	1
10	P22MHU210	Employability Enhancement Skills-2 (EES-2) *	0

Sl. No.	Course code	Elective Group - I	Sl. No.	Course code	Elective Group - II
1	P22MCA251	Data Warehousing & Data Mining	1	P22MCA261	Cloud Computing
2	P22MCA252	Model View Control Programming	2	P22MCA262	Artificial Intelligence
3	P22MCA253	System Simulation and Modeling	3	P22MCA263	Object-Oriented Modelling and Design Patterns
4	P22MCA254	Optimization Techniques	4	P22MCA264	Computer Graphics with open GL
5	P22MCA255	Software Testing and Practices	5	P22MCA265	Cyber Security



### **III Semester MCA**

Sl. No	Course Code	Course Title	Credits
1	P20MCA31	Machine Learning using Python	4
2	P20MCA32	Internet of Things (IOT)	4
3	P20MCA33	Programming using C# and .NET	4
4	P20MCA34X	Elective - III	4
5	P20MCA35X	Elective - IV	4
6	P20MCAL36	IOT Laboratory	1.5
7	P20MCAL37	NET Laboratory	1.5
8	P20MCA38	Mini Project	2
9	P20MHU39	Aptitude and Reasoning Development-BEGINNER (ARDB)*	1

Sl. No.	Course code	Elective Group - III	Sl. No.	Course code	Elective Group - IV
1	P20MCA341	Big Data and Analytics	1	P20MCA351	Mobile Application Development
2	P20MCA342	Block chain Technology	2	P20MCA352	Object-Oriented Modelling and Design Patterns
3	P20MCA343	Management Information System	3	P20MCA353	Deep Learning
4	P20MCA344	Cryptography and Network Security	4	P20MCA354	NOSQL
5	P20MCA345	Business Intelligence - Data Warehousing and Analytics	5	P20MCA355	Digital Image Processing

### **IV Semester MCA**

Sl. No	Course Code	Course Title	Credits
1	P20MCA41	Technical Seminar	2
2	P20MCA42	Industry Internship (4 weeks)	2
3	P20MCA43	Project Work	10
4	P20MCA44	Project Dissertation Evaluation	6
5	P20MCA45	Project Viva - Voce	4



### **I – Semester MBA**

<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>
1	P22MBA11	Accounting for Managers	4
2	P22MBA12	Marketing Management	3
3	P22MBA13	Management Fundamentals & Organizational Behavior	3
4	P22MBA14	Management Information System	3
5	P22MBA15	Business Statistics	4
6	P22MBA16	Business Economics	4
7	P22MBA17	Business Communication	3
8	P22MBA18	Seminar – I	1
9.	P22MBA19	Effective Communication Development (ECD)*	0

### **II – Semester MBA**

<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>
1	P22MBA21	Financial Management	3
2	P22MBA22	Quantitative Techniques	4
3	P22MBA23	Human Resource Management	3
4	P22MBA24	Business Research Methods	4
5	P22MBA25	Supply Chain Management	3
6	P22MBA26	Entrepreneurship and legal Aspects	3
7	P22MBA27	Strategic Management	3
8	P22MBA28	Seminar – II	1
9	P22MBA29	Professional Communication Development (PCD)*	0



### **III – Semester MBA**

<b>SL NO</b>	<b>COURSE CODE</b>	<b>COURSE</b>	<b>TOTAL CREDITS</b>
1	P19MBA31	Supply Chain Management	3
2	P19MBA32	Project Management	3
3	P19MBA33	Computer Lab 2	2
4	P19MBAEL1	Elective 1	3
5	P19MBAEL2	Elective 2	3
6	P19MBAEL3	Elective 3	3
7	P19MBAEL4	Elective 4	3
<b>FINANCIAL MANAGEMENT (MBA)</b>			
P19MBAEL1	P19MBA3F1	Financial Services and Banking Practices	
P19MBAEL2	P19MBA3F2	Mergers, Acquisitions and Corporate Restructuring	
P19MBAEL3	P19MBA3F3	Advanced Financial Management	
P19MBAEL4	P19MBA3F4	Investment Management	
<b>MARKETING MANAGEMENT</b>			
P19MBAEL1	P19MBA3M1	Consumer Behaviour	
P19MBAEL2	P19MBA3M2	Rural Marketing	
P19MBAEL3	P19MBA3M3	Industrial Marketing	
P19MBAEL4	P19MBA3M4	Service Marketing	
<b>HUMAN RESOURCE MANAGEMENT</b>			
P19MBAEL1	P19MBA3H1	Organization Structure, Process & Design	
P19MBAEL2	P19MBA3H2	Legal Environment & Industrial Legislation	
P19MBAEL3	P19MBA3H3	Team Development & Leadership	
P19MBAEL4	P19MBA3H4	Strategic Human Resource Management	



**IV – Semester MBA**

SL NO	COURSE CODE	COURSE	TOTAL CREDITS
1	P19MBA41	Entrepreneurship Development	3
2	P19MBA42	Strategic Management	3
3	P19MBA43	Project Evaluation	8
4	P19MBA44	Project Viva Voce	4
5	P19MBAEL1	Elective 1	3
6	P19MBAEL2	Elective 2	3
7	P19MBAEL3	Elective 3	3
8	P19MBAEL4	Elective 4	3

<b>FINANCIAL MANAGEMENT</b>		
P19MBAEL1	P19MBA4F1	Portfolio Management
P19MBAEL2	P19MBA4F2	Financial Derivatives
P19MBAEL3	P19MBA4F3	International Financial Management
P19MBAEL4	P19MBA4F4	Tax Management
<b>MARKETING MANAGEMENT</b>		
P19MBAEL1	P19MBA4M1	Retail Management
P19MBAEL2	P19MBA4M2	Strategic Brand Management
P19MBAEL3	P19MBA4M3	Integrated Marketing Communication
P19MBAEL4	P19MBA4M4	International Marketing Management
<b>HUMAN RESOURCE MANAGEMENT</b>		
P19MBAEL1	P19MBA4H1	International Human Resource Management
P19MBAEL2	P19MBA4H2	Organizational Change & Development
P19MBAEL3	P19MBA4H3	Training & Development
P19MBAEL4	P19MBA4H4	Personal Growth & Inter personal Effectiveness

**Date(s) on which syllabus revision, if any, was approved by the Academic Council:  
27<sup>th</sup> October, 2023**



### 3. Information of Academic Calendar:

Semester		Starting Date	Date of SEE	Closing Date	Recess Dates
Odd UG PG & Research	B.E - I	01/12/2022	17/04/2023 to 29/04/2023 (SEE Theory Exam)	29/04/2023	30/04/2023 to 14/05/2023
	B.E – III	02/11/2022	04/04/2023 to 08/04/2023 (SEE Practical Exam) 17/04/2023 to 29/04/2023 (SEE Theory Exam)	29/04/2023	30/04/2023 to 14/05/2023
	B.E – V	17/10/2022	16/02/2023 to 25/02/2023 (SEE Practical Exam) 27/02/2023 to 15/03/2023 (SEE Theory Exam)	15/03/2023	16/03/2023 to 26/03/2023
	B.E – VII	17/10/2022	16/02/2023 to 25/02/2023 (SEE Practical Exam) 27/02/2023 to 08/03/2023 (SEE Theory Exam)	08/03/2023	09/03/2023 to 12/03/2023
	M.Tech – I MBA – I MCA - I	21/02/2023	01/06/2023 to 10/06/2023 (SEE Theory Exam) 14/06/2023 to 17/06/2023 (SEE Practical Exam)	17/06/2023	18/06/2023
	M.Tech – III MBA – III MCA – III	01/10/2022	27/02/2023 to (SEE Theory Exam) 14/03/2023 to 18/03/2023 (SEE Practical Exam)	18/03/2023	19/03/2023 to 05/03/2023
Even UG PG & Research	B.E – II	15/05/2023	19/09/2023 to 23/09/2023 (SEE Practical Exam) 25/09/2023 to 07/10/2023 (SEE Theory Exam)	07/10/2023	-
	B.E – IV	15/05/2023	19/09/2023 to 23/09/2023 (SEE Practical Exam) 25/09/2023 to 07/10/2023 (SEE Theory Exam)	07/10/2023	-
	B.E – VI	27/03/2023	24/07/2023 to 02/08/2023 (SEE Practical Exam) 04/08/2023 to 16/08/2023 (SEE Theory Exam)	16/08/2023	-
	B.E – VIII	03/03/2023	10/07/2023 to 12/07/2023 (SEE Theory Exam) 13/07/2023 to 15/07/2023 (SEE Practical Exam)	15/07/2023	-
	M.Tech – II MBA – II MCA - II	19/06/2023	05/10/2023 to 18/10/2023 (SEE Theory Exam) 19/10/2023 to 21/10/2023 (SEE Practical Exam)	21/10/2023	-
	M.Tech – IV	06/03/2023	26/07/2023 to 01/08/2023 (SEE Practical Exam)	01/08/2023	-
	MBA - IV	08/03/2022	26/07/2023 to 01/08/2023 (SEE Practical Exam) 03/08/2023 to 14/08/2023 (SEE Theory Exam)	14/08/2023	-
	MCA – IV	14/03/2022	26/07/2023 to 01/08/2023 (SEE Practical Exam)	01/08/2023	-



#### 4. Information on Students' Performance:

(Please include additional columns in the following tables, if required.)

#### UG- Odd Semester: Automobile Engineering, 1<sup>st</sup> Semester

Course No.	P22MAME101	P22PHME102	P22ESME103	P22ESC1045	P22ETC1056	P22ENG106	P22KKBK107	P22KSK107	P22SFH108
No. of Students Registered	10	10	10	10	10	10	1	9	10
No. of Students Dropping	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	1	0	0	0	0	0
No. of Students Failing	5	6	2	7	3	2	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	50.00	40.00	80.00	20.00	70.00	80.00	100.00	100.00	100.00
O	0	0	0	0	0	0	1	0	0
A+	0	0	0	0	0	0	0	0	0
A	1	0	1	0	0	1	0	3	2
B+	1	1	0	0	1	0	0	2	2
B	3	1	1	0	1	0	0	2	2
C	0	1	1	2	2	3	0	0	2
P	0	1	5	0	3	4	0	2	2
Pass	5	4	8	2	7	8	1	9	10



**UG- Odd Semester: Computer Science & Engineering, 1<sup>st</sup> Semester**

Course No.	P22MACS101	P22PHCS102	P22ESCS103	P22ESC1042	P22ETC1055	P22ENG106	P22KKBK107	P22KSK107	P22SFH108
No. of Students <i>Registered</i>	195	195	195	195	195	195	24	171	195
No. of Students <i>Dropping</i>	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	2	2	4	2	2	2	0	3	1
No. of Students <i>Failing</i>	22	24	27	26	22	0	0	0	1
No. of Students with Transitional Grade: I W X	1	0	0	0	0	0	0	0	0
% of Students Awarded <i>Grade:</i>	87.69	86.66	84.10	85.64	87.69	98.97	100.00	98.25	98.97
O	52	20	24	19	12	0	8	43	3
A+	44	51	38	31	39	2	7	48	44
A	37	37	34	36	40	35	5	45	83
B+	25	27	28	36	35	71	1	23	46
B	11	14	14	12	19	29	0	4	12
C	2	12	6	16	12	30	2	3	3
P	0	8	20	17	14	26	1	2	1
Pass	171	169	164	167	171	193	24	168	193





**UG - Odd Semester: Civil Engineering 1<sup>st</sup> Semester**

Course No.	P22MACE101	P22CHCE102	P22MED103	P22ESC1045	P22ETC1054	P22ENG106	P22ICO107	P22IDT108
No. of Students Registered	79	79	79	79	79	79	79	79
No. of Students Dropping	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	7	8	4	0	0	1	0
No. of Students Failing	21	17	25	27	21	4	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	73.42	69.62	58.23	60.75	73.42	94.94	98.73	100.00
O	4	3	2	0	2	0	0	0
A+	13	16	5	5	7	0	0	15
A	12	10	9	12	10	1	0	24
B+	14	9	13	14	19	9	18	22
B	11	4	8	4	7	6	14	8
C	4	10	2	7	5	15	18	5
P	0	3	7	6	8	44	28	5
Pass	58	55	46	48	58	75	78	79



