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| J | ᄆ |

4 year BTech New Approved Curricula for Computer Science Engineering wef 2017-18 batch

| | | BTech I semester (B1) | | | |
|----|-------------|---|------------------|---------|---------|
| SN | Sub Code | Subject | Contact hours | Credits | Remarks |
| 1 | PD | Professional Dev – I | 3 | 3 | |
| 2 | MA | Mathematics-I | 4 | 4 | |
| 3 | PH | Physics-I | 4 | 4 | |
| 4 | EC | Electrical Circuit Analysis | 4 | 4 | |
| 5 | CS | Introduction to Computers and Programming | 4 | 4 | |
| 6 | PH | Physics Lab-I | 2 | 1 | |
| 7 | EC | Electrical Circuits Lab | 2 | 1 | |
| 8 | CS | Computer Programming Lab | 4 | 2 | |
| 9 | | Institutional Orientation | 2 | 0 | |
| | | Total | 29 | 23 | |
| | | | | | |

JES

4 year BTech New Approved Curricula for Computer Science Engineering wef 2017-18 batch

| | | BTech II semester (B2) | | | | | |
|----|------|------------------------------|---------|---------|---------|--|--|
| SN | Sub | | Contact | | | | |
| | Code | Subject | hours | Credits | Remarks | | |
| 1 | PD | Professional Dev – II | 3 | 3 | | | |
| 2 | MA | Mathematics-II | 4 | 4 | | | |
| 3 | PH | Physics-II | 4 | 4 | | | |
| 4 | EC | Basic Electronic Devices and | 4 | 4 | | | |
| | | Circuits | | | | | |
| 5 | CS | Data Structures | 4 | 4 | | | |
| 6 | PH | Physics Lab-II | 2 | 1 | | | |
| 7 | EC | Basic Electronics Lab | 2 | 1 | | | |
| 8 | CS | Data Structures and Computer | | | | | |
| | | Programming Lab | 4 | 2 | | | |
| 9 | CS | Departmental Orientation | 2 | 0 | | | |
| | | | | | | | |
| | | Total | 29 | 23 | | | |
| | IEO | | | | | | |

JES

4 year BTech New Approved Curricula for Computer Science Engineering wef 2017-18 batch

| | | BTech III semester (B3) | | | |
|----|-------------|---------------------------------|---------------|---------|---------|
| SN | Sub Code | Subject | Contact hours | Credits | Remarks |
| 1 | PD | Professional Dev – III | 3 | 3 | |
| 2 | MA | Mathematics-III | 4 | 4 | |
| 3 | EC | Digital Electronics | 4 | 4 | |
| 4 | CS | Object Oriented Programming | 4 | 4 | |
| 5 | CS | Database Systems | 4 | 4 | |
| 6 | EC | Digital Electronics Lab | 2 | 1 | |
| 7 | CS | Object Oriented Programming Lab | 2 | 1 | |
| 8 | CS | Database Systems Lab | 2 | 1 | |
| 9 | CS | Unix Programming Lab | 2 | 1 | |
| | | | | | |

