Department of Mechanical Engineering Proposed First year structure 23-24 as per NEP 2020

| Semester I | | | | | | | | | | |
|--------------------|---------------------------------|--|---|---|----|--------------------------|-----|-----|-------|-------------------|
| Course Category | Category under NEP | Course Title Induction Program | Teaching Scheme | | | Evaluation Scheme | | | | |
| | | | L | Т | P | CA | MSE | ESE | Total | No. of Credits |
| | | | 3-weeks duration in the beginning of the semester | | | | | | | |
| BSC1 | Mandatory: Major | Engineering Mathematics- I | 3 | 1 | - | | | | | 4 |
| ESC1 | Mandatory: Major | Engineering Graphics | 2 | | - | | | | | 2 |
| ESC2 | Minor | Basic Electronics | 2 | - | - | | | | | 2 |
| BSC2 | Open Electives | Engineering Physics/Engg. Chemistry | 3 | - | - | | | | | 3 |
| HSSM1 | Ability Enhance course | Communication Skill | 2 | - | - | | | | | 2 |
| ESC3 | Open Electives (Self Study) | Energy and Environment Engineering | | - | - | | | | | Audit |
| BSC3 | Open Electives | Engineering Physics Lab/Engg. Chemistry lab | 1 | - | 2 | | | | | 1 |
| ESC4 | Skill Enhancemen t course | Engineering Graphics Lab | - | - | 4 | | | | | 2 |
| HSSM2 | Ability Enhance course | Communication Skills Lab | 1 | - | 2 | | | | | 1 |
| PCC1 | Vocational Skill courses | Workshop practice such as fitting, welding, turning, etc | | | 4 | | | | | 2 |
| HSSM3 | Co- curricular courses | Life skill in modern life /Health and Yoga /UHV | 1 | | - | | | | | 1 |
| ESC4 | Minor | Basic Electronics Lab | | | 2 | | | | | 1 |
| | | Total | 14 | 1 | 14 | 330 | 100 | 420 | 850 | 21 |

| Semester II | | | | | | | | | | |
|--------------------|---------------------------------|---|------------------------|---|----|--------------------------|-----|-----|-------|-------------------|
| Course Category | Category under NEP | Course Title | Teaching Scheme | | | Evaluation Scheme | | | | |
| | | | L | Т | P | CA | MSE | ESE | Total | No. of Credits |
| BSC4 | Mandatory: Major | Engineering Mathematics- II | 3 | 1 | - | | | | | 4 |
| ESC5 | Mandatory: Major | Engineering Mechanics | 3 | | - | | | | | 3 |
| ESC6 | Minor | Computer Programming | 2 | - | - | | | | | 2 |
| BSC5 | Open Electives | Engineering Physics/Engg. Chemistry | 3 | - | - | | | | | 3 |
| ESC3 | Open Electives (Self Study) | Energy and Environment Engineering | | - | - | | | | | Audit |
| BSC6 | Open Electives | Engineering Physics Lab/Engg. Chemistry lab | - | - | 2 | | | | | 1 |
| ESC7 | Minor | Computer Programmimg Lab | - | - | 2 | | | | | 1 |
| HSSM4 | Ability Enhance course | Report writing and presentation skills | 1 | 1 | | | | | | 2 |
| PCC2 | Skill Enhancemen t course | Auto Cad | | | 2 | | | | | 1 |
| PCC3 | Vocational Skill courses | Basic Mechanical Practices skill based training | | | 2 | | | | | 1 |
| ESC8 | Indian Knowledge System | Ancient weapons Technology | | | | | | | | 1 |
| HSSM3 | Co- curricular courses | NSS/NCC/ Sports | | | 4 | | | | | 2 |
| ESC9 | Minor | Engg Mechanics Lab | | | 2 | | | | | 1 |
| | | Total | 12 | 2 | 14 | | | | | 22 |

Total Credit 21 + 22 = 43 Cr

Plus 4 credit (120 hrs) compulsory to get the certificate in case opt for exit of operator levels such as CNC turning/ Mechanical Draftsman/3 D printing/Ref and Ac repair/Joining practices/vehicle maintenance or else no need