



IPS Academy, Institute of Engineering & Science, Indore

(A UGC Autonomous Institute, Affiliated to RGPV, Bhopal)

Bachelor of Technology (B.Tech.)

First Year First Semester, Group-A (CSE, CSE-DS, RC, IOT, CSIT-CS)

| S. No. | Course Type | Course Code | Course Title | Maximum Marks Allotted | | | | | Total Marks | Contact Hours per week | | | Total Credits |
|--------------|-------------|-------------|--------------------------------------|------------------------|----------------|------------------|--------------|----------------------|-------------|------------------------|----------|-----------|---------------|
| | | | | Theory | | | Practical | | | L | T | P | |
| | | | | End Sem. | Mid Sem. Exam. | Quiz/Assign-ment | End Semester | Term work | | | | | |
| | | | | | | | | Lab Work & Sessional | | | | | |
| 1 | BSC | MA01 | Linear Algebra | 60 | 25 | 15 | - | - | 100 | 2 | 1 | - | 3 |
| 2 | BSC | PY01 | Optics & Modern Physics | 60 | 25 | 15 | - | - | 100 | 3 | - | - | 3 |
| 3 | ESC | ME01 | Engineering Graphics & Visualization | 60 | 25 | 15 | - | - | 100 | 2 | - | - | 2 |
| 4 | ESC | CE01 | Basic Civil Engineering | 60 | 25 | 15 | - | - | 100 | 2 | - | - | 2 |
| 5 | ESC | EC01 | Basic Electronics Engineering | 60 | 25 | 15 | - | - | 100 | 2 | - | - | 2 |
| 6 | ESC | CS01 | Programming for Problem Solving | 60 | 25 | 15 | - | - | 100 | 2 | - | - | 2 |
| 7 | BSC | PY01(P) | Optics and Modern Physics Lab | - | - | - | 60 | 40 | 100 | - | - | 2 | 1 |
| 8 | ESC | ME01(P) | Engineering Graphics Lab | - | - | - | 60 | 40 | 100 | - | - | 2 | 1 |
| 9 | ESC | CE01(P) | Basic Civil Engineering Lab | - | - | - | 60 | 40 | 100 | - | - | 2 | 1 |
| 10 | ESC | CS01(P) | Programming for Problem Solving Lab | - | - | - | 60 | 40 | 100 | - | - | 2 | 1 |
| 11 | SBC | EC01(P) | Electronics and Computer Workshop | - | - | - | 60 | 40 | 100 | - | - | 2 | 1 |
| 12 | HSMC | HS01 | Design Thinking | - | - | - | - | 100 | 100 | - | - | 2 | 1 |
| Total | | | | 360 | 150 | 90 | 300 | 300 | 1200 | 13 | 1 | 12 | 20 |



IPS Academy, Institute of Engineering & Science, Indore

(A UGC Autonomous Institute, Affiliated to RGPV, Bhopal)

Bachelor of Technology (B.Tech.)

First Year First Semester, Group-B (CSIT,AI ML,AG,CE,EC,EX,CM,ME,FT)

| S.No. | Course Type | Course Code | Course Title | Maximum Marks Allotted | | | | | Total Marks | Contact Hours | | | Total Credits |
|--------------|-------------|-------------|--|------------------------|----------------|------------------|--------------|--------------------------------|-------------|---------------|----------|-----------|---------------|
| | | | | Theory | | | Practical | | | Per week | | | |
| | | | | End Sem. | Mid Sem. Exam. | Quiz/ Assignment | End Semester | Term work Lab Work & Sessional | | L | T | P | |
| 1 | BSC | MA01 | Linear Algebra | 60 | 25 | 15 | - | - | 100 | 2 | 1 | - | 3 |
| 2 | BSC | CH01 | Applied Chemistry | 60 | 25 | 15 | - | - | 100 | 3 | - | - | 3 |
| 3 | ESC | ME02 | Fundamentals of Mechanical Engineering | 60 | 25 | 15 | - | - | 100 | 2 | - | - | 2 |
| 4 | ESC | CE02 | Engineering Mechanics | 60 | 25 | 15 | - | - | 100 | 2 | - | - | 2 |
| 5 | ESC | EE01 | Basic Electrical Engineering | 60 | 25 | 15 | - | - | 100 | 2 | - | - | 2 |
| 6 | HSMC | HS02 | Communicative English | 60 | 25 | 15 | - | - | 100 | 2 | - | - | 2 |
| 7 | BSC | CH01(P) | Applied Chemistry Lab | - | - | - | 60 | 40 | 100 | - | - | 2 | 1 |
| 8 | ESC | CE02(P) | Engineering Mechanics Lab | - | - | - | 60 | 40 | 100 | - | - | 2 | 1 |
| 9 | ESC | EE01(P) | Basic Electrical Engineering Lab | - | - | - | 60 | 40 | 100 | - | - | 2 | 1 |
| 10 | HSMC | HS02(P) | Language Lab | - | - | - | 60 | 40 | 100 | - | - | 2 | 1 |
| 11 | SBC | ME01(P) | Tech. Shop Lab | - | - | - | 60 | 40 | 100 | - | - | 2 | 1 |
| 12 | LLC | LLC01 | Liberal Learning Course-I | - | - | - | - | 100 | 100 | - | - | 2 | 1 |
| Total | | | | 360 | 150 | 90 | 300 | 300 | 1200 | 13 | 1 | 12 | 20 |