| | | 1= · · | | | 1 | |
|---|---|--|--|--|-------------|--|
| | | Total | 27 | 23 | | |
| | | IEC | | | | |
| | | JES | | | | |
| 4 y | ear BTe | ch New Approved Curricula for Co | - | ience Eng | ineering | |
| | 1 | wef 2017-18 batc | | 1 | | |
| | | BTech IV semester (B4 | ·) | | | |
| CNI | Sub | | Contact | | | |
| SIN | Code | Subject | hours | Credits | Remarks | |
| 1 | PD | Professional Dev – IV | 3 | 3 | INCIIIAI NO | |
| 2 | MA | Mathematics-IV | 4 | 4 | | |
| 3 | EC | Signals and Systems | 4 | 4 | | |
| 4 | CS | Microprocessors and Controllers | 4 | 4 | | |
| 5 | CS | Fundamentals of Algorithms | 4 | 4 | | |
| 6 | EC | Signals and Systems Lab | 2 | 1 | | |
| 7 | CS | Microprocessors and Controllers | | | | |
| | | Lab | 2 | 1 | | |
| 8 | CS | Algorithms Lab | 2 | 1 | | |
| 9 | IT | Multimedia Development Lab I | 2 | 1 | | |
| | | Environmental Studies | 3 | 3 | | |
| | | Total | 30 | 26 | | |
| | | 1=0 | | | | |
| | | JES | | | | |
| 4 y | ear BTe | ch New Approved Curricula for Co | mputer Sc | ience Eng | ineering | |
| | | wef 2017-18 batc | | | | |
| | | BTech V semester (B5 |) | | | |
| | | | | | | |
| | | | 011 | | | |
| SN | Sub | Cultivat | Contact | One dite | Demonto | |
| | Code | Subject | hours | Credits | Remarks | |
| 1 | Code PD | Professional Dev – V | hours 3 | 3 | Remarks | |
| 1 2 | Code PD EC | Professional Dev – V Communication Systems | 3 4 | 3 4 | Remarks | |
| 1 2 3 | Code PD EC CS | Professional Dev – V Communication Systems Operating Systems | 3 4 4 | 3 4 4 | Remarks | |
| 1 2 3 4 | Code PD EC CS | Professional Dev – V Communication Systems Operating Systems Software Engineering | 3 4 4 4 | 3 4 4 4 | Remarks | |
| 1 2 3 4 5 | Code PD EC CS CS EC | Professional Dev – V Communication Systems Operating Systems Software Engineering Communication Systems Lab | 3 4 4 4 4 2 | 3 4 4 | Remarks | |
| 1 2 3 4 | Code PD EC CS CS EC CS | Professional Dev – V Communication Systems Operating Systems Software Engineering Communication Systems Lab Operating Systems Lab | 3 4 4 4 | 3 4 4 4 1 | Remarks | |
| 1 2 3 4 5 6 7 | Code PD EC CS CS CS EC CS CS | Professional Dev – V Communication Systems Operating Systems Software Engineering Communication Systems Lab Operating Systems Lab Software Engineering Lab | hours 3 4 4 4 2 2 2 2 | 3 4 4 4 1 1 | Remarks | |
| 1 2 3 4 5 6 | Code PD EC CS CS EC CS | Professional Dev – V Communication Systems Operating Systems Software Engineering Communication Systems Lab Operating Systems Lab | hours 3 4 4 4 2 2 | 3 4 4 4 1 1 | Remarks | |
| 1 2 3 4 5 6 7 8 | Code PD EC CS CS CS EC CS CS | Professional Dev – V Communication Systems Operating Systems Software Engineering Communication Systems Lab Operating Systems Lab Software Engineering Lab Web Technology Lab | hours 3 4 4 4 2 2 2 2 2 | 3 4 4 4 1 1 1 | Remarks | |
| 1 2 3 4 5 6 7 8 | Code PD EC CS CS EC CS IT | Professional Dev – V Communication Systems Operating Systems Software Engineering Communication Systems Lab Operating Systems Lab Software Engineering Lab Web Technology Lab DE-I | hours 3 4 4 4 2 2 2 2 3 | 3 4 4 4 1 1 1 1 3 | Remarks | |
| 1 2 3 4 5 6 7 8 | Code PD EC CS CS EC CS IT | Professional Dev – V Communication Systems Operating Systems Software Engineering Communication Systems Lab Operating Systems Lab Software Engineering Lab Web Technology Lab DE-I Project Part-I | hours 3 4 4 4 2 2 2 2 3 6 | 3 4 4 4 1 1 1 1 3 3 | Remarks | |
| 1 2 3 4 5 6 7 8 | Code PD EC CS CS EC CS IT | Professional Dev – V Communication Systems Operating Systems Software Engineering Communication Systems Lab Operating Systems Lab Software Engineering Lab Web Technology Lab DE-I | hours 3 4 4 4 2 2 2 2 3 6 | 3 4 4 4 1 1 1 1 3 3 | Remarks | |
| 1 2 3 4 5 6 7 8 9 | Code PD EC CS CS EC CS IT | Professional Dev – V Communication Systems Operating Systems Software Engineering Communication Systems Lab Operating Systems Lab Software Engineering Lab Web Technology Lab DE-I Project Part-I JES | hours 3 4 4 4 2 2 2 2 3 6 32 | 3 4 4 4 1 1 1 1 3 3 25 | | |
| 1 2 3 4 5 6 7 8 9 | Code PD EC CS CS EC CS IT | Professional Dev – V Communication Systems Operating Systems Software Engineering Communication Systems Lab Operating Systems Lab Software Engineering Lab Web Technology Lab DE-I Project Part-I | hours 3 4 4 4 2 2 2 2 3 6 32 | 3 4 4 4 1 1 1 1 3 3 25 | | |
| 1 2 3 4 5 6 7 8 9 | Code PD EC CS CS EC CS IT | Professional Dev – V Communication Systems Operating Systems Software Engineering Communication Systems Lab Operating Systems Lab Software Engineering Lab Web Technology Lab DE-I Project Part-I JES sch New Approved Curricula for Co | hours 3 4 4 4 2 2 2 2 3 6 32 mputer Sch | 3 4 4 4 1 1 1 1 3 3 25 | | |