**UG- Odd Semester: Electronics & Communication Engineering 1<sup>st</sup> Semester**

Course No.	P22MAEE101	P22CHEE102	P22MED103	P22ESC1042	P22ETC1057	P22ENG106	P22ICO107	P22IDT108
No. of Students <i>Registered</i>	185	185	185	185	185	185	185	185
No. of Students <i>Dropping</i>	0	0	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	0	0	0	0	0	3	0	0
No. of Students <i>Failing</i>	17	20	19	14	8	1	0	0
No. of Students with Transitional <i>Grade: I W X</i>	0	0	0	0	0	0	0	0
% of Students Awarded <i>Grade:</i>	90.81	89.18	89.73	92.43	95.68	97.83	100.00	100.00
O	57	18	21	9	37	0	0	24
A+	36	51	49	28	51	1	0	71
A	45	39	44	50	42	14	16	51
B+	20	29	28	34	27	52	66	31
B	9	15	11	13	8	43	36	4
C	1	10	8	12	7	34	38	4
P	0	3	5	25	5	38	29	0
Pass	168	165	166	171	177	181	185	185



**UG- Odd Semester: Electrical and Electronics Engineering, 1<sup>st</sup> Semester**

Course No.	P22MAEE101	P22CHEE102	P22MED103	P22ESC1043	P22ETC1054	P22ENG106	P22ICO107	P22IDT108
No. of Students Registered	52	52	52	52	52	52	52	52
No. of Students Dropping	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0	0	0	0	0
No. of Students Failing	1	2	9	1	1	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	98.08	96.15	82.69	98.08	98.08	100.00	100.00	100.00
O	12	5	2	0	0	0	0	5
A+	18	16	6	5	12	0	1	24
A	16	18	8	19	22	0	2	13
B+	5	6	12	11	7	10	16	8
B	0	5	6	4	3	17	12	0
C	0	0	6	5	3	15	11	1
P	0	0	3	7	4	10	10	1
Pass	51	50	43	51	51	52	52	52



**UG- Odd Semester: Industrial and Production Engineering 1<sup>st</sup> Semester**

Course No.	P22MAME101	P22PHME102	P22ESME103	P22ESC1045	P22ETC1056	P22ENG106	P22KSK107	P22SFH108
No. of Students Registered	5	5	5	5	5	5	5	5
No. of Students Dropping	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0	0	0	0	0
No. of Students Failing	0	1	0	0	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	100.00	80.00	100.00	100.00	100.00	100.00	100.00	100.00
O	0	0	0	0	0	0	0	0
A+	0	0	1	0	0	0	0	0
A	0	0	1	0	2	0	2	1
B+	5	2	1	0	0	2	1	1
B	0	1	0	1	1	1	1	0
C	0	1	2	2	2	1	1	3
P	0	0	0	2	0	1	0	0
Pass	5	4	5	5	5	5	5	5



**UG- Odd Semester: Information Science & Engineering, 1<sup>st</sup> Semester**

Course No.	P22MACS101	P22PHCS102	P22ESCS103	P22ESC1043	P22ETC1055	P22ENG106	P22KKBK107	P22KSK107	P22SFH108
No. of Students <i>Registered</i>	60	60	60	60	60	60	3	57	60
No. of Students <i>Dropping</i>	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	0	0	0	0	0	0	0	0	0
No. of Students <i>Failing</i>	4	6	4	6	4	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	93.33	90.00	93.33	90.00	93.34	100.00	100.00	100.00	100.00
O	11	2	3	2	1	0	2	15	0
A+	16	11	15	7	10	0	1	18	13
A	15	13	17	4	9	7	0	14	27
B+	11	15	10	11	12	25	0	7	16
B	3	6	7	6	9	7	0	1	4
C	0	5	4	3	6	8	0	2	0
P	0	2	0	21	9	13	0	0	0
Pass	56	54	56	54	56	60	3	57	60



**UG- Odd Semester: Mechanical Engineering 1st Semester**

Course No.	P22MAME101	P22PHME102	P22ESME103	P22ESC1045	P22ETC1056	P22ENG106	P22KKBK107	P22KSK107	P22SFH108
No. of Students <i>Registered</i>	51	51	51	51	51	51	2	49	51
No. of Students <i>Dropping</i>	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	0	0	0	10	0	2	0	1	0
No. of Students <i>Failing</i>	16	13	5	23	6	4	0	0	3
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	68.63	74.51	90.20	35.28	88.24	88.24	100.00	97.96	94.12
O	0	0	0	0	0	0	1	0	0
A+	3	1	3	0	2	0	1	7	0
A	8	5	11	0	8	2	0	14	7
B+	10	12	16	4	10	4	0	16	18
B	9	9	4	4	7	6	0	5	9
C	5	10	1	4	4	9	0	1	7
P	0	1	11	6	14	24	0	5	7
Pass	35	38	46	18	45	45	2	48	48



**UG- Odd Semester: Automobile Engineering, 3<sup>rd</sup> Semester**

Course No.	P21MA301	P21AU302	P21AU303	P21AU304	P21AU305	P21AUL306	P21CIP307	P21HSMC308	P21AEC309	P21MDIP301	P21HDIP308
No. of Students Registered	15	15	15	15	15	15	15	15	15	8	8
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	2	2	2	2	2	2	2	2	2	0	0
No. of Students Failing	7	4	6	0	2	0	0	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	40.00	60.00	46.67	86.67	73.34	86.67	86.67	86.67	86.67	100.00	100.00
O	0	0	0	0	0	0	0	0	0	0	0
A+	0	0	0	0	0	0	0	0	0	0	0
A	1	0	0	2	0	5	2	2	2	0	0
B+	1	1	2	6	3	4	3	6	2	0	0
B	2	2	1	4	2	3	2	1	5	0	0
C	0	2	1	0	4	1	1	2	2	0	0
P	2	4	3	1	2	0	5	2	2	8	8
Pass	6	9	7	13	11	13	13	13	13	8	8



**UG- Odd Semester: Computer Science & Engineering, 3<sup>rd</sup> Semester**

Course No.	P21MA301	P21CS302	P21CS303	P21CS304	P21CS305	P21CSL306	P21KKBK307	P21KSK307	P21HSMC308	P21AEC309	P21MDIP301	P21HDIP308
No. of Students Registered	144	144	143	144	144	143	26	118	144	144	13	13
No. of Students Dropping	0	0	0	0	0	0	0	0		0	0	0
No. of Students Not admitted to SEE	2	2	1	3	4	2	1	1	2	2	0	0
No. of Students Failing	15	31	36	36	33	24	0	0	0	0	0	0
No. of Students with Transitional Grade: I W X	3	0	0	0	0	7	0	0	0	0	0	0
% of Students Awarded Grade:	86.11	77.08	74.13	72.92	74.30	76.92	96.15	99.15	98.61	98.61	100.00	100.00
O	20	19	5	13	21	31	4	78	2	5	0	0
A+	26	22	14	22	28	31	9	30	47	70	0	0
A	25	17	22	24	19	17	4	6	61	55	0	0
B+	24	19	28	21	13	20	6	2	18	11	0	0
B	9	9	14	13	9	9	1	0	5	1	0	0
C	13	12	12	5	7	1	1	1	8	0	0	0
P	7	13	11	7	10	1	0	0	1	0	13	13
Pass	124	111	106	105	107	110	25	117	142	142	13	13





**UG- Odd Semester: Civil Engineering, 3<sup>rd</sup> Semester**

Course No.	P21MA301	P21CV302	P21CV303	P21CV304	P21CV305	P21CVL306	P21KKB307	P21KSK307	P21HSMC308	P21AEC309	P21MDIP301	P21HDIP308
No. of Students Registered	133	133	133	133	133	133	7	126	133	133	42	42
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	9	11	13	13	13	8	0	3	0	9	0	0
No. of Students Failing	38	9	14	13	27	6	0	9	10	2	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	4	0	0	0	0	0	0
% of Students Awarded Grade:	64.66	84.96	79.70	80.46	69.93	86.46	100.00	90.48	92.48	91.73	100.00	100.00
O	4	0	2	13	5	4	1	44	0	0	0	0
A+	7	11	9	21	10	32	1	35	4	3	0	0
A	17	27	22	10	18	38	0	19	38	13	0	0
B+	17	31	19	24	19	28	3	12	45	33	0	0
B	12	12	11	16	10	9	0	3	9	39	0	0
C	12	14	13	12	24	1	1	0	18	18	0	0
P	17	18	30	11	7	3	1	1	9	16	42	42
Pass	86	113	106	107	93	115	7	114	123	122	42	42



**UG- Odd Semester: Electronics & Communication Engineering, 3<sup>rd</sup> Semester**

Course No.	P21MA301	P21EC302	P21EC303	P21EC304	P21EC305	P21ECL306	P21CIP307	P21HSMC308	P21AEC309	P21MDIP301	P21HDIP308
No. of Students <i>Registered</i>	207	207	207	207	207	207	207	207	207	37	37
No. of Students <i>Dropping</i>	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	1	2	1	2	1	4	0	0	0	0	0
No. of Students <i>Failing</i>	28	60	34	57	34	10	0	0	1	0	0
No. of Students with Transitional <i>Grade: I</i> <i>W X</i>	0	0	0	0	0	2	0	0	0	0	0
% of Students Awarded <i>Grade:</i>	85.99	70.05	83.09	71.50	83.09	92.27	100.00	100.00	99.52	100.00	100.00
O	32	7	8	1	1	23	0	0	0	0	0
A+	27	13	29	4	27	69	8	14	19	0	0
A	34	21	29	27	42	59	77	107	89	0	0
B+	26	32	33	47	39	29	68	38	68	0	0
B	19	15	20	38	35	8	13	25	14	0	0
C	16	16	16	26	20	2	12	19	12	0	0
P	24	41	37	5	8	1	29	4	4	37	37
Pass	178	145	172	148	172	191	207	207	206	37	37



**UG- Odd Semester: Electrical & Electronics Engineering, 3<sup>rd</sup> Semester**

Course No.	P21MA301	P21EE302	P21EE303	P21EE304	P21EE305	P21EEL306	P21KSK307	P21HSMC308	P21AEC309	P21MDIP301	P21HDIP308
No. of Students <i>Registered</i>	59	59	59	59	58	58	59	59	59	15	15
No. of Students <i>Dropping</i>	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	2	1	1	1	1	1	0	0	1	0	0
No. of Students <i>Failing</i>	12	14	8	3	2	0	0	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	76.27	74.57	84.74	93.23	94.83	98.28	100.00	100.00	98.31	100.00	100.00
O	4	0	0	1	4	3	41	0	0	0	0
A+	4	3	0	4	8	30	13	3	14	0	0
A	7	4	11	4	16	18	4	24	35	0	0
B+	12	5	10	13	13	5	1	20	7	0	0
B	6	3	7	10	9	1	0	4	2	0	0
C	4	7	10	11	2	0	0	5	0	0	0
P	8	22	12	12	3	0	0	3	0	15	15
Pass	45	44	50	55	55	57	59	59	58	15	15



**UG- Odd Semester: Industrial & Production Engineering 3rd Semester**

Course No.	P21MA301	P21IP302	P21IP303	P21IP304	P21IP305	P21IPL306	P21CIP307	P21HSMC308	P21AEC309	P21MDIP301	P21HDIP308
No. of Students Registered	13	13	13	13	13	13	13	13	13	2	2
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	2	2	2	2	2	2	2	2	2	0	0
No. of Students Failing	3	2	3	0	1	0	0	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	61.54	69.23	61.54	84.62	76.93	84.62	84.62	84.62	84.62	100.00	100.00
O	0	0	0	0	0	0	0	0	0	0	0
A+	0	0	0	0	0	1	0	0	0	0	0
A	4	1	1	2	2	3	2	4	2	0	0
B+	0	1	1	2	3	4	9	4	3	0	0
B	3	2	3	4	4	3	0	2	2	0	0
C	0	2	2	2	0	0	0	0	2	0	0
P	1	3	1	1	1	0	0	1	2	2	2
Pass	8	9	8	11	10	11	11	11	11	2	2



