

*Progressive Education Society's*  
**Modern College of Arts, Science and  
Commerce,**  
Shivajinagar, Pune 5  
(An Autonomous College Affiliated to Savitribai Phule Pune University)

## **Framework of Syllabus**

### **Electronics Science**

#### **For B.Sc. Computer Science**

**(2019-20 Course)**

**(with effect from 2019-20 )**

**CIA:** Continuous Internal Evaluation

**Semester 1 (First Year)**

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-1	19CsEleU101	Fundamentals of Analog Electronics	03	02	40	60	100
CCT-2	19CsEleU102	Principles of Digital Electronics	03	02	40	60	100
CCP-1	19CsEleU103	Basic Electronic circuit Lab	03	02	40	60	100
<b>Total Credits</b>			-	<b>06</b>			

**Semester 2 (First Year)**

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-3	19CsEleU201	Fundamentals of Electronic instrumentation	03	02	40	60	100
CCT-4	19CsEleU202	Fundamentals of Digital Electronic Circuits	03	02	40	60	100
CCP-2	19CsEleU203	Electronic Instrumentation and digital circuit Lab	03	02	40	60	100
<b>Total Credits</b>			-	<b>06</b>			

**Semester 3 (Second Year)**

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-5	19CsEleU301	Intel 8051 Microcontroller Architecture & Programming	04	2.5	40	60	100
CCT-6	19CsEleU302	Communication Principles	04	2.5	40	60	100
CCP-3	19CsEleU303	Microcontroller and Communication Practical lab.	04	02	40	60	100
<b>Total Credits</b>			-	<b>07</b>			

**Semester 4 (Second Year)**

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-7	19CsEleU401	System Designing with Raspberry Pi	04	2.5	40	60	100
CCT-8	19CsEleU402	Advanced Communication Technologies	04	2.5	40	60	100
CCP-4	19CsEleU403	Raspberry Pi and advanced communication Practical Lab.	04	02	40	60	100
<b>Total Credits</b>			-	<b>07</b>			

**Semester 5 (Third Year)**

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
DSET-1	19CsEleU501	Embedded System	04	2.5	40	60	100
<b>Total Credits</b>			-	<b>2.5</b>			

Semester 6 (Third Year)

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
DSET-2	21CsEleU601	Electronic Instrumentation System	04	2.5	40	60	100
		<b>Total Credits</b>	-	<b>2.5</b>			