| 1 2 3 4 5 6 7 8 9 | Code PD EC CS CS EC CS IT | Professional Dev – V Communication Systems Operating Systems Software Engineering Communication Systems Lab Operating Systems Lab Software Engineering Lab Web Technology Lab DE-I Project Part-I JES sch New Approved Curricula for Cowef 2017-18 batc | hours 3 4 4 4 2 2 2 2 3 6 32 mputer Sch | 3 4 4 4 1 1 1 1 3 3 25 | | |
| 1 2 3 4 5 6 7 8 9 | Code PD EC CS CS EC CS IT | Professional Dev – V Communication Systems Operating Systems Software Engineering Communication Systems Lab Operating Systems Lab Software Engineering Lab Web Technology Lab DE-I Project Part-I JES sch New Approved Curricula for Cowef 2017-18 batc | hours 3 4 4 4 2 2 2 2 3 6 32 mputer Sch | 3 4 4 4 1 1 1 1 3 3 25 | | |
| 1 2 3 4 5 6 7 8 9 10 | Code PD EC CS CS EC CS IT CS Vear BTe | Professional Dev – V Communication Systems Operating Systems Software Engineering Communication Systems Lab Operating Systems Lab Software Engineering Lab Web Technology Lab DE-I Project Part-I JES The New Approved Curricula for Communication Systems Lab Software Engineering Lab Web Technology Lab DE-I Project Part-I JES The New Approved Curricula for Communication Systems Lab Subject | hours 3 4 4 4 2 2 2 2 3 6 32 mputer Sch | 3 4 4 4 1 1 1 1 3 3 25 | | |
| 1 2 3 4 5 6 7 8 9 10 | Code PD EC CS CS EC CS IT CS vear BTe Sub Code PD | Professional Dev – V Communication Systems Operating Systems Software Engineering Communication Systems Lab Operating Systems Lab Software Engineering Lab Web Technology Lab DE-I Project Part-I JES The New Approved Curricula for Communication Systems Lab Software Engineering Lab Web Technology Lab DE-I Project Part-I JES The New Approved Curricula for Communication Systems Lab Subject Brech VI semester (B6) Subject Professional Dev – VI | hours 3 4 4 4 2 2 2 2 3 6 32 mputer Sch b) Contact hours 3 | 3 4 4 4 1 1 1 1 3 3 25 Credits 3 | ineering | |
| 1 2 3 4 5 6 7 8 9 10 | Code PD EC CS CS CS EC CS CS CS SUB CS | Professional Dev – V Communication Systems Operating Systems Software Engineering Communication Systems Lab Operating Systems Lab Software Engineering Lab Web Technology Lab DE-I Project Part-I JES The New Approved Curricula for Communication Systems Lab Software Engineering Lab Web Technology Lab DE-I Project Part-I Subject Professional Dev – VI Computer Networks | hours 3 4 4 4 2 2 2 2 3 6 32 mputer Sch) Contact hours | 3 4 4 4 1 1 1 1 3 3 25 Credits | ineering | |
| 1 2 3 4 5 6 7 8 9 10 | Code PD EC CS CS EC CS IT CS vear BTe Sub Code PD | Professional Dev – V Communication Systems Operating Systems Software Engineering Communication Systems Lab Operating Systems Lab Software Engineering Lab Web Technology Lab DE-I Project Part-I JES The New Approved Curricula for Computer Networks Computer Organisation and | hours 3 4 4 4 2 2 2 2 3 6 32 mputer Sch b) Contact hours 3 4 | 3 4 4 4 1 1 1 1 3 3 25 Credits 3 4 | ineering | |
| 1 2 3 4 5 6 7 8 9 10 SN | Code PD EC CS CS EC CS IT CS rear BTe Sub Code PD CS CS CS | Professional Dev – V Communication Systems Operating Systems Software Engineering Communication Systems Lab Operating Systems Lab Software Engineering Lab Web Technology Lab DE-I Project Part-I JES The New Approved Curricula for Computer VI semester (B6) Subject Professional Dev – VI Computer Networks Computer Organisation and Architecture | hours 3 4 4 4 2 2 2 2 2 3 6 32 mputer Sch b) Contact hours 3 4 | 3 4 4 4 1 1 1 1 3 3 25 Credits 3 4 | ineering | |
| 1 2 3 4 5 6 7 8 9 10 SN 1 2 3 | Code PD EC CS CS EC CS IT CS Vear BTe Sub Code PD CS | Professional Dev – V Communication Systems Operating Systems Software Engineering Communication Systems Lab Operating Systems Lab Software Engineering Lab Web Technology Lab DE-I Project Part-I JES The New Approved Curricula for Computer VI semester (B6) Subject Professional Dev – VI Computer Networks Computer Organisation and Architecture Computer Networks Lab | hours 3 4 4 4 2 2 2 2 3 6 32 mputer Sch b) Contact hours 3 4 | 3 4 4 4 1 1 1 1 3 3 25 Credits 3 4 | ineering | |
| 1 2 3 4 5 6 7 8 9 10 SN | Code PD EC CS CS EC CS IT CS rear BTe Sub Code PD CS CS CS | Professional Dev – V Communication Systems Operating Systems Software Engineering Communication Systems Lab Operating Systems Lab Software Engineering Lab Web Technology Lab DE-I Project Part-I JES The New Approved Curricula for Computer VI semester (B6) Subject Professional Dev – VI Computer Networks Computer Organisation and Architecture | hours 3 4 4 4 2 2 2 2 2 3 6 32 mputer Sch b) Contact hours 3 4 | 3 4 4 4 1 1 1 1 3 3 25 Credits 3 4 | ineering | |