**UG- Odd Semester: Information Science & Engineering 3<sup>rd</sup> Semester**

Course No.	P21MA301	P21IS302	P21IS303	P21IS304	P21IS305	P21ISL306	P21KKBK307	P21KSK307	P21HSMC308	P21AEC309	P21MDIP301	P21HDIP308
No. of Students <i>Registered</i>	70	70	70	70	70	70	13	57	70	70	6	6
No. of Students <i>Dropping</i>	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	1	2	1	1	1	1	0	1	1	1	0	0
No. of Students <i>Failing</i>	8	15	13	8	6	9	0	0	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	87.14	75.71	80.00	87.14	90.00	85.71	100.00	98.25	98.57	98.57	100.00	100.00
O	3	2	3	2	2	8	4	39	0	0	0	0
A+	7	4	9	12	16	27	4	12	21	0	0	0
A	14	7	14	24	22	6	2	4	28	25	0	0
B+	18	17	14	9	16	10	2	1	17	34	0	0
B	4	9	4	4	4	5	1	0	2	8	0	0
C	9	8	6	6	3	2	0	0	1	2	0	0
P	6	6	6	4	0	2	0	0	0	0	6	6
Pass	61	53	56	61	63	60	13	56	69	69	6	6



**UG- Odd Semester: Mechanical Engineering 3rd Semester**

Course No.	P21MA301	P21ME302	P21ME303	P21ME304	P21ME305	P21MEL306	P21CIP307	P21HSMC308	P21AEC309	P21MDIP301	P21HDIP308
No. of Students Registered	150	149	150	149	149	150	149	149	150	67	67
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	7	9	23	11	8	10	6	6	16	0	0
No. of Students Failing	58	79	96	11	14	6	0	0	2	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	56.66	40.94	20.67	85.24	85.24	89.33	95.97	95.97	88.00	100.00	100.00
O	1	0	0	0	6	5	1	0	0	0	0
A+	1	1	0	10	10	29	1	2	2	0	0
A	6	1	0	37	34	50	21	22	11	0	0
B+	18	9	4	54	47	45	37	52	49	0	0
B	20	3	2	15	18	4	15	24	30	0	0
C	22	12	9	8	8	1	18	23	21	0	0
P	17	35	16	3	4	0	50	20	19	67	67
Pass	85	61	31	127	127	134	143	143	132	67	67



**UG- Odd Semester: Automobile Engineering: 5th Semester**

Course No.	P18AU51	P18AU52	P18AU53	P18AU54	P18AU552	P18AU56	P18AUL57	P18AUL58	P18AU591	P18HU510A
No. of Students <i>Registered</i>	16	20	16	16	16	16	16	16	16	18
No. of Students <i>Dropping</i>	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	0	0	0	0	0	0	0	2	3	0
No. of Students <i>Failing F</i>	1	5	4	1	1	0	0	0	0	3
No. of Students with Transitional Grade: I W X	0	1	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	93.75	70.00	75.00	93.75	93.75	100.00	100.00	87.50	83.33	83.33
S	0	0	0	0	0	0	0	0	0	0
A	3	0	0	0	5	0	0	0	0	0
B	5	0	1	1	5	6	5	2	0	0
C	5	7	5	8	4	8	9	8	0	0
D	2	5	6	5	1	2	2	4	8	0
E	0	2	0	1	0	0	0	0	5	15
P	15	14	12	15	15	16	16	14	13	15



**UG- Odd Semester: Computer Science & Engineering 5th Semester**

Course No.	P18CS51	P18CS52	P18CS53	P18CS54	P18CS552	P18CS553	P18CS554	P18CSL56	P18CSL57	P18CSL58	P18CS591	P18HU510A
No. of Students <i>Registered</i>	144	148	148	144	114	35	1	142	143	144	143	141
No. of Students <i>Dropping</i>	0	0	0	0	0	0		0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	0	0	0	0	0	0	0	0	0	0	0	1
No. of Students <i>Failing F</i>	9	3	21	4	13	1	1	2	3	3	1	0
No. of Students with Transitional <i>Grade: I WX</i>	0	0	0	0	2	0	0	0	0	0	0	0
% of Students <i>Awarded Grade:</i>	93.75	97.97	85.81	97.22	86.85	97.14	0.00	98.59	97.90	97.92	99.30	99.29
S	17	18	0	13	6	0	0	56	45	53	2	0
A	49	48	11	37	27	7	0	49	48	48	38	0
B	35	34	25	49	18	6	0	20	29	21	70	17
C	18	21	49	25	20	7	0	11	16	10	23	32
D	13	17	33	14	16	6	0	4	2	7	6	55
E	3	7	9	2	12	8	0	0	0	2	2	36
P	135	145	127	140	99	34	0	140	140	141	142	140





**UG- Odd Semester: Civil Engineering 5th Semester**

Course No.	P18CV51	P18CV52	P18CV53	P18CV54	P18CV551	P18CV553	P18CV554	P18CVL56	P18CVL57	P18CVL58	P18CV591	P18HU510A
No. of Students Registered	127	127	134	135	46	42	40	129	127	127	127	128
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	1	1	1	1	0	0	0	1	1	1	1	2
No. of Students Failing F	1	6	4	19	1	0	2	2	3	2	3	1
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	98.42	94.49	96.26	85.19	97.83	100.00	95.00	97.67	96.85	97.64	96.85	97.66
S	8	0	12	4	0	17	0	40	7	9	0	0
A	25	6	28	3	2	12	5	70	76	62	0	0
B	40	22	18	19	8	8	10	10	30	40	1	0
C	22	42	36	27	19	4	7	4	7	11	20	6
D	21	34	20	34	13	1	12	2	3	2	55	38
E	9	16	15	28	3	0	4	0	0	0	47	81
P	125	120	129	115	45	42	38	126	123	124	123	125



**UG- Odd Semester: Electronics & Communication Engineering 5th Semester**

Course No.	P18EC51	P18EC52	P18EC53	P18EC54	P18EC551	P18ECL56	P18ECL57	P18ECL58	P18EC591	P18EC592	P18EC593	P18HU510A
No. of Students <i>Registered</i>	178	161	182	158	169	174	169	168	61	50	94	135
No. of Students <i>Dropping</i>	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	2	3	2	2	3	3	2	4	0	3	1	4
No. of Students <i>Failing F</i>	2	16	9	12	3	2	5	0	0	6	1	2
No. of Students with Transitional <i>Grade: I W X</i>	0	0	1	0	1	0	1	0	0	0	0	0
% of Students Awarded <i>Grade:</i>	97.76	88.21	93.41	91.14	95.85	97.12	95.27	97.63	100.00	82.00	97.87	95.56
S	47	4	5	2	50	35	15	44	1	0	0	0
A	61	34	63	24	66	83	81	44	38	0	0	0
B	33	35	49	42	26	30	46	54	19	0	3	12
C	14	40	33	50	13	12	14	20	3	14	28	57
D	7	28	8	26	7	3	4	2	0	27	26	60
E	3	12	1	12	0	0	6	1	0	0	0	35
P	174	142	170	144	162	169	161	164	61	41	92	129



**UG- Odd Semester: Electrical & Electronics Engineering 5<sup>th</sup> Semester**

Course No.	P18EE51	P18EE52	P18EE53	P18EE54	P18EE551	P18EE554	P18EEL56	P18EEL57	P18EEL58	P18EE591	P18EE594	P18HU510A
No. of Students Registered	63	65	68	64	27	36	63	63	63	29	34	64
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0	0	0	0	0	0	0	0	1
No. of Students Failing F	0	2	11	1	1	0	0	0	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	100.00	96.92	83.82	98.44	96.30	100.00	100.00	100.00	100.00	100.00	100.00	98.44
S	1	0	1	3	1	1	19	17	19	0	0	0
A	16	4	3	8	7	10	25	36	29	0	8	0
B	20	10	8	16	6	10	12	8	9	1	19	1
C	22	17	14	19	6	8	6	2	5	17	6	6
D	4	25	19	14	6	6	0	0	0	9	1	28
E	0	7	12	3	0	1	1	0	1	2	0	28
P	63	63	57	63	26	36	63	63	63	29	34	63



**UG- Odd Semester: Industrial Production & Engineering 5th Semester**

Course No.	P18IP51	P18IP52	P18IP53	P18IP54	P18IP554	P18IPL56	P18IPL57	P18IPL58	P18IP591	P18HU510A
No. of Students <i>Registered</i>	5	6	7	5	5	5	5	5	5	5
No. of Students <i>Dropping</i>	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	0	0	0	0	0	0	0	0	0	0
No. of Students <i>Failing F</i>	0	1	1	0	0	0	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	100.00	83.33	85.71	100.00	100.00	100.00	100.00	100.00	100.00	100.00
S	0	0	0	0	0	2	3	5	5	0
A	2	2	2	4	1	3	2	0	0	0
B	3	3	0	1	4	0	0	0	0	2
C	0	0	3	0	0	0	0	0	0	1
D	0	0	1	0	0	0	0	0	0	1
E	0	0	0	0	0	0	0	0	0	1
P	5	5	6	5	5	5	5	5	5	5



**UG- Odd Semester: Information science & Engineering 5th Semester**

Course No.	P18IS51	P18IS52	P18IS53	P18IS54	P18IS551	P18IS554	P18ISL56	P18ISL57	P18ISL58	P18IS591	P18HU510A	P18IS51
No. of Students Registered	56	60	56	61	32	25	57	56	56	56	57	56
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	2	1	1	0	0	1	1	1	0	1	0
No. of Students Failing F	0	3	7	4	0	0	2	0	0	1	1	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	100.00	91.67	85.71	91.80	100.00	100.00	94.74	98.25	98.25	98.21	96.49	100.00
S	0	0	0	1	1	0	18	35	19	0	0	0
A	14	13	0	7	13	6	22	8	27	1	0	14
B	25	18	3	17	13	9	13	5	9	24	1	25
C	9	12	22	13	3	2	1	4	1	20	13	9
D	7	6	15	10	2	4	0	1	0	9	23	7
E	2	6	8	8	0	3	0	2	0	1	18	2
P	56	55	48	56	32	25	54	55	55	55	55	56



**UG- Odd Semester: Mechanical Engineering 5th Semester**

Course No.	P18ME51	P18ME52	P18ME53	P18ME54	P18ME551	P18ME553	P18ME554	P18MEL56	P18MEL57	P18MEL58	P18ME591	P18HU510A
No. of Students <i>Registered</i>	151	154	154	158	50	54	45	145	151	145	148	153
No. of Students <i>Dropping</i>	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	2	11	2	7	1	0	1	2	2	2	2	8
No. of Students <i>Failing F</i>	13	10	71	23	1	3	0	2	14	1	2	3
No. of Students with Transitional <i>Grade: I WX</i>	0	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded <i>Grade:</i>	90.07	86.37	52.60	81.01	96.00	94.44	97.73	97.24	89.41	97.93	97.30	92.81
S	0	1	0	0	2	1	1	15	2	5	0	0
A	11	3	0	3	13	4	6	57	20	61	7	0
B	28	15	7	15	15	8	1	49	49	58	55	3
C	41	27	21	35	9	15	7	17	40	15	45	9
D	37	36	37	42	8	19	15	3	21	3	24	53
E	19	51	16	33	1	4	13	0	3	0	13	77
p	136	133	81	128	48	51	44	141	135	142	144	142



**UG - Odd Semester: Automobile Engineering 7<sup>th</sup> Semester**

Course No.	P18AU71	P18AU72	P18AU73	P18AU741	P18CHO753	P18CS0751	P18CV0753	P18CV0754	P18ECO751	P18ECO752	P18EE0751	P18IP0751	P18IS0754	P18MB0755	P18AUL76	P18AUL77	P18AU78
No. of Students Registered	37	37	36	36	3	3	6	4	1	1	5	2	7	4	36	36	36
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	1	1	1	1	0	0	0	0	1	0	0	0	0	0	1	1	0
No. of Students Failing F	10	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
% of Students Awarded Grade:	70.27	97.22	97.14	97.14	100.00	100.00	100.00	100.00	0.00	0.00	100.00	100.00	100.00	100.00	97.14	97.14	97.14
S	0	0	0	0	2	2	0	0	0	0	0	0	0	0	15	16	29
A	2	9	4	4	0	0	3	1	0	0	0	2	0	0	17	19	4
B	3	15	9	11	2	0	1	2	0	0	0	0	0	1	2	0	2
C	5	5	16	12	0	1	2	0	0	0	1	0	3	3	0	0	0
D	5	5	4	6	0	0	0	1	0	0	2	0	4	0	0	0	0
E	11	1	1	1	0	0	0	0	0	0	2	0	0	0	0	0	0
P	26	36	35	35	3	3	6	4	0	0	5	2	7	4	35	35	35



