

# St. Peter's University

Chennai – 600 054.

## B.E. / B.Tech. PROGRAMMES

### **Regulations and Syllabi**

(Effective from 2008 - 2009)

#### **1. Eligibility:**

(1) Candidates who passed Higher Secondary Examination with Mathematics, Physics and Chemistry or under vocational stream with Mathematics, Physics and Chemistry conducted by the Government of Tamil Nadu or recognized institutions wherever prescribed are eligible for admission to Four Year B.E. / B.Tech. Programme in the following Branches.

- (i) B.E. (Aeronautical Engineering)
- (ii) B.E. (Automobile Engineering)
- (iii) B.E. (Civil Engineering)
- (iv) B.E. (Computer Science and Engineering)
- (v) B.E. (Electronics and Communication Engineering)
- (vi) B.E. (Electronics and Instrumentation Engineering)
- (vii) B.E. (Electrical and Electronics Engineering)
- (viii) B.E. (Mechanical Engineering)
- (ix) B.E. (Production Engineering)
- (x) B.Tech. (Chemical Engineering)
- (xi) B.Tech. (Information Technology)

(2) Candidates who passed Higher Secondary Examination with Mathematics, Biology, Physics and Chemistry or with Botany, Zoology, Physics, and Chemistry conducted by the Government of Tamil Nadu or recognized institutions wherever prescribed are eligible for admission to Four Year B.Tech. (Bio Technology) / B.E. (Bio – Medical Engineering) Programme.

(3) Candidates who passed Three Year Diploma in Technical Education conducted by the Government of Tamil Nadu are eligible for admission to Second Year of Four Year B.E. / B.Tech. Programme in the related Branches.

**2. Duration:** Four Years comprising 8 Semesters. Each semester has a minimum 90 working days with a minimum of 5 hours a day.

**3. Medium:** English is the medium of instruction and examination.

**4. Weightage for Continuous and End Assessment:** The weightage for Continuous Assessment (CA) and End Assessment (EA) be 25:75 unless the ratio is specifically mentioned in the scheme of Examinations.

**5. Credit System:** Credit system be followed with 18 credits for each semester and each credit is equivalent to 25-30 hours of effective study provided in the Time Table.

## 6. Scheme of Examinations (for I and II Semesters)

### I Semester

Code No.	Course Title	Credit	L	T	P	Marks		
						CA	EA	Total
<b>Theory</b>								
108EHT01	Technical English – I	1	3	1	0	25	75	100
108MAT02	Mathematics – I	3	3	1	0	25	75	100
108PHT03	Engineering Physics – I	3	3	0	0	25	75	100
108CYT04	Engineering Chemistry – I	3	3	0	0	25	75	100
108EGT05	Engineering Graphics – I	3	2	0	3	25	75	100
108FCT06	Fundamentals of Computing and Programming	3	3	0	0	25	75	100
<b>Practical</b>								
108CLP01	Computer Practices Laboratory – I	1	0	0	2	25	75	100
108ELP02	Engineering Practices Laboratory – I	1	0	0	2	25	75	100
108PCP03	*Physics & Chemistry Laboratory – I	-	0	0	3	-	-	-
<b>Total</b>		<b>18</b>	<b>17</b>	<b>2</b>	<b>10</b>	<b>200</b>	<b>600</b>	<b>800</b>

\*Laboratory classes on alternate weeks for Physics and Chemistry.

The Practical Examination of First Semester will be held only along with those of the Second Semester.

