Implementation of National Education Policy (NEP) 2020 for the session 2022-23 B. Tech. students

- Student centric flexible curriculum.
- Multi-disciplinary learning based curriculum.
- Ability Enhancement Compulsory course, Skill Enhancement Compulsory Course, Value Added Course, Product Design and Development, and Do It Yourself (DIY) are some of the significant features in the curriculum.
- Compulsory Internship.
- Multiple Exit and Multiple Entry
  a. Certificate in Engineering after completion of first year.
  b. Diploma in Engineering after completion of second year.
  c. Advanced Diploma in Engineering after completion of third year.
  d. Degree in Engineering after completion of fourth year.

Percentage wise distribution of subject category

- Science Core (SC)
- Engg. Science and Arts (ESA)
- Department Specific Core (DSC)
- Department Specific Elective (DSE)
- Open Elective (OE)
- Ability Enhancement Compulsory Course (AECC)
- Skill Enhancement Compulsory Course (SKCC)
- Value Added Course (VAC)/Dissertation
- Laboratory
## Course Structure for Department of Civil Engineering

### First Year

#### Semester I

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**Contact hours** | **17** | **0** | **8**

**Total Credit** | **22**

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**Contact hours** | **17** | **0** | **8**

**Total Credit** | **22**
# Course Structure for Department of Civil Engineering

## Second Year

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**Contact hours:** 18 0 6

**Total Credit:** 21

### Semester IV

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**Contact hours:** 18 0 6

**Total Credit:** 21
# Course Structure for Department of Civil Engineering

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### Course Structure for Department of Civil Engineering

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**Contact hours** | **15** | **0** | **8** |

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**Contact hours** | **6** | **0** | **22** |

**Total Credit** | **17** |

NB: Detailed syllabus is found in departmental webpage.
## Course Structure for Department of Computer Science and Engineering

### First Year

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| Contact Hours | 15 | 0 | 14 | 22 |
| Total Credits |   |   |   | 22 |

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| Contact Hours | 17 | 0 | 8 | 22 |
| Total Credits |   |   |   | 22 |
## Course Structure for Department of Computer Science and Engineering

### Second Year

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**Contact Hours** | 18 | 0 | 6 | 21

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**Contact Hours** | 18 | 0 | 4 | 20

**Total Credits** | 20
### Course Structure for Department of Computer Science and Engineering

#### Third Year

#### Semester V

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**Contact Hours**: 17 0 10

**Total Credits**: 23

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**Contact Hours**: 18 0 14

**Total Credits**: 25
# Course Structure for Department of Computer Science and Engineering

## Fourth Year

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**Contact Hours**: 10 0 18

**Total Credits**: 20

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**Contact Hours**: 6 0 22

**Total Credits**: 17

**NB**: Detailed syllabus is found in departmental webpage.
## Course Structure for Department of Mechanical Engineering

### First Year

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**Total Credits** | 15  | 0  | 14  |

### Semester II

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**Contact Hours** | 17  | 0  | 8  |

**Total Credits** | 22  | 0  | 14  |

Contact Hours

Total Credits 22
# Course Structure for Department of Mechanical Engineering

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**Contact Hours** 15 3 6

**Total Credits** 21

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**Contact Hours** 16 2 6

**Total Credits** 21
# Course Structure for Department of Mechanical Engineering

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**Contact Hours** 18 0 10

**Total Credits** 24

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**Contact Hours** 18 0 10

**Total Credits** 23
## Course Structure for Department of Mechanical Engineering

### Fourth Year

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**Contact Hours**

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**Total Credits**

| Total Credits | 20 |

NB: Detailed syllabus is found in departmental webpage.
# Course Structure for Department of Electrical Engineering

## First Year

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**Total Credits**: 22

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**Total Contact Hours**: 17 0 8  
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## Course Structure for Department of Electrical Engineering

### Second Year

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Contact Hours 18 0 6
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Total Credits: 24

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Total Credits: 24
# Course Structure for Department of Electrical Engineering

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## Semester VIII

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**Total Credits**

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NB: Detailed syllabus is found in departmental webpage.
## Course Structure for Department of Electronics and Communication Engineering

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**Contact Hours** 17  0  8  **Total Credits** 22
## Course Structure for Department of Electronics and Communication Engineering

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**Total Credits** 20

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**Contact Hours** 18 0 6

**Total Credits** 21
Course Structure for Department of Electronics and Communication Engineering

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**Total Credits**: 23
### Course Structure for Department of Electronics and Communication Engineering

#### Fourth Year

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### Semester VIII

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NB: Detailed syllabus is found in departmental webpage.
Academic Bank of Credits (ABC)

About:

As per National Education Policy 2020, the Academic Bank of Credits (ABC) has been envisaged to facilitate the academic mobility of students with the freedom to study across the Higher Education Institutions in the country with an appropriate "credit transfer" mechanism from one programme to another, leading to attain a Degree/ Diploma/PG-diploma, etc.,

The registration of institutions and services will be a critical function of the academic bank of credit. ABC shall deposit credits awarded by registered institutions into students' accounts. The Academic bank credit(s) can only be shared from institutions, not directly from the student. Only credits submitted by an authorized institution will be accepted for storage and validation by the ABC.

Features:

• Allows academic institutions to lodge and maintain the integrity of the credits
• Maintains the authenticity and confidentiality of student credits
• Easy credit transfer through digital mode
• Faster credit recognition

Benefits:

• Allows multiple entry, multiple exit for students
• Stores student credit for a minimum shelf life of 7 years
• Transfer credit through a single window after approval of source and destination academic institution
• Only verified academic institutions can upload credits
• Improves transparency and helps to build a more flexible approach to curriculum design and development

Process:

The credits earned by students will be deposited in their ABC ‘Academic Account.’ If the student moves to a different institution, the accumulated credits get transferred to the account of the new institution. Credits may be transferred from an institution to be accumulated in another programme offered by the same or another institution. Once the credit is redeemed for the award of the above, it would be irrevocably debited from the respective student’s ‘Academic Account’ of ABC.
3A’S:

**Allocation:** The process of assigning a number of credits to qualifications, degree programmes or single educational components. Credits are allocated to entire qualifications or programmes according to respective Universities or Autonomous institutions participating in the ABC scheme.

**Accumulation:** A student can accumulate credits in order to obtain qualifications, as required by the degree-awarding institution, or to document personal achievements for lifelong learning purposes.

**Awarding:** The act of formally granting students and other learners the credits that are assigned to the qualification and/or its components if they achieve the defined learning outcomes. Credits are awarded to individual students after they have completed the required learning activities and achieved the defined learning outcomes, as evidenced by appropriate assessment.

**ABC for programme design, delivery and monitoring:**

The use of ABC credits improves transparency and helps to introduce a more flexible approach to curriculum design and development. The institutional credit framework is aimed at to cater the needs of different programmes and support inter and multi disciplinary approaches.

**ABC for mobility and credit recognition**

Successful learning mobility requires academic recognition and transfer of credits. Recognition of credits is the process through which an institution certifies that learning outcomes achieved and assessed in another institution satisfy the requirements of one of the programmes they offer.

Source: https://www.abc.gov.in