**UG – Odd Semester: Computer Science & Engineering 7<sup>th</sup> Semester**

Course No.	P18CS71	P18CS72	P18CS73	P18CS741	P18CS744	P18AU0751	P18CH0753	P18CV0753	P18CV0754	P18EC0751	P18EE0751	P18IP0751	P18IS0754	P18MA0751	P18MB0755	P18ME0752	P18ME0753	P18CSL76	P18CSL77	P18CS78
No. of Students Registered	139	138	139	39	99	12	3	17	9	8	14	17	11	15	16	10	7	139	139	141
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	0
No. of Students Failing F	14	1	9	2	1	0	0	0	0	1	2	1	0	0	0	0	0	5	1	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
% of Students Awarded Grade:	89.93	98.55	93.53	92.31	98.99	100.00	100.00	100.00	100.00	87.50	85.71	94.12	100.00	100.00	100.00	100.00	100.00	94.24	95.68	100.00
S	10	28	13	7	15	2	0	0	2	0	1	6	0	8	0	1	0	59	42	81
A	21	53	29	8	38	3	2	7	4	2	2	7	3	4	1	0	1	37	46	50
B	33	31	39	10	28	4	0	7	1	2	5	3	2	0	2	2	4	21	30	6
C	28	17	34	4	12	1	1	2	0	2	3	0	4	2	9	1	2	11	11	0
D	21	1	12	4	5	2	0	0	1	1	1	0	1	1	4	5	0	3	4	3
E	12	5	3	3	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1
P	125	136	130	36	98	12	3	17	9	7	12	16	11	15	16	10	7	131	133	141





**UG - ODD Semester: Civil Engineering 7<sup>th</sup> Semester**

Course No.	P18CV71	P18CV72	P18CV73	P18CV741	P18CV743	P18CV744	P18AU0751	P18CHO753	P18CS0751	P18ECO751	P18ECO752	P18EE0751	P18IP0751	P18ISO754	P18MA0751	P18MB0755	P18ME0752	P18ME0753	P18CVL76	P18CVL77	P18CV78
No. of Students Registered	131	130	131	44	44	44	18	26	4	6	1	15	8	8	13	6	17	9	132	131	132
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Failing F	2	1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
% of Students Awarded Grade:	98.47	99.23	93.89	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	96.18	100.00
S	5	9	1	11	9	2	0	8	1	0	0	1	3	2	6	0	1	0	58	48	118
A	19	24	5	17	10	9	5	12	1	1	0	1	1	0	3	0	6	4	64	40	12
B	38	35	29	8	10	15	5	2	2	3	0	6	1	1	3	2	6	5	8	23	1
C	39	29	36	6	7	7	7	2	0	1	0	5	2	3	1	1	2	0	2	7	0
D	16	18	35	1	3	9	1	1	0	0	1	1	1	1	0	3	2	0	0	6	0
E	12	14	17	1	4	1	0	0	0	1	0	1	0	1	0	0	0	0	0	2	1
P	129	129	123	44	44	44	18	26	4	6	1	15	8	8	13	6	17	9	132	126	132



**UG - Odd Semester: Electronics & Communication Engineering 7<sup>th</sup> Semester**

Course No.	P18EC71	P18EC72	P18EC73	P18EC741	P18EC743	P18AU0751	P18CH0753	P18CS0753	P18CV0753	P18CV0754	P18EE0751	P18IP0751	P18IS0754	P18MA0751	P18MB0755	P18ME0752	P18ME0753	P18ECL76	P18ECL77	P18EC78
No. of Students Registered	195	195	194	89	107	13	10	29	10	11	6	22	24	12	7	17	35	195	195	199
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0
No. of Students Failing F	6	10	7	4	3	0	0	2	0	0	0	0	0	0	0	2	0	5	5	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
% of Students Awarded Grade:	96.92	94.87	96.39	95.51	96.27	100.00	100.00	93.10	100.00	100.00	100.00	100.00	100.00	100.00	100.00	88.24	100.00	95.90	97.44	99.49
S	4	11	7	2	3	0	5	0	0	1	0	14	2	6	0	0	2	10	32	55
A	12	27	54	27	17	2	5	2	7	3	0	5	11	2	0	4	13	66	89	111
B	59	52	59	21	48	6	0	6	2	3	1	2	6	4	2	3	13	60	40	27
C	85	58	35	20	18	5	0	3	1	3	2	1	5	0	3	4	7	41	26	5
D	26	28	28	10	12	0	0	10	0	1	2	0	0	0	1	3	0	10	3	0
E	3	9	4	5	5	0	0	6	0	0	1	0	0	0	1	1	0	0	0	0
P	189	185	187	85	103	13	10	27	10	11	6	22	24	12	7	15	35	187	190	198



**UG - ODD Semester: Electrical & Electronics Engineering 7<sup>th</sup> Semester**

Course No.	P18EE71	P18EE72	P18EE73	P18EE743	P18EE744	P18AUO751	P18CHO753	P18CSO751	P18CSO753	P18CVO753	P18CVO754	P18ECO751	P18ECO752	P18IPO751	P18ISO754	P18MAO751	P18MBO755	P18MEO752	P18MEO753	P18EEL76	P18EEL77	P18EE78
No. of Students Registered	63	63	63	40	23	5	9	3	7	5	5	2	1	1	4	3	4	7	7	63	63	63
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	2	1	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1	0
No. of Students Failing F	1	1	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
No. of Students with Transition Grade: I W X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	95.24	96.82	95.24	97.50	95.65	100.00	100.00	66.67	85.71	100.00	100.00	100.00	100.00	100.00	75.00	100.00	100.00	100.00	100.00	98.41	98.41	98.41
S	2	3	0	1	12	0	6	2	0	0	0	0	0	0	0	2	0	0	1	28	20	59
A	12	14	9	11	9	3	0	0	0	1	0	1	0	1	1	1	0	0	4	32	27	2
B	21	20	17	16	1	2	3	0	1	3	3	0	1	0	2	0	1	5	2	2	8	1
C	13	13	19	9	0	0	0	0	1	1	1	1	0	0	0	0	3	2	0	0	6	0
D	7	9	13	1	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0
E	5	2	2	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0
P	60	61	60	39	22	5	9	2	6	5	5	2	1	1	3	3	4	7	7	62	62	62



**UG - Odd Semester: Industrial & Production Engineering 7<sup>th</sup> Semester**

Course No.	P18IP71	P18IP72	P18IP73	P18IP741	P18AU0751	P18CV0754	P18ECO751	P18ISO754	P18MA0751	P18IPL76	P18IPL77	P18IP78
No. of Students <i>Registered</i>	19	19	18	19	7	6	3	1	2	19	19	19
No. of Students <i>Dropping</i>	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students <i>Failing F</i>	0	0	3	0	0	0	0	1	0	0	0	0
No. of Students with Transitional <i>Grade: I W X</i>	0	0	0	0	0	0	0	0	0	0	0	0
% of Students <i>Awarded Grade:</i>	100.00	100.00	83.33	100.00	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00
S	0	0	0	0	0	0	0	0	0	3	7	0
A	4	4	2	0	3	1	0	0	0	10	12	15
B	3	12	1	2	2	3	2	0	0	4	0	4
C	5	3	4	5	2	1	0	0	2	2	0	0
D	3	0	4	6	0	1	1	0	0	0	0	0
E	3	0	4	5	0	0	0	0	0	0	0	0
P	19	19	15	19	7	6	3	0	2	19	19	19



**UG - Odd Semester: Information Science & Engineering 7<sup>th</sup> Semester**

Course No.	P18IS71	P18IS72	P18IS73	P18IS742	P18IS743	P18AU0751	P18CHO753	P18CV0753	P18CV0754	P18ECO751	P18EE0751	P18IPO751	P18MA0751	P18MBO755	P18MEO752	P18MEO753	P18ISL76	P18ISL77	P18ISL78
No. of Students Registered	70	70	70	42	28	5	5	10	2	11	9	4	9	5	8	2	70	70	70
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0
No. of Students Not admitted to SEE	1	1	1	1	1	0	0	0	0	1	0	0	0	0	0	0	1	1	0
No. of Students Failing F	0	8	0	3	1	0	0	0	0	0	0	0	0	0	2	0	1	0	0
No. of Students with Transitional Grade: I WX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
% of Students Awarded Grade:	98.57	87.14	98.57	90.48	92.86	100.00	100.00	100.00	100.00	90.91	100.00	100.00	100.00	100.00	75.00	100.00	97.14	98.57	98.57
S	0	0	1	0	0	0	1	0	0	0	0	2	3	0	0	0	37	12	38
A	11	0	24	5	4	1	2	4	0	0	0	2	4	0	0	0	20	31	26
B	24	4	30	17	10	2	2	4	1	3	4	0	2	0	2	0	5	16	4
C	12	18	9	10	9	1	0	2	1	1	3	0	0	1	1	2	6	8	1
D	16	23	5	6	2	0	0	0	0	5	2	0	0	3	2	0	0	2	0
E	6	16	0	0	1	1	0	0	0	1	0	0	0	1	1	0	0	0	0
P	69	61	69	38	26	5	5	10	2	10	9	4	9	5	6	2	68	69	69



**UG - Odd Semester: Mechanical Engineering 7<sup>th</sup> Semester**

Course No.	P18ME71	P18ME72	P18ME73	P18ME741	P18ME742	P18CHO753	P18CSO751	P18CSO753	P18CVO753	P18CVO754	P18ECO751	P18ECO752	P18EE0751	P18IPO751	P18ISO754	P18MAO751	P18MBO755	P18MEL76	P18MEL77	P18ME78
No. of Students Registered	160	160	161	99	64	7	9	18	12	23	29	11	13	7	5	10	18	160	160	162
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	4	2	4	5	0	0	0	0	1	2	1	0	0	0	0	0	2	2	0
No. of Students Failing F	14	30	22	3	9	0	0	3	0	0	4	1	0	0	0	0	0	3	2	0
No. of Students with Transitional Grade: I W X	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
% of Students Awarded Grade:	91.25	78.75	84.48	92.93	78.13	100.00	100.00	83.33	100.00	95.65	79.31	81.82	100.00	100.00	100.00	100.00	100.00	96.87	97.50	98.75
S	4	5	0	1	5	1	4	0	1	0	1	0	0	1	0	0	0	20	36	142
A	38	15	2	6	9	1	2	0	4	3	3	0	0	1	0	7	3	67	77	14
B	48	20	34	35	11	4	3	2	3	5	3	0	2	4	2	2	5	43	30	4
C	25	35	48	36	12	1	0	3	2	10	4	3	3	1	2	1	5	23	11	0
D	21	29	44	9	9	0	0	3	2	4	7	5	8	0	0	0	2	2	2	0
E	10	22	8	5	4	0	0	7	0	0	5	1	0	0	1	0	2	0	0	0
P	146	126	136	92	50	7	9	15	12	22	23	9	13	7	5	10	18	155	156	160



**UG- Even Semester: Automobile Engineering, 2<sup>nd</sup> Semester**

Course No.	P22MAME201	P22CHME202	P22CED203	P22ESC2043	P22PLC2052	P22ENG206	P22IC0207	P22IDT208
No. of Students <i>Registered</i>	10	10	10	10	10	10	10	10
No. of Students <i>Dropping</i>	0	0	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	0	0	1	0	0	0	0	0
No. of Students <i>Failing</i>	8	5	5	6	4	0	1	0
No. of Students with Transitional <i>Grade: I W X</i>	0	0	0	0	0	0	0	0
% of Students Awarded <i>Grade:</i>	20.00	50.00	40.00	40.00	60.00	100.00	90.00	100.00
O	0	0	0	0	0	0	2	0
A+	0	0	0	0	0	0	2	0
A	0	1	0	0	0	1	4	2
B+	1	2	1	0	0	5	1	5
B	1	0	0	1	1	1	0	1
C	0	2	1	0	4	2	0	0
P	0	0	2	3	1	1	0	2
Pass	2	5	4	4	6	10	9	10