### II Semester

Code No.	Course Title	Credit	L	T	P	Marks		
						CA	EA	Total
<b>Theory</b>								
208EHT01	Technical English – II*	2	3	1	0	25	75	100
208MAT02	Mathematics – II*	3	3	1	0	25	75	100
208PHT03	Engineering Physics – II*	2	3	0	0	25	75	100
208CYT04	Engineering Chemistry – II*	2	3	0	0	25	75	100
208EMT05	Engineering Mechanics (For non-circuit branches)							
208CTT05	Circuit Theory (For branches under Electrical Faculty)	3	3	1	0	25	75	100
208EDT05	Electric Circuits and Electron Devices (For branches under I & C Faculty)							
208EET06	Basic Electrical & Electronics Engineering (For non-circuit branches)	3	3	0	0	25	75	100
208CMT06	Basic Civil & Mechanical Engineering (For circuit branches)							
<b>Practical</b>								
208CLP01	Computer Practices Laboratory – II*	1	0	1	2	25	75	100
208PCP02	Physics & Chemistry Laboratory – II*	1	0	0	3	25	75	100
208DMP03	Computer Aided Drafting and Modelling Laboratory (For non-circuit branches)		0	1	2	25	75	100
208ELP03	Electrical Circuits Laboratory (For branches under Electrical Faculty)	1	0	0	3	25	75	100
208CDP03	Circuits and Devices Laboratory (For branches under I & C Faculty)		0	0	3	25	75	100
<b>Total</b>		<b>18</b>	<b>18</b>	<b>5</b>	<b>13</b>	<b>225</b>	<b>675</b>	<b>900</b>

\*Common to all B.E./B.Tech. programmes.

**7. Passing Requirements:** The minimum pass mark (raw score) be 50% in End Assessment (EA) and 50% in Continuous Assessment (CA) and End Assessment (EA) put together. No minimum mark (raw score) in Continuous Assessment (CA) be prescribed unless it specifically mentioned in the scheme of Examination.

**8. Grading System:** Grading System on a 10 Point Scale be followed with 1 mark = 0.1 Grade point to successful candidates as given below.

$$\begin{aligned}
 \text{(a) Overall weighted Average Marks} &= \frac{\text{Sum of Weighted Marks}}{\text{Total Credits}} \\
 &= \frac{\sum(CA+EA)C}{\sum C}
 \end{aligned}$$

$$\begin{aligned}
 \text{Where Weighted Marks in each course} &= \text{Total Marks (CA and EA) multiplied by number of Credit} \\
 &= (CA+EA)C
 \end{aligned}$$

$$\begin{aligned}
 \text{(b) Overall Grade Point Average (OGPA)} &= \frac{\text{Sum of Weighted Grade Points}}{\text{Total Credits}} \\
 &= \frac{\sum(CA+EA)C}{\sum C}
 \end{aligned}$$

$$\begin{aligned}
 \text{Where Weighted Grade Points in each course} &= \text{Grade Points (CA and EA) multiplied by Credits} \\
 &= (CA+EA)C
 \end{aligned}$$

**The Overall Grade:** The Overall Grade and Classification of all successful candidates be arrived at from the Overall Grade Point Average as stipulated in the following Conversion Table.

(1 mark = 0.1 Grade Point on a 10 Point Scale)

<b>Grade</b>	<b>Over all Grade Point Average(OGPA)</b>	<b>Over all weighted Average marks</b>	<b>Classification</b>
0	9.00 to 10.00	90.00 to 100	First Class
A	8.00 to 8.99	80.00 to 89.99	First Class
B	7.00 to 7.99	70.00 to 79.99	First Class
C	6.00 to 6.99	60.00 to 69.99	First Class
D	5.00 to 5.99	50.00 to 59.99	Second Class
<b>F</b>	0 to 4.99	0 to 49.99	<b>Fail</b>

The Grade Sheets of successful candidates provide particulars such as (1) Overall weighted Average Marks, (2) Overall (Grade Point Average, (3) Overall Grade and (4) Overall classification.

**9. Pattern of the Question Paper:** The question paper for End Assessment will be set for three hours and for the maximum of 100 marks with following divisions and details.

**Part A:** 10 questions (with equal distribution to all units in the syllabus). Each question carries 2 marks.

**Part B:** 5 question with either or type (with equal distribution to all units in the syllabus). Each question carries 16 marks.

The total marks scored by the candidates will be reduced to the maximum prescribed in the Regulations.

**Registrar**