

# B.TECH COMPUTER SCIENCE

## SEM 1

Course Code	Course Name
MA102	<u>Calculus and Differential Equations</u>
CY102	<u>Chemistry<sup>2</sup></u>
PY103	<u>Physics<sup>1</sup></u>
CL103	<u>Environment Studies<sup>1</sup></u>
CE104	<u>Computer Programming<sup>1</sup></u>
ME103	<u>Engineering Graphics<sup>2</sup></u>
EE103	<u>Elements of Electrical and Electronics Engineering<sup>1</sup></u>
HS101B/HS101I*	<u>English Communication<sup>2</sup></u>
ME104	<u>Mechanical Workshop<sup>2</sup></u>
EE104	<u>Electrical Workshop<sup>1</sup></u>

Gr-1 A to G Divisions; Gr-2 H to N Divisions

\*HS101B & HS101I English Communication would be offered to Vernacular & English medium students respectively

## SEM 2

Course Code	Course Name
MA202	<u>Linear Algebra</u>
CY102	<u>Chemistry<sup>1</sup></u>
PY103	<u>Physics<sup>2</sup></u>
CL103	<u>Environment Studies<sup>2</sup></u>
CE104	<u>Computer Programming<sup>2</sup></u>
ME103	<u>Engineering Graphics<sup>1</sup></u>
EE103	<u>Elements of Electrical and Electronics Engineering<sup>2</sup></u>
HS101B/HS101I*	<u>English Communication<sup>1</sup></u>
CE105	<u>Introduction to Computer Science and Engineering</u>
ME104	<u>Mechanical Workshop<sup>1</sup></u>
EE104	<u>Electrical Workshop<sup>2</sup></u>

## SEM 3

Course Code	Course Name
2CS301	<u>Data Structures and Algorithms</u>
2CS302	<u>Object Oriented Programming</u>
2CS303	<u>Digital Electronics</u>
2CS304	<u>Digital Communications</u>
2CS305	<u>Discrete Mathematics</u>
2HS342	<u>Principles of Economics</u>

## Semester IV

Course Code	Course Name
2CS401	<a href="#">Computer Architecture</a>
2CS402	<a href="#">Database Management Systems</a>
2CS403	<a href="#">Operating Systems</a>
2CS404	<a href="#">Programming for Scientific Computing</a>
2MA402	<a href="#">Probability and Statistics</a>
2HS341	<a href="#">Principles of Management</a>
2CS405	<a href="#">Web Technologies</a>

SEM 5

Course Code	Course Name
2CS501	<a href="#">Machine Learning</a>
2CS502	<a href="#">Computer Networks</a>
2CS503	<a href="#">Design &amp; Analysis of Algorithms</a>
2CS504	<a href="#">Software Engineering</a>

Open Elective offered by CSE

Course Code	Course Name
2CSOE52	<a href="#">Data Structures</a>
2CSOE76	<a href="#">Object Oriented Programming</a>
2CSOE78	<a href="#">Scientific Programming</a>

Open Elective offered to CSE

Course Code	Course Name
2CHOE01	<a href="#">Chemical Analytical Techniques</a>
2CHOE02	<a href="#">Air Pollution Control Techniques</a>
2ECOEO1	<a href="#">Wireless Sensor Network</a>
2ECOEO4	<a href="#">Fundamentals of Image and Video Processing</a>
2ECOEO76	<a href="#">MATLAB for Engineers</a>
2EEOEO52	<a href="#">Design, Estimation and Costing of Electrical Systems</a>
2EEOEO01	<a href="#">Electric Machines and Applications</a>
2EEOEO02	<a href="#">Electrical Power Utilisation and Safety</a>
2EEOEO51	<a href="#">Energy Management and Audit</a>
2ICOEO51	<a href="#">Programmable Logic Controller</a>
2MEOEO01	<a href="#">Introduction to Robotics</a>
2MEOEO03	<a href="#">Basics of Quality Management</a>

SEM 6

**Semester VI**

[2CS601 – Theory of Computation](#)

Department Elective-I

Department Elective-II

Department Elective-III

SEM 7

[2CS701 – Compiler Construction](#)

2CS702 – Big Data Analytics

2CS703 – Minor Project

2CS704 – Summer Internship

**Department Elective-IV**

**Department Elective-V**



SEM 8

2CS801 – Major Project Internship