**UG- Even Semester: Computer Science & Engineering, 2<sup>nd</sup> Semester**

Course No.	P22MACS201	P22CHCS202	P22CED203	P22ESC2042	P22PLC2054	P22ENG206	P22ICO207	P22IDT208
No. of Students Registered	193	191	193	192	192	193	193	193
No. of Students Dropping	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	1	1	0	1	3	0	0
No. of Students Failing	18	15	6	23	20	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	90.67	91.62	96.37	88.02	89.06	98.45	100.00	100.00
O	56	38	58	6	24	0	156	99
A+	37	56	45	23	45	4	28	54
A	31	35	42	37	25	64	5	25
B+	31	29	24	29	40	99	4	9
B	10	8	9	25	18	13	0	3
C	9	6	6	16	11	8	0	2
P	1	3	2	33	8	2	0	1
Pass	175	175	186	169	171	190	193	193





**UG- Even Semester: Civil Engineering, 2<sup>nd</sup> Semester**

Course No.	P22MACE201	P22PHCE202	P22ESCE203	P22ESC2042	P22PLC2052	P22ENG206	P22KKBK207	P22KSK207	P22SFH208
No. of Students Registered	78	78	78	78	78	78	7	71	78
No. of Students Dropping	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	1	0	1	0	2	0	2	0
No. of Students Failing	15	16	21	14	22	1	0	0	1
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	80.76	78.21	73.08	80.77	71.79	96.15	100.00	97.18	98.72
O	2	1	1	0	2	0	0	1	0
A+	15	10	7	6	8	0	5	13	5
A	14	17	13	8	16	10	2	27	28
B+	11	15	15	14	14	21	0	16	30
B	6	6	4	6	7	12	0	9	8
C	11	7	7	8	8	16	0	1	3
P	4	5	10	21	1	16	0	2	3
Pass	63	61	57	63	56	75	7	69	77



**UG- Even Semester: Electronics & Communication Engineering 2<sup>nd</sup> Semester**

Course No.	P22MAEE201	P22PHEE202	P22BEE203	P22ESC2045	P22PLC2052	P22ENG206	P22KBK207	P22KSK207	P22SFH208
No. of Students Registered	186	186	186	186	186	186	4	182	186
No. of Students Dropping	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	2	1	0	0	1	0
No. of Students Failing	14	24	11	17	15	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	92.47	87.10	94.09	89.78	91.40	100.00	100.00	99.45	100.00
O	31	13	12	19	13	0	2	1	40
A+	41	40	39	36	33	0	2	35	80
A	42	42	42	38	41	38	0	67	44
B+	34	36	31	38	40	102	0	62	17
B	18	10	16	16	25	18	0	8	2
C	6	15	12	13	11	17	0	6	2
P	0	6	23	7	7	11	0	2	1
Pass	172	162	175	167	170	186	4	181	186



**UG- Even Semester: Electrical and Electronics Engineering, 2<sup>nd</sup> Semester**

Course No.	P22MAEE201	P22PHEE202	P22EEEE203	P22ESC2045	P22PLC2054	P22ENG206	P22KKBK207	P22KSK207	P22SFH208
No. of Students Registered	52	52	52	52	52	52	2	50	52
No. of Students Dropping	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	1	0	0	0	0	0	0	0
No. of Students Failing	2	1	1	2	5	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	96.15	96.16	98.08	96.15	90.38	100.00	100.00	100.00	100.00
O	5	4	0	0	0	0	1	0	0
A+	19	13	19	5	2	1	1	10	9
A	11	11	13	12	17	5	0	24	26
B+	8	13	11	12	10	31	0	15	11
B	7	6	4	12	8	8	0	1	4
C	0	3	2	7	7	5	0	0	2
P	0	0	2	2	3	2	0	0	0
Pass	50	50	51	50	47	52	2	50	52



**UG- Even Semester: Industrial and Production Engineering 2<sup>nd</sup> Semester**

Course No.	P22MAME201	P22CHME202	P22CED203	P22ESC2043	P22PLC2052	P22ENG206	P22ICO207	P22IDT208
No. of Students Registered	5	5	5	5	5	5	5	5
No. of Students Dropping	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0	0	0	0	0
No. of Students Failing	3	0	2	1	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	40.00	100.00	60.00	80.00	100.00	100.00	100.00	100.00
O	0	0	0	0	0	0	1	0
A+	0	0	0	0	0	0	1	0
A	0	1	0	0	0	0	2	3
B+	1	2	0	1	2	3	1	2
B	0	0	2	1	1	1	0	0
C	1	2	0	1	1	1	0	0
P	0	0	1	1	1	0	0	0
Pass	2	5	3	4	5	5	5	5



**UG- Even Semester: Information Science & Engineering 2<sup>nd</sup> Semester**

Course No.	P22MACS201	P22CHCS202	P22CED203	P22ESC2042	P22PLC2051	P22ENG206	P22ICO207	P22IDT208
No. of Students <i>Registered</i>	60	60	60	60	60	60	60	60
No. of Students <i>Dropping</i>	0	0	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	0	0	0	0	0	0	0	0
No. of Students <i>Failing</i>	6	1	1	1	4	0	0	0
No. of Students with Transitional <i>Grade: I</i> W X	0	0	0	0	0	0	0	0
% of Students Awarded <i>Grade:</i>	90.00	98.33	98.33	98.33	93.33	100.00	100.00	100.00
O	9	11	18	5	2	0	51	33
A+	14	19	18	13	6	3	7	20
A	17	11	9	15	12	23	1	6
B+	6	13	8	10	18	26	0	1
B	7	2	2	6	8	5	1	0
C	1	2	4	2	3	3	0	0
P	0	1	0	8	7	0	0	0
Pass	54	59	59	59	56	60	60	60



**UG- Even Semester: Mechanical Engineering 2<sup>nd</sup> Semester**

Course No.	P22MAME201	P22CHME202	P22CED203	P22ESC2043	P22PLC2052	P22ENG206	P22ICO207	P22IDT208
No. of Students <i>Registered</i>	51	51	51	51	51	51	51	51
No. of Students <i>Dropping</i>	0	0	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	1	1	1	1	1	1	0	1
No. of Students <i>Failing</i>	17	6	7	12	19	0	1	0
No. of Students with Transitional <i>Grade: I</i> W X	0	0	0	0	0	0	0	0
% of Students Awarded <i>Grade:</i>	64.71	86.28	84.31	74.51	60.79	98.04	98.04	98.04
O	0	0	0	0	0	0	7	3
A+	3	5	3	0	3	1	21	9
A	3	6	6	2	1	3	18	13
B+	11	16	8	7	8	15	3	16
B	10	8	5	7	10	11	1	6
C	6	7	9	8	8	13	0	2
P	0	2	12	14	1	7	0	1
Pass	33	44	43	38	31	50	50	50



**UG-Even Semester: Automobile Engineering 4<sup>th</sup> Semester**

Course No.	P21MA401A	P21AU402	P21AU403	P21AU404	P21AU405	P21AUL406	P21KBK407	P21KSK407	P21HSMC408	P21INT409	P21MDIP401	P21HDIP408
No. of Students Registered	14	14	14	14	14	14	2	12	14	14	8	8
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	1	1	1	1	1	1	0	1	1	0	0	0
No. of Students Failing	8	6	5	0	0	0	0	0	0	3	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	35.71	50.00	57.15	92.86	92.86	92.86	100.00	91.67	92.86	78.57	100.00	100.00
O	0	0	1	0	0	0	0	0	0	0	0	0
A+	0	0	0	2	0	4	2	3	0	0	0	0
A	2	0	1	1	2	9	0	6	0	2	0	0
B+	1	1	2	8	2	0	0	1	0	7	0	0
B	0	1	0	1	1	0	0	1	1	2	0	0
C	1	2	2	1	5	0	0	0	5	0	0	0
P	1	3	2	0	3	0	0	0	7	0	8	8
Pass	5	7	8	13	13	13	2	11	13	11	8	8



**UG-Even Semester: Computer Science & Engineering 4<sup>th</sup> Semester**

Course No.	P21MA401B	P21CS402	P21CS403	P21CS404	P21CS405	P21CSL406	P21CIP407	P21HSMC408	P21INT409	P21HDIP408	P21MDIP401
No. of Students Registered	143	143	143	143	143	143	143	143	143	15	15
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	2	3	3	5	5	6	1	2	0	0	0
No. of Students Failing	17	25	15	29	25	13	6	3	4	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	5	2	0	0	0	0
% of Students Awarded Grade:	86.71	80.42	87.41	76.22	79.02	83.21	93.70	96.50	97.20	100.00	100.00
O	30	15	9	0	30	42	20	1	66	0	0
A+	21	21	24	16	28	33	36	7	57	0	0
A	27	23	22	29	18	15	58	53	14	0	0
B+	23	16	23	38	19	23	20	53	2	0	0
B	7	13	18	7	3	2	0	14	0	0	0
C	8	16	8	14	12	3	0	5	0	0	0
P	8	11	21	5	3	1	0	5	0	15	15
Pass	124	115	125	109	113	119	134	138	139	15	15





**UG-Even Semester: Civil Engineering 4<sup>th</sup> Semester**

Course No.	P21MA401A	P21CV402	P21CV403	P21CV404	P21CV405	P21CVL406	P21CIP407	P21HSMC408	P21INT409	P21HDIP408	P21MDIP401
No. of Students Registered	124	124	124	124	124	124	124	124	124	44	44
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	1	1	2	3	2	3	0	0	0	0	0
No. of Students Failing	44	39	10	7	10	8	4	7	2	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	1	0	1	0	0
% of Students Awarded Grade:	63.72	67.74	90.33	91.93	90.33	91.13	95.96	94.35	97.58	100.00	100.00
O	4	2	5	8	3	22	21	0	30	0	0
A+	9	11	19	15	15	39	37	0	29	0	0
A	12	15	20	27	26	26	37	0	31	0	0
B+	15	12	25	37	26	15	20	7	22	0	0
B	7	10	14	9	15	5	3	15	5	0	0
C	12	16	6	9	13	5	1	28	1	0	0
P	20	18	23	9	14	1	0	67	3	44	44
Pass	79	84	112	114	112	113	119	117	121	44	44



**UG-Even Semester: Electronics & Communication Engineering 4<sup>th</sup> Semester**

Course No.	P21MA401B	P21EC402	P21EC403	P21EC404	P21EC405	P21ECL406	P21KKB407	P21KSK407	P21HSMC408	P21INT409	P21MDIP401	P21HDIP408
No. of Students Registered	208	208	208	208	208	208	5	204	206	206	35	35
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	4	6	4	7	5	3	1	3	2	0	0	0
No. of Students Failing	15	14	38	26	5	39	0	0	2	6	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	1	0	0	0	1	0	0
% of Students Awarded Grade:	90.87	90.39	79.81	84.13	95.20	79.33	75.00	98.53	98.06	96.60	100.00	100.00
O	37	12	11	6	21	6	1	3	0	12	0	0
A+	41	30	26	18	47	33	1	56	16	48	0	0
A	26	46	32	40	47	67	0	95	50	54	0	0
B+	29	42	29	37	51	40	1	40	55	60	0	0
B	27	22	21	20	16	11	0	4	26	2	0	0
C	12	18	23	20	11	8	0	2	27	19	0	0
P	17	18	24	34	5	0	0	1	29	4	35	35
Pass	189	188	166	175	198	165	4	201	202	199	35	35



**UG-Even Semester: Electrical and Electronics Engineering 4<sup>th</sup> Semester**

Course No.	P21MA401B	P21EE402	P21EE403	P21EE404	P21EE405	P21EEL406	P21CIP407	P21HSMC408	P21INT409	P21MDIP401	P21HDIP408
No. of Students <i>Registered</i>	59	59	59	59	59	59	59	59	59	15	15
No. of Students <i>Dropping</i>	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	1	0	0	0	1	0	0	0	0	0	0
No. of Students <i>Failing</i>	6	2	2	6	6	1	0	2	2	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	1	0	0	0	0	0
% of Students Awarded Grade:	88.14	96.61	96.61	89.83	88.14	96.62	100.00	96.61	96.61	100.00	100.00
O	2	5	0	0	0	6	14	0	13	0	0
A+	4	19	5	3	3	37	22	2	27	0	0
A	12	14	9	11	10	12	11	6	15	0	0
B+	10	8	13	22	19	2	12	17	2	0	0
B	9	7	8	10	11	0	0	12	0	0	0
C	7	4	10	5	7	0	0	10	0	0	0
P	8	0	12	2	2	0	0	10	0	15	15
Pass	52	57	57	53	52	57	59	57	57	15	15



