

AC –
Item No.

UNIVERSITY OF MUMBAI



Revised syllabus (Rev- 2016) from Academic Year 2016 -17

Under

FACULTY OF TECHNOLOGY

Computer Engineering

Second Year with Effect from AY 2017-18

Third Year with Effect from AY 2018-19

Final Year with Effect from AY 2019-20

As per **Choice Based Credit and Grading System**
with effect from the AY 2016–17

Program Structure B.E. Computer Engineering, (Rev. 2016) w.e.f. AY 2019-20

B. E. Computer Engineering (Semester-VIII)

| Course Code | Course Name | Teaching Scheme (Contact Hours) | | | Credits Assigned | | | |
|--------------|--------------------------------------|---------------------------------|-----------|----------|------------------|-----------|----------|-----------|
| | | Theory | Pract | Tut | Theory | TW/Pract | Tut | Total |
| CSC801 | Human Machine Interaction | 4 | - | - | 4 | - | - | 4 |
| CSC802 | Distributed Computing | 4 | - | - | 4 | - | - | 4 |
| CSDLO 801X | Department Level Optional Course -IV | 4 | - | - | 4 | - | - | 4 |
| ILO801X | Institute Level Optional Course-II | 3 | - | - | 3 | - | - | 3 |
| CSL801 | Human Machine Interaction Lab | - | 2 | - | - | 1 | - | 1 |
| CSL802 | Distributed Computing Lab | - | 2 | - | - | 1 | - | 1 |
| CSL803 | Cloud Computing Lab | - | 4 | - | - | 2 | - | 2 |
| CSL804 | Computational Lab-II | - | 2 | - | - | 1 | - | 1 |
| CSP805 | Major Project-II | - | 12 | - | - | 6 | - | 6 |
| Total | | 15 | 22 | - | 15 | 11 | - | 26 |

| Course Code | Course Name | Examination Scheme | | | | | | | | |
|-------------|--------------------------------------|---------------------|--------|------|---------------|--------------------|-----|------|--------------|-------|
| | | Theory | | | | | TW | Oral | Oral & Pract | Total |
| | | Internal Assessment | | | End Sem. Exam | Exam Duration (in | | | | |
| | | Test 1 | Test 2 | Avg. | | | | | | |
| CSC801 | Human Machine Interaction | 20 | 20 | 20 | 80 | 3 | - | - | - | 100 |
| CSC802 | Distributed Computing | 20 | 20 | 20 | 80 | 3 | - | - | - | 100 |
| CSDLO 801X | Department Level Optional Course -IV | 20 | 20 | 20 | 80 | 3 | - | - | - | 100 |
| ILO801X | Institute Level Optional Course-II | 20 | 20 | 20 | 80 | 3 | - | - | - | 100 |
| CSC801 | Human Machine Interaction Lab | | | | | | 25 | 25 | - | 50 |
| CSL802 | Distributed Computing Lab | - | - | - | - | - | 25 | 25 | | 50 |
| CSL803 | Cloud Computing Lab | - | - | - | - | - | 50 | -- | 25 | 75 |
| CSL804 | Computational Lab-II | - | - | - | - | - | 50 | -- | 25 | 75 |
| CSP805 | Major Project-II | | | | | | 50 | -- | 50 | 100 |
| Total | | 80 | 80 | 80 | 320 | -- | 200 | 50 | 100 | 750 |

| Sem. | Department Level Optional Course (DLOC) | Institute Level Optional Course (ILOC) |
|-------------|---|--|
| V | CSDLO5011: Multimedia System CSDLO5012: Advance Operating System CSDLO5013: Advance Algorithm | ----- |
| VI | CSDLO6021: Machine Learning CSDLO6022: Advance Database System CSDLO6023: Enterprise Resource Planning CSDLO6024: Advance Computer Network | ----- |
| VII | CSDLO7031: Advance System Security & Digital Forensics CSDLO7032: Big Data & Analytics CSDLO7033: Robotics | ILO7011. Product Lifecycle Management ILO7012. Reliability Engineering ILO7013. Management Information System ILO7014. Design of Experiments ILO7015. Operation Research ILO7016. Cyber Security and Laws ILO7017. Disaster Management & Mitigation Measures ILO7018. Energy Audit and Management ILO7019. Development Engineering |
| VIII | DLO8011: High Performance Computing DLO8012: Natural Language Processing DLO8013: Adhoc Wireless Network | ILO8021. Project Management ILO8022. Finance Management ILO8023. Entrepreneurship Development and Management ILO8024. Human Resource Management ILO8025. Professional Ethics and CSR ILO8026. Research Methodology ILO8027. IPR and Patenting ILO8028. Digital Business Management ILO8029. Environmental Management |