# Department of Computer Science and Engineering

# Jorhat Engineering College

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**List of Elective Subjects offered ( BTech on Computer Science and Engineering)**

**SEMESTER V**

| PROGRAMME ELECTIVE - 1 SUBJECTS | | |
|---|---|---|
| Sl. No | Subject Code | Subject |
| 1 | CSE1815PE11 | Microcontrollers and Applications |
| 2 | CSE1815PE12 | Queuing Theory and modelling |
| 3 | CSE1815PE13 | Information Retrieval |
| 4 | CSE1815PE14 | Computer Graphics |
| 5 | CSE1815PE1* | Any other subject offered from time to time with the approval of the University |

**SEMESTER VI**

| PROGRAMME ELECTIVE-2 SUBJECTS | | |
|---|---|---|
| Sl. No | Subject Code | Subject |
| | CSE1816PE21 | Data Mining |
| 2 | CSE1816PE22 | Advanced Computer Architecture |
| 3 | CSE1816PE2* | Any other subject offered from time to time with the approval of the University |
| PROGRAMME ELECTIVE-3 SUBJECTS | | |
| Sl. No | Subject Code | Subject |
| 1 | CSE1816PE31 | Image Processing |
| 2 | CSE1816PE32 | Ad hoc and Sensor Networks |
| 3 | CSE1816PE33 | Real Time Systems |
| 4 | CSE1816PE3* | Any other subject offered from time to time with the University approval |
| OPEN ELECTIVE-I SUBJECTS | | |
| Sl. No | Subject Code | Subject |
| 1 | CSE18160E11 | Software Engineering |
| 2 | CSE18160E12 | Information Theory and Coding |
| 3 | CSE18160E13 | Fault Tolerant Computing |
| 4 | CSE18160E1* | Any other subject offered from time to time with the approval of the University |

## SEMESTER VII

### Program Elective-4

| Sl. No. | Subject Code | Subject |
|---|---|---|
| | CSE1817PE41 | Cloud Computing |
| 2 | CSE1817PE42 | Computational Complexity |
| 3 | CSE1817PE43 | Principles of Programming Languages |
| 4 | CSE1817PE4* | Any other subject offered from time to time with University approval |

### Open Elective-2

| Sl. No. | Code | Subject |
|---|---|---|
| 1 | CSE18170E21 | Machine Learning |
| 2 | CSE18170E22 | Human Computer Interaction |
| 3 | CSE18170E23 | Computer Vision and its Applications |
| 4 | CSE18170E2* | Any other subject offered from time to time with University approval |

### Open Elective-3

| Sl No | Code | Subject |
|---|---|---|
| 1 | CSE18170E31 | Distributed Systems |
| 2 | CSE18170E32 | Computational Geometry |
| 3 | CSE18170E33 | Embedded Systems |
| 4 | CSE18170E3* | Any other subject offered from time to time with University approval |

## SEMESTER VIII

| PROGRAMME ELECTIVE - 5 SUBJECTS | | |
|---|---|---|
| SlNo | Subject Code | Subject |
| 1 | CSE1818PE51 | Cryptography and Network Security |
| 2 | CSE1818PE52 | Speech and Natural Lan a e Processing |
| 3 | CSE1818PE53 | Parallel Computing |
| 4 | CSE1818PE5* | Any other subject offered from time to time with University approval |

| PROGRAMME ELECTIVE - 6 SUBJECTS | | |
|---|---|---|
| Sl.No | Subject Code | Subject |
| | CSE1818PE61 | Bi Data Anal ics |
| 2 | CSE1818PE62 | Computer Vision |
| 3 | CSE1818PE63 | Neural Networks and Deep Learnin |
| 4 | CSE1818PE6* | Any other subject offered from time to time with University approval |
| OPEN ELECTIVE - 4 SUBJECTS | | |
| Sl. No | Subject Code | Subject |
| | CSE18180E41 | Artificial Intelligence |
| 2 | CSE18180E42 | Quantum Computing |
| 3 | CSE18180E43 | Optimization Techniques in Machine Learning |
| 4 | CSE18180E4* | Any other subject offered from time to time with University approval |
| OPEN ELECTIVE - 5 SUBJECTS | | |
| Sl. No | Subject Code | Subject |

| | CSE18180E51 | Internet of Things |
|---|---|---|
| 2 | CSE18180E52 | Computational Number Theory |
| 3 | CSE18180E53 | Electronic Design Automation |
| 4 | CSE18180E54 | Soft Computing |
| 5 | CSE18180E5* | Any other subject offered from time to time with the approval of the University |