**UG-Even Semester: Industrial and Production Engineering 4<sup>th</sup> Semester**

Course No.	P21MA401A	P21ME402	P21ME403	P21ME404	P21ME405	P21MEL406	P21KKBK407	P21KSK407	P21HSMC408	P21INT409	P21MDIP401	P21HDIP408
No. of Students <i>Registered</i>	11	11	11	11	11	11	2	11	11	11	4	4
No. of Students <i>Dropping</i>	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	0	0	0	0	0	0	2	0	0	0	0	0
No. of Students <i>Failing</i>	1	4	2	0	1	0	0	0	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	1	0	0	0	0	0	0
% of Students Awarded Grade:	90.91	63.64	81.82	100.00	90.91	100.00	0.00	100.00	100.00	100.00	100.00	100.00
O	0	0	1	0	0	0	0	0	0	0	0	0
A+	1	0	1	1	0	4	0	0	0	0	0	0
A	3	1	2	0	1	7	0	3	0	0	0	0
B+	2	1	2	5	3	0	0	8	0	2	0	0
B	0	2	2	3	4	0	0	0	0	4	0	0
C	0	2	1	1	0	0	0	0	4	1	0	0
P	4	1	0	1	2	0	0	0	7	4	4	4
Pass	10	7	9	11	10	11	0	11	11	11	4	4



**UG-Even Semester: Information Science and Engineering 4<sup>th</sup> Semester**

Course No.	P21MA401B	P21IS402	P21IS403	P21IS404	P21IS405	P21ISL406	P21CIP407	P21HSMC408	P21INT409	P21MDIP401	P21HDIP408
No. of Students <i>Registered</i>	69	69	69	69	69	69	69	69	69	6	6
No. of Students <i>Dropping</i>	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	0	0	0	0	0	0	0	0	0	0	0
No. of Students <i>Failing</i>	9	8	6	11	10	2	1	1	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	86.96	88.41	91.30	84.06	85.51	97.10	98.55	98.55	100.00	100.00	100.00
O	5	1	0	0	1	19	6	0	44	0	0
A+	12	8	2	2	4	20	26	2	16	0	0
A	20	24	11	11	15	13	19	19	5	0	0
B+	10	9	23	17	18	8	17	26	4	0	0
B	4	7	8	10	9	0	0	9	0	0	0
C	5	2	4	9	6	3	0	8	0	0	0
P	4	10	15	9	6	4	0	4	0	6	6
Pass	60	61	63	58	59	67	68	68	69	6	6



**UG-Even Semester: Mechanical Engineering 4<sup>th</sup> Semester**

Course No.	P21MA401A	P21ME402	P21ME403	P21ME404	P21ME405	P21MEL406	P21KKB407	P21KSK407	P21HSMC408	P21INT409	P21MDIP401	P21HDIP408
No. of Students Registered	150	150	150	150	150	150	2	148	150	150	66	66
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	13	24	15	16	16	14	0	9	13	0	0	0
No. of Students Failing	57	46	31	9	25	11	0	3	2	15	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	1	0	0	0	0	0	0
% of Students Awarded Grade:	53.33	53.33	69.33	83.33	72.66	82.67	100.00	91.89	90.00	90.00	100.00	100.00
O	1	0	1	3	1	3	0	2	0	49	0	0
A+	3	1	3	11	3	36	1	20	0	43	0	0
A	6	3	9	38	17	56	1	65	4	38	0	0
B+	15	10	23	39	46	27	0	37	10	5	0	0
B	19	6	17	17	21	0	0	6	24	0	0	0
C	9	14	20	16	14	2	0	4	34	0	0	0
P	27	46	31	1	7	0	0	2	63	0	66	66
Pass	80	80	104	125	109	124	2	136	135	135	66	66



**UG-Even Semester: Automobile Engineering 6<sup>th</sup> Semester**

Course No.	P18AU61	P18AU62	P18AU63	P18AU644	P18CVO652	P18CVO654	P18ECO652	P18ECO654	P18MFE0653	P18AUL66	P18AUL67	P18AUL68	P18HU691A
No. of Students Registered	16	16	16	16	1	2	4	5	4	16	16	16	16
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Failing	1	1	0	1	0	0	1	2	0	0	0	0	2
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	93.75	93.75	100.00	93.75	100.00	100.00	75.00	60.00	100.00	100.00	100.00	100.00	87.50
S	0	0	0	0	0	0	0	0	0	0	0	1	0
A	0	0	1	1	0	0	0	0	1	12	14	4	0
B	0	3	7	6	0	0	3	0	2	4	1	6	1
C	1	6	3	5	0	0	0	0	1	0	1	3	4
D	10	5	4	3	1	2	0	0	0	0	0	1	4
E	4	1	1	0	0	0	0	3	0	0	0	1	5
P	15	15	16	15	1	2	3	3	4	16	16	16	14



**UG-Even Semester: Computer Science & Engineering 6<sup>th</sup> Semester**

Course No.	P18CS61	P18CS62	P18CS63	P18CS642	P18AUO651	P18CVO652	P18CVO654	P18ECO654	P18FEO651	P18IPO651	P18IPO653	P18MAO651	P18MEO652	P18MEO653	P18PHO652	P18CSL66	P18CSL67	P18CSL68	P18HU691A
No. of Students Registered	141	141	141	141	11	12	8	26	1	6	6	21	19	12	19	141	141	141	141
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
No. of Students Failing	5	11	20	7	0	1	0	2	0	0	1	0	1	0	0	2	4	5	3
No. of Students with Transitional Grade: I W X	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	90.28	90.28	89.58	95.14	90.91	100.00	84.62	96.30	71.43	100.00	100.00	100.00	90.00	94.74	78.57	92.96	93.71	97.20	95.80
S	3	2	3	13	0	0	0	1	0	3	1	12	1	0	1	51	46	58	13
A	34	19	13	36	9	0	2	3	0	2	2	3	12	4	4	59	30	48	54
B	31	42	26	36	1	5	3	9	1	1	0	3	3	6	5	19	28	19	42
C	40	47	47	32	1	6	1	1	0	0	1	1	1	2	3	8	27	10	21
D	21	16	21	12	0	0	2	7	0	0	0	2	0	0	3	1	5	0	6
E	6	3	8	4	0	0	0	3	0	0	1	0	1	0	2	0	0	0	1
P	135	129	118	133	11	11	8	24	1	6	5	21	18	12	18	138	136	135	137





**UG-Even Semester: Civil Engineering 6<sup>th</sup> Semester**

Course No.	P18CV61	P18CV62	P18CV63	P18CV641	P18CV642	P18CV643	P18CV644	P18AU0651	P18CS0652	P18CS0653	P18EC0652	P18EC0654	P18EE0651	P18IPO651	P18IPO653	P18MA0651	P18MEO652	P18MEO653	P18PH0652	P18CVL66	P18CVL67	P18CVL68	P18HU691A
No. of Students Registered	127	127	128	31	31	33	31	16	4	13	10	3	34	7	9	6	11	12	1	126	126	127	128
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
No. of Students Failing	1	9	10	0	1	0	0	0	1	0	3	0	1	0	0	0	0	0	0	0	0	1	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	99.21	92.12	90.63	100.00	96.77	100.00	96.77	100.00	75.00	100.00	70.00	100.00	97.06	100.00	100.00	100.00	100.00	100.00	100.00	99.21	99.21	99.21	100.00
S	7	2	12	5	0	6	0	1	0	2	0	0	2	2	0	3	0	0	0	23	39	66	0
A	27	6	19	7	1	16	3	2	0	6	0	0	2	3	3	3	1	5	0	76	67	37	15
B	47	15	33	6	6	7	14	6	0	3	0	0	12	2	3	0	6	4	0	18	15	14	43
C	30	19	25	9	10	3	10	4	0	2	3	1	10	0	3	0	1	1	0	8	4	7	39
D	8	44	17	3	9	1	3	2	2	0	2	2	3	0	0	0	2	1	0	0	0	1	22
E	6	31	10	1	4	0	0	1	1	0	2	0	4	0	0	0	1	1	1	0	0	0	9
P	126	117	116	31	30	33	30	16	3	13	7	3	33	7	9	6	11	12	1	125	125	126	128



**UG-Even Semester: Electronics & Communication Engineering 6<sup>th</sup> Semester**

Course No.	P18EC61	P18EC62	P18EC63	P18EC641	P18EC643	P18EC644	P18AU0651	P18CS0652	P18CS0653	P18CV0652	P18CV0654	P18EE0651	P18IP0651	P18IP0653	P18IS0652	P18MA0651	P18ME0652	P18ME0653	P18PH0652	P18ECL66	P18ECL67	P18ECL68	P18HU691A
No. of Students Registered	168	168	168	35	95	38	8	19	14	18	20	4	6	14	9	15	14	24	3	168	168	168	168
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	2	2	2	1	0	2	0	0	0	0	1	0	0	0	2	0	0	0	0	2	3	3	2
No. of Students Failing	6	5	28	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
No. of Students with Transitional Grade: I WX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	95.24	95.83	82.14	91.43	100.00	86.85	100.00	100.00	100.00	100.00	95.00	100.00	100.00	100.00	77.78	100.00	100.00	100.00	100.00	97.62	98.21	98.21	98.81
S	0	33	2	0	6	0	0	0	7	0	0	2	1	5	0	8	1	1	0	25	11	3	2
A	10	49	21	2	30	2	4	9	5	2	3	1	5	3	0	6	6	13	0	76	55	65	32
B	36	41	36	8	24	4	2	1	0	7	8	1	0	3	1	1	4	8	2	46	56	74	62
C	64	19	44	12	25	5	2	4	2	3	4	0	0	3	2	0	1	2	0	14	31	18	53
D	41	12	28	5	7	6	0	2	0	2	4	0	0	0	4	0	2	0	1	2	11	4	12
E	9	7	7	5	3	16	0	3	0	4	0	0	0	0	0	0	0	0	0	1	1	1	5
P	160	161	138	32	95	33	8	19	14	18	19	4	6	14	7	15	14	24	3	164	165	165	166



**UG-Even Semester: Electrical & Electronics Engineering 6<sup>th</sup> Semester**

Course No.	P18EE61	P18EE62	P18EE63	P18EE641	P18EE643	P18EE644	P18AU0651	P18CS0652	P18CS0653	P18CV0652	P18CV0654	P18IP0651	P18IP0653	P18IS0652	P18MA0651	P18ME0652	P18ME0653	P18PH0652	P18EEL66	P18EEL67	P18EEL68	P18HU691A
No. of Students Registered	63	63	63	20	15	28	4	3	2	11	7	8	3	1	3	9	10	2	63	63	63	63
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Failing	10	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students with Transitional Grade: I WX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	84.13	100.00	96.83	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
S	1	8	6	1	2	1	0	0	0	0	0	2	1	0	1	3	0	0	40	31	32	0
A	3	14	4	4	6	5	1	1	2	2	1	1	2	0	2	3	4	0	20	24	27	18
B	7	11	18	4	6	8	3	2	0	2	1	4	0	0	0	3	3	1	3	7	0	22
C	8	15	17	8	0	8	0	0	0	4	2	1	0	0	0	0	2	0	0	1	4	12
D	18	10	14	3	1	3	0	0	0	3	3	0	0	0	0	0	1	0	0	0	0	10
E	16	5	2	0	0	3	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1
P	53	63	61	20	15	28	4	3	2	11	7	8	3	1	3	9	10	2	63	63	63	63



**UG-Even Semester: Industrial & Production Engineering 6<sup>th</sup> Semester**

Course No.	P18IP61	P18IP62	P18IP63	P18IP644	P18AU0651	P18CS0652	P18CV0652	P18EC0652	P18IPL66	P18IPL67	P18IPL68	P18HU691
No. of Students Registered	5	5	5	5	1	1	1	2	5	5	5	5
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Failing	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students with Transitional Grade: I WX	0	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
S	0	0	0	0	0	0	0	0	2	4	5	0
A	1	3	0	3	0	0	0	0	3	1	0	0
B	2	2	1	0	0	0	1	0	0	0	0	2
C	2	0	2	1	1	1	0	0	0	0	0	2
D	0	0	2	1	0	0	0	1	0	0	0	0
E	0	0	0	0	0	0	0	1	0	0	0	1
P	5	5	5	5	1	1	1	2	5	5	5	5