| 6 | IT | Computer Graphics | 4 | 4 | |
|---|----|-----------------------|----|----|--|
| 7 | IT | Computer Graphics Lab | 2 | 1 | |
| 8 | CS | Project Part II | 6 | 3 | |
| 9 | CS | DE-II | 3 | 3 | |
| | | Total | 32 | 25 | |
| | | | | | |

| | | JES | | | | | |
|-----|-------------------------|------------------------------------|-----------|-----------|----------|--|--|
| 4) | ear BTe | ech New Approved Curricula for Cor | nputer Sc | ience Eng | ineering | | |
| - | wef 2017-18 batch | | | | | | |
| | BTech VII semester (B7) | | | | | | |
| | | | | | | | |
| SN | Sub | | Contact | | | | |
| | Code | Subject | hours | Credits | Remarks | | |
| 1 | PD | Professional Dev – VII | 3 | 3 | | | |
| 2 | CS | Software Testing and Debugging | 4 | 4 | | | |
| 3 | CS | Software Testing and Debugging La | | 1 | | | |
| 4 | CS | Theory of Computation | 4 | 4 | | | |
| 5 | | DE-III | 3 | 3 | | | |
| 6 | | DE-IV | 3 | 3 | | | |
| 7 | CS | Project Part III | 14 | 7 | | | |
| | | | | | | | |
| | | Total | 33 | 25 | | | |
| | | 1 | | | | | |
| | | JES | | | | | |
| 4 y | ear BTe | ech New Approved Curricula for Cor | nputer Sc | ience Eng | ineering | | |
| | | wef 2007-11 batch | 1 | | | | |
| | | BTech VIII semester (B8) |) | | | | |
| | | | | | | | |
| SN | Sub | | Contact | | | | |
| | Code | Subject | hours | Credits | Remarks | | |
| 1 | PD | Professional Dev – VIII | 3 | 3 | | | |
| 2 | CS | Compiler Design | 4 | 4 | | | |
| 3 | CS | Compiler Design Lab | 2 | 1 | | | |
| | | | T | | | | |
| 5 | | DE-V | 3 | 3 | | | |
| 6 | | DE-VI | 3 | 3 | | | |
| 7 | CS | Project Part IV | 17 | 7 | | | |
| 3 | PH | Material Science | 4 | 4 | | | |
| | | Total | 36 | 25 | | | |
| | | | | | | | |
| | | List of Electives | | | | | |
| | | (To be updated from time to time) | | | | | |
| | | 10 | | | | | |
| 1 | MA | Algebraic Number Theory | | | | | |
| 2 | BT | Bio-informatics | | | | | |
| 3 | IT | Computer Games | | | | | |
| 4 | IT | Cryptography and Network | | | | | |
| | | Security | | | | | |
| 5 | CS | Design of Algorithms | | | | | |
| 6 | CS | Embedded Systems | | | | | |
| 7 | IT | Human Aspects for Information | | | | | |
| | 00 | Technology | | | | | |
| 8 | CS | Image Processing | | | | | |
| 9 | IT | Information Retrieval and Data | | | | | |
| 10 | N A A | Mining | | | | | |
| 10 | MA | Integral Transforms | | | | | |
| 11 | EC | Mobile Communications | | | | | |
| 12 | IT | Network Management | | | | | |
| 13 | MA | Operation Research | | | | | |
| 14 | CS | Parallel Processing | | | | | |
| 15 | MA | Partial Differential Equations | | | | | |
| 16 | PH | Quantum Computing | | | <u> </u> | | |