**UG-Even Semester: Information Science & Engineering 6<sup>th</sup> Semester**

Course No.	P18IS61	P18IS62	P18IS63	P18IS643	P18IS644	P18AU0651	P18CVO652	P18CVO654	P18ECO654	P18EE0651	P18IPO651	P18IPO653	P18MAO651	P18MEO652	P18PHO652	P18ISL66	P18ISL67	P18ISL68	P18HU691A
No. of Students Registered	57	57	57	31	26	2	3	6	10	7	4	4	10	7	4	57	57	57	57
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
No. of Students Failing	1	2	3	2	1	0	0	0	2	0	0	0	0	0	0	1	1	1	0
No. of Students with Transitional Grade: I WX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	98.25	96.49	94.74	93.55	96.15	100.00	100.00	100.00	70.00	100.00	100.00	100.00	100.00	100.00	100.00	98.25	98.25	98.25	100.00
S	0	0	0	2	0	0	0	0	0	3	2	2	3	0	0	21	28	33	0
A	10	5	1	9	2	0	0	1	3	1	1	0	6	6	1	30	19	14	6
B	22	17	13	8	12	2	2	0	1	1	1	1	1	1	1	4	5	5	21
C	17	25	25	7	3	0	1	3	0	1	0	1	0	0	0	0	4	4	18
D	5	8	10	1	4	0	0	2	3	1	0	0	0	0	0	1	0	0	9
E	2	0	5	2	4	0	0	0	0	0	0	0	0	0	2	0	0	0	3
P	56	55	54	29	25	2	3	6	7	7	4	4	10	7	4	56	56	56	57



**UG-Even Semester: Mechanical Engineering 6<sup>th</sup> Semester**

Course No.	P18ME61	P18ME62	P18ME63	P18ME642	P18ME644	P18AU0651	P18CS0652	P18CS0653	P18CV0652	P18CV0654	P18ECO652	P18ECO654	P18EE0651	P18IPO651	P18IPO653	P18MA0651	P18PH0652	P18MEL66	P18MEL67	P18MEL68	P18HU691A
No. of Students Registered	146	146	146	120	27	18	8	15	14	17	14	16	14	9	4	5	13	146	146	147	146
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	4	7	3	2	1	1	0	1	0	0	0	0	0	0	0	0	1	2	2	2	3
No. of Students Failing	52	58	18	2	0	0	0	3	0	0	1	3	0	0	0	0	0	2	4	0	3
No. of Students with Transitional Grade: I WX	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	61.64	55.48	85.62	96.66	96.15	94.44	100.00	73.33	100.00	100.00	85.72	81.25	100.00	100.00	100.00	100.00	92.31	97.26	95.89	98.63	95.90
S	0	0	0	5	5	2	0	0	0	0	0	0	2	1	2	0	0	9	3	5	1
A	3	0	2	21	7	0	0	1	0	1	1	0	2	6	0	1	1	61	16	38	5
B	4	4	11	39	4	9	1	4	3	1	4	0	3	1	0	3	1	53	45	84	24
C	15	15	30	30	8	4	3	3	6	4	6	1	4	0	1	1	2	13	45	15	47
D	44	29	40	13	0	2	3	3	2	6	0	5	2	1	1	0	4	5	26	3	54
E	24	33	42	8	1	0	1	0	3	5	1	7	0	0	0	0	4	1	5	0	9
P	90	81	125	116	26	17	8	11	14	17	12	13	14	9	4	5	12	142	140	145	140



**UG-Even Semester: Automobile Engineering 8<sup>th</sup> Semester**

Course No.	P18AU81	P18AU822	P18AU83	P18AU84	P18AU85
No. of Students <i>Registered</i>	35	35	35	35	35
No. of Students <i>Dropping</i>	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	0	0	0	0	0
No. of Students <i>Failing</i>	0	0	0	0	0
No. of Students with Transitional <i>Grade: I WX</i>	0	0	0	0	0
% of Students Awarded <i>Grade:</i>	100.00	100.00	100.00	100.00	100.00
S	4	2	28	34	3
A	14	17	5	1	12
B	11	11	2	0	12
C	3	6	0	0	7
D	3	0	0	0	2
E	1	0	0	0	0
P	35	35	35	35	35



**UG-Even Semester: Computer Science & Engineering 8<sup>th</sup> Semester**

Course No.	P18CS81	P18CS823	P18CS824	P18CS83	P18CS84	P18CS85
No. of Students <i>Registered</i>	139	118	22	140	140	140
No. of Students <i>Dropping</i>	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	0	0	0	0	0	0
No. of Students <i>Failing</i>	0	0	2	0	0	0
No. of Students with Transitional Grade: I WX	1	1	0	2	2	4
% of Students Awarded <i>Grade:</i>	99.28	97.46	100.00	98.57	98.57	97.14
S	12	11	2	29	61	74
A	44	26	6	87	53	21
B	55	31	9	15	16	7
C	18	32	4	4	1	2
D	7	15	0	3	3	17
E	2	0	1	0	4	15
P	138	115	22	138	138	136





**UG-Even Semester: Civil Engineering 8<sup>th</sup> Semester**

Course No.	P18CV81	P18CV821	P18CV822	P18CV823	P18CV824	P18CV83	P18CV84	P18CV85
No. of Students <i>Registered</i>	133	33	33	33	34	133	133	133
No. of Students <i>Dropping</i>	0	0	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	0	0	0	0	0	1	1	1
No. of Students <i>Failing</i>	0	1	0	0	0	0	0	0
No. of Students with Transitional <i>Grade: I</i> WX	0	0	0	0	0	0	0	0
% of Students Awarded <i>Grade:</i>	100.00	96.97	100.00	100.00	100.00	99.25	99.25	99.25
S	3	0	0	12	6	69	100	64
A	6	1	2	7	11	46	30	33
B	24	8	12	4	11	16	1	15
C	28	10	9	4	3	0	1	2
D	33	7	4	3	3	1	0	0
E	39	6	6	3	0	0	0	18
P	133	32	33	33	34	132	132	132



**UG-Even Semester: Electronics & Communication Engineering 8<sup>th</sup> Semester**

Course No.	P18EC81	P18EC821	P18EC823	P18EC83	P18EC84	P18EC85
No. of Students <i>Registered</i>	196	100	48	48	195	195
No. of Students <i>Dropping</i>	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	1	0	0	1	1	0
No. of Students <i>Failing</i>	3	0	1	1	0	0
No. of Students with Transitional <i>Grade: I WX</i>	0	0	0	0	0	0
% of Students Awarded <i>Grade:</i>	97.96	100.00	97.92	95.84	99.49	100.00
S	10	2	0	2	3	24
A	76	3	6	9	47	121
B	62	16	18	11	111	44
C	25	24	9	14	29	3
D	14	41	10	6	4	3
E	5	14	4	4	0	0
P	192	100	47	46	194	195



**UG-Even Semester: Electrical & Electronics Engineering 8<sup>th</sup> Semester**

Course No.	P18EE81	P18EE821	P18EE822	P18EE823	P18EE83	P18EE84	P18EE85
No. of Students <i>Registered</i>	60	14	28	18	60	60	60
No. of Students <i>Dropping</i>	0	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	0	0	0	0	0	0	0
No. of Students <i>Failing</i>	0	1	0	0	0	0	0
No. of Students with Transitional <i>Grade: I WX</i>	0	0	0	0	0	0	0
% of Students Awarded <i>Grade:</i>	100.00	92.86	100.00	100.00	100.00	100.00	100.00
S	0	0	2	0	44	63	58
A	18	0	7	2	22	3	3
B	16	3	11	5	0	0	5
C	15	9	6	7	0	0	0
D	14	6	0	5	0	0	0
E	3	1	0	1	0	0	0
P	60	13	28	18	60	60	60



**UG-Even Semester: Industrial & Production Engineering 8<sup>th</sup> Semester**

Course No.	P18IP81	P18IP821	P18IP83	P18IP84	P18IP85
No. of Students <i>Registered</i>	19	19	19	19	19
No. of Students <i>Dropping</i>	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	0	0	0	0	0
No. of Students <i>Failing</i>	0	0	0	0	0
No. of Students with Transitional <i>Grade: I WX</i>	0	0	0	0	0
% of Students Awarded <i>Grade:</i>	100.00	100.00	100.00	100.00	100.00
S	2	1	16	8	2
A	5	1	3	11	9
B	4	1	0	0	1
C	3	5	0	0	0
D	3	5	0	0	0
E	2	6	0	0	7
P	19	19	19	19	19



**UG-Even Semester: Information Science & Engineering 8<sup>th</sup> Semester**

Course No.	P18IS81	P18IS821	P18IS83	P18IS84	P18IS85
No. of Students <i>Registered</i>	69	69	69	69	69
No. of Students <i>Dropping</i>	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	0	0	0	0	0
No. of Students <i>Failing</i>	5	7	0	0	0
No. of Students with Transitional <i>Grade: I WX</i>	0	0	0	0	0
% of Students Awarded <i>Grade:</i>	92.75	89.86	100.00	100.00	100.00
S	0	0	15	17	47
A	0	0	46	31	16
B	9	8	7	16	4
C	24	19	0	5	2
D	21	18	1	0	0
E	10	17	0	0	0
P	64	62	69	69	69



**UG - Even Semester: Mechanical Engineering 8<sup>th</sup> Semester**

Course No.	P18ME81	P18ME821	P18ME822	P18ME83	P18ME84	P18ME85
No. of Students <i>Registered</i>	160	100	60	160	160	161
No. of Students <i>Dropping</i>	0	0	0	0	0	0
No. of Students Not admitted to <i>SEE</i>	0	0	1	0	0	0
No. of Students <i>Failing</i>	3	3	2	0	0	1
No. of Students with Transitional <i>Grade: I WX</i>	0	0	0	0	0	0
% of Students Awarded <i>Grade:</i>	98	97	95	100	100	99
S	6	1	0	37	109	65
A	36	7	10	60	34	28
B	45	18	17	51	13	30
C	37	22	11	11	4	23
D	22	25	9	1	0	0
E	11	24	10	0	0	14
P	157	97	57	160	160	160



**PG & Research-Odd Semester: M.Tech Civil Engineering,(CAD of Structures) I-Semester**

Course No.	P22MCAD11	P22MCAD12	P22MCAD13	P22MCAD141	P22MCAD151	P22MCADL16
No. of Students Registered	3	3	2	3	3	3
No. of Students Dropping	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0	0	0
No. of Students Failing	0	0	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0
% of Students Awarded Grade:	100.00	100.00	100.00	100.00	100.00	100.00
O	0	0	0	0	0	0
A+	1	1	0	1	0	1
A	0	1	1	2	0	2
B+	2	1	1	0	1	0
B	0	0	0	0	1	0
C	0	0	0	0	1	0
P	0	0	0	0	0	0
Pass	3	3	2	3	3	3



**PG & Research-Odd Semester: Master of Computer Application, (MCA) I-Semester**

Course No.	P22MCA11	P22MCA12	P22MCA13	P22MCA14	P22MCA15	P22MCA16	P22MCA17	P22MHU18	P22MCA19
No. of Students Registered	60	60	60	60	60	60	60	60	19
No. of Students Dropping	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0	0	0	0	0	0
No. of Students Failing	0	10	3	2	1	1	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	100.00	83.33	95.00	96.67	98.33	98.33	100.00	100.00	100.00
O	11	0	1	0	0	2	18	0	0
A+	26	1	11	11	3	8	18	0	0
A	17	11	18	18	26	22	14	0	0
B+	4	14	23	22	23	16	6	0	0
B	1	7	4	5	3	4	1	0	0
C	1	17	0	2	4	7	3	0	0
P	0	0	0	0	0	0	0	0	0
Pass	60	50	57	58	59	59	60	60	19





**PG & Research-Odd Semester: Master of Business Administration (MBA) I-Semester**

Course No.	P22MBA11	P22MBA12	P22MBA13	P22MBA14	P22MBA15	P22MBA16	P22MBA17	P22MBA18	P22MBA19
No. of Students Registered	60	60	60	60	60	60	60	60	60
No. of Students Dropping	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	1	0	0	0	0	0	0
No. of Students Failing	5	2	1	0	5	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	91.67	96.67	96.67	100.00	91.67	100.00	100.00	100.00	100.00
O	1	0	0	0	1	0	0	5	0
A+	6	2	0	22	7	4	0	22	0
A	9	6	9	31	13	10	10	23	0
B+	21	29	27	7	20	23	25	8	0
B	5	10	14	0	6	14	19	2	0
C	13	11	8	0	8	9	6	0	0
P	0	0	0	0	0	0	0	0	0
Pass	55	58	58	60	55	60	60	60	60



**PG & Research-Odd Semester: M.Tech Computer Science & Engineering, III-Semester**

Course No.	P20MHSM31	P20MCSE32	P20MCSE33	P20MCSE34	P20MCSE35	P20MCSE36
No. of Students Registered	2	2	2	2	2	2
No. of Students Dropping	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0	0	0
No. of Students Failing	0	0	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0
% of Students Awarded Grade:	100.00	100.00	100.00	100.00	100.00	100.00
S	0	0	0	1	0	0
A	0	0	1	0	1	0
B	0	1	1	1	1	0
C	2	1	0	0	0	0
D	0	0	0	0	0	1
E	0	0	0	0	0	1
P	2	2	2	2	2	2



**PG & Research-Odd Semester: M.Tech Civil Engineering (CAD of Structures),  
III-Semester**

Course No.	P20MHSM31	P20MCAD32	P20MCAD33	P20MCAD34	P20MCAD35	P20MCAD36
No. of Students Registered	12	12	12	12	12	12
No. of Students Dropping	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0	0	0
No. of Students Failing	0	0	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0
% of Students Awarded Grade:	100.00	100.00	100.00	100.00	100.00	100.00
S	2	9	1	5	2	8
A	1	2	1	6	9	3
B	3	0	3	0	1	1
C	3	0	6	1	0	0
D	0	0	0	0	0	0
E	3	1	1	0	0	0
P	12	12	12	12	12	12



**PG & Research-Odd Semester: M.Tech Electronics and Communication  
Engineering (VLSI Design and Embedded system), III-Semester**

Course No.	P20MHSM31	P20MECE32	P20MECE33	P20MECE34	P20MECE35	P20MECE36
No. of Students Registered	2	2	2	2	2	2
No. of Students Dropping	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0	0	0
No. of Students Failing	0	0	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0
% of Students Awarded Grade:	100.00	100.00	100.00	100.00	100.00	100.00
S	0	0	0	0	0	0
A	0	1	0	2	1	0
B	1	1	0	0	1	2
C	1	0	0	0	0	0
D	0	0	0	0	0	0
E	0	0	2	0	0	0
P	2	2	2	2	2	2



**PG & Research-Odd Semester: Master of Computer Applications (MCA), III-Semester**

Course No.	P20MCA31	P20MCA32	P20MCA33	P20MCA341	P20MCA345	P20MCA351	P20MCA353	P20MCAL36	P20MCAL37	P20MCA38	P20MHU39
No. of Students Registered	60	60	60	19	40	20	39	60	60	60	60
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	1	1	1	0	0	0	0	1	1	1	1
No. of Students Failing	0	0	0	0	0	0	0	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	98.33	98.33	98.33	100.00	100.00	100.00	100.00	98.33	98.33	98.33	98.33
S	0	4	1	0	0	1	0	33	19	30	0
A	3	20	21	4	7	4	9	22	20	27	2
B	20	20	12	9	18	11	16	4	13	2	20
C	21	13	19	6	12	2	12	0	6	0	37
D	8	1	5	0	1	2	1	0	1	0	0
E	7	1	1	0	2	0	1	0	0	0	0
P	59	59	59	19	40	20	39	59	59	59	59



**PG & Research-Odd Semester: Master of Business Administration (MBA) III-Semester**

Course No.	P19MBA31	P19MBA32	P19MBA33	P19MBA3F1	P19MBA3F2	P19MBA3H1	P19MBA3H2	P19MBA3M1	P19MBA3M2
No. of Students Registered	61	61	61	46	46	42	42	34	34
No. of Students Dropping	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0	0	0	0	0	0
No. of Students Failing	0	2	0	1	0	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	100.00	96.72	100.00	97.83	100.00	100.00	100.00	100.00	100.00
S	0	0	3	0	0	0	0	0	0
A	32	2	20	3	13	6	9	0	4
B	27	20	32	9	25	25	16	0	20
C	1	22	6	21	8	10	13	15	9
D	1	14	0	12	0	0	4	10	1
E	0	1	0	0	0	1	0	9	0
P	61	59	61	45	46	42	42	34	34



**PG& Research-Even Semester: M.Tech –Civil Engineering (CAD of Structures) II-Semester**

Course No.	P22MCAD21	P22MCAD22	P22MCAD23	P22MCAD241	P22MCAD251	P22MCADL26
No. of <i>Students Registered</i>	3	3	3	3	3	3
No. of <i>Students Dropping</i>	0	0	0	0	0	0
No. of <i>Students Not admitted to SEE</i>	0	0	0	0	0	0
No. of <i>Students Failing</i>	0	0	0	0	0	0
No. of <i>Students with Transitional Grade: I W X</i>	0	0	0	0	0	0
% of <i>Students Awarded Grade:</i>	100.00	100.00	100.00	100.00	100.00	100.00
O	1	0	0	1	0	1
A+	0	2	1	0	1	2
A	1	1	0	0	1	0
B+	1	0	1	0	0	0
B	0	0	1	1	0	0
C	0	0	0	1	1	0
P	0	0	0	0	0	0
Pass	3	3	3	3	3	3



**PG& Research-Even Semester: Master of Computer Applications (MCA) II - Semester**

Course No.	P22MCA21	P22MCA22	P22MCA23	P22MCA24	P22MCA251	P22MCA261	P22MCA263	P22MCAL27	P22MCAL28	P22MCA29	P22MHU210
No. of Students Registered	60	60	60	60	60	30	30	60	60	60	60
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0	0	0	0	0	0	0	0
No. of Students Failing	2	2	0	6	3	0	1	1	1	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	96.67	96.67	100.00	90.00	95.00	100.00	96.67	98.33	98.33	100.00	100.00
O	3	0	0	0	0	0	3	9	9	26	0
A+	20	7	12	8	2	1	10	27	23	31	0
A	21	13	31	10	8	9	11	15	16	1	0
B+	10	17	13	11	18	9	4	7	6	2	0
B	2	9	2	12	10	8	0	0	5	0	0
C	2	12	2	13	19	3	1	1	0	0	0
P	0	0	0	0	0	0	0	0	0	0	0
Pass	58	58	60	54	57	30	29	59	59	60	60





**PG& Research-Even Semester: Master of Business Administration (MBA) II - Semester**

Course No.	P22MBA21	P22MBA22	P22MBA23	P22MBA24	P22MBA25	P22MBA26	P22MBA27	P22MBA28	P22MBA29
No. of Students Registered	58	58	58	58	58	58	58	58	58
No. of Students Dropping	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0	0	0	0	0	0
No. of Students Failing	8	1	0	0	0	0	1	3	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	86.21	98.28	100.00	100.00	100.00	100.00	98.28	94.83	100.00
O	0	0	0	0	0	0	0	0	0
A+	2	5	2	3	12	18	0	23	0
A	11	10	20	11	30	37	11	18	0
B+	18	28	28	27	16	3	20	8	0
B	14	9	7	15	0	0	18	0	0
C	5	5	1	2	0	0	8	0	0
P	0	0	0	0	0	0	0	6	0
Pass	50	57	58	58	58	58	57	55	58



**PG & Research-Even Semester: M.Tech –Computer Science & Engineering (CSE) IV - Semester**

Course No.	P20MCSE41	P20MCSE42	P20MCSE43	P20MCSE44
No. of Students Registered	2	2	2	2
No. of Students Dropping	0	0	0	0
No. of Students Not admitted to SEE	0	1	0	0
No. of Students Failing	1	0	1	1
No. of Students with Transitional Grade: I W X	0	0	0	0
% of Students Awarded Grade:	50.00	50.00	50.00	50.00
S	0	0	1	0
A	1	1	0	1
B	0	0	0	0
C	0	0	0	0
D	0	0	0	0
E	0	0	0	0
P	1	1	1	1



**PG & Research-Even Semester: M.Tech –Civil Engineering (CAD of Structures) IV - Semester**

Course No.	P20MCAD41	P20MCAD42	P20MCAD43	P20MCAD44
No. of Students Registered	12	12	12	12
No. of Students Dropping	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0
No. of Students Failing	0	1	1	0
No. of Students with Transitional Grade: I W X	0	0	0	0
% of Students Awarded Grade:	100.00	91.67	91.67	100.00
S	8	10	11	12
A	4	1	0	0
B	0	0	0	0
C	0	0	0	0
D	0	0	0	0
E	0	0	0	0
P	12	11	11	12



**PG & Research-Even Semester: M.Tech -Electronics & Communication Engineering**  
**(VLSI Design & Embedded Systems) IV- Semester**

Course No.	P18MECE41	P18MECE42	P18MECE43	P18MECE44
No. of Students Registered	2	2	2	2
No. of Students Dropping	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0
No. of Students Failing	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0
% of Students Awarded Grade:	100.00	100.00	100.00	100.00
S	0	1	1	0
A	1	1	1	2
B	1	0	0	0
C	0	0	0	0
D	0	0	0	0
E	0	0	0	0
P	2	2	2	2



**PG & Research-Even Semester: Master of Computer Applications (MCA) IV- Semester**

Course No.	P20MCA41	P20MCA42	P20MCA43	P20MCA44	P20MCA45
No. of Students Registered	58	58	58	58	58
No. of Students Dropping	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0	0
No. of Students Failing	0	0	0	0	0
No. of Students with Transitional Grade: I W X	0	0	0	0	0
% of Students Awarded Grade:	100.00	100.00	100.00	100.00	100.00
S	45	16	32	31	26
A	5	23	16	20	30
B	0	18	5	5	0
C	1	1	5	2	2
D	5	0	0	0	0
E	2	0	0	0	0
P	58	58	58	58	58



**PG & Research-Even Semester: Master of Business Administration (MBA) IV-Semester**

Course No.	P19MBA41	P19MBA42	P19MBA43	P19MBA44	P19MBA4F1	P19MBA4F2	P19MBA4H1	P19MBA4H2	P19MBA4M1	P19MBA4M2
No. of Students Registered	61	61	61	61	46	46	42	42	34	34
No. of Students Dropping	0	0	0	0	0	0	0	0	0	0
No. of Students Not admitted to SEE	0	0	0	0	0	0	0	0	0	0
No. of Students Failing	0	4	0	0	0	0	2	0	0	4
No. of Students with Transitional Grade: I W X	0	0	0	0	0	0	0	0	0	0
% of Students Awarded Grade:	100.00	100.00	100.00	100.00	97.83	100.00	100.00	100.00	100.00	100.00
S	0	0	6	2	0	0	0	0	0	0
A	20	0	23	20	3	1	5	6	3	0
B	36	3	17	19	16	16	8	23	16	2
C	5	28	15	14	20	21	16	11	10	9
D	0	26	0	6	6	8	11	2	5	19
E	0	4	0	0	0	0	2	0	0	4
P	61	61	61	61	45	46	42	42	34	34



(a) Method of *Grading* employed (*Please tick mark, whichever is applicable*):

- **Absolute Grading:** ✓
- Relative Grading:

(b) No. of PG & Research students year wise, detained from *vertical progression*, if any: NIL

5. If **Supplementary Semester** is not arranged, describe the method followed at the College to enable students with *dropped, withdrawn failed courses and/or any other criteria*, to meet the credit requirements for vertical progression:

**The Supplementary semester was conducted to supplement our slow learners students.**

6. **Any other relevant information** on the functioning of autonomy at the College: **NIL**

**Certificate:**

**It is certified that the information provided above is true to the best of my knowledge and belief. If required, the records maintained at the College will be made available for the scrutiny of University Authorities.**

**PRINCIPAL**