| 17 | PH | Special Theory of Relativity | | |
|----|----|-----------------------------------|---------|---|
| 18 | CS | Systems Programming | | |
| 19 | MA | Abstract Algebra | | |
| 20 | CS | Artificial Intellegence | | |
| 21 | PH | Astrophysics | | |
| 22 | BT | Biosciences | | |
| 23 | CS | Computer Graphics | | |
| 24 | CS | | | |
| 25 | EC | Design of Database Sytems | | |
| | | Digital Signal Processing | | |
| 26 | MA | Game Theory | | |
| 27 | PH | General Theory of Relativity | | |
| 28 | CS | Graph Algorithms and Applications | | |
| 29 | MA | Graph Theory | | |
| 30 | EC | Information Theory and | | |
| | | Applications | | |
| 31 | IT | Learning Sciences and Technology | | |
| 32 | CS | Multi-Dimensional Data Structures | | |
| 33 | PH | Nano Science and Technology | | |
| 34 | CS | Network Programming | | |
| 35 | MA | Numerical Analysis | | |
| 36 | CS | Principles of Programming | | |
| | | Languages | | |
| 37 | ΙΤ | Research Methodology | | |
| 38 | CS | Soft Computing | | |
| 39 | CS | Software Engineering Management | | |
| | | | | |
| | | Credit Summary | Credits | |
| | | Sem1 | 23 | |
| | | Sem2 | 23 | |
| | | Sem3 | 23 | |
| | | Sem4 | 26 | |
| | | Sem5 | 25 | |
| | | Sem6 | 25 | |
| | | Sem7 | 25 | |
| | | Sem8 | 25 | |
| | | Total | 195 | |
| | | . 0.0 | | 1 |