

Vivekanand College, Kolhapur (Empowered Autonomous)
Department of B.Voc. Foundry Technology
Credit Framework under Three/Four- Years UG Programme
Department/Subject Specific Core or Major (DSC)

| Level | Semester | 1-Major | | 2-Minor | 3-OE | 4-VSEC | 5-AEC, VAC, VEC, IKS | | | 6-OJT, FP, CEP, CC, RP | | | Total Credits | |
|---|----------|--------------------------------------|-----|--|-------------------------|--|---|---|---|---------------------------------|---|---------------------------------|---------------|----|
| | | Major | | Minor | IDC/MDC/OE/GE | VSC/SEC | AEC (Language) | Value Education Courses (VEC) | IKS | CC | Summer Internship/ Field Project /OJT/CEP | Research Project / Dissertation | | |
| | | DSC | DSE | MIN | OEC | | | | | | | | | |
| 4.5 | I | DSC-I (2) Moulding Technology | | MIN-I (2) Pattern Construction Technology | OEC-I (4) 2D CAD-I | VSC-I(4) Engineering Graphics – I | AEC-I (2) English For Business Communication-I | VEC- I (2) Democracy, Election & Good Governance | IKS (2) History of Engineering Materials | | | | | |
| | Credits | 10 | | 6 | 4 | 4 | 2 | 2 | 2 | | | - | 30 | |
| | II | DSC-II (2) Melting Technology | | MIN-II (2) Casting Processes | OEC-I I(4) 2D CAD-II | VSC-II (4) Engineering Graphics –II | AEC-II (2) English For Business Communication-II | | | CC-I (2) Disaster Management | | | | |
| Credits | 10 | | 6 | 4 | 6 | 2 | - | - | 2 | | | - | 30 | |
| 1 st year Cumulative Credits | | 20 | | 12 | 8 | 10 | 4 | 2 | 2 | 2 | | - | - | 60 |
| 5.0 | III | DSC-III (2) Physical Metallurgy-I | | MIN-III (2) Fuel, Furnaces and Refractories | OEC-III (4) 3D CAD-I | VSC-III (4) Machine Drawing | AEC-III (2) Financial Accounting | VEC-II (2) Environmental Studies-I | | | | | | |
| | Credits | 12 | | 6 | 4 | 4 | 2 | 2 | | | | - | 30 | |

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| | IV | DSC-V (2) Physical Metallurgy-II DSC-VI (2) Testing and Inspection Techniques DSC-VII (4) Mechanical Testing -I DSC-PR-VIII (4) Mechanical Testing -II | | MIN-IV (2) Steel Casting Production MIN-PR-IV(4) Heat Treatment Processes | OEC-IV (4) 3D CAD-II | VSC-IV (4) Non-Ferrous Casting Production | AEC-IV (2) Professional Practices | VEC-III (2) Environmental Studies-II | | | | | |
| | Credits | 12 | | 6 | 4 | 4 | 2 | 2 | | | | - | 30 |
| 2nd year | Cumulative Credits | 24 | | 12 | 8 | 8 | 4 | 4 | | | | | 60 |
| 5.5 | V | DSC-VII (2) Quality Control DSC-PR-IX (4) Quality Control Tools | DSE-I (2) Secondary Steel Making DSE-PR-I(4) Advanced Metal Testing -I | MIN-V (2) Entrepreneurship Development MIN-PR-V (4) Business Report | - | | | - | | - | Internship-I (4) | FP-I (8) Project-I | |
| | Credits | 6 | 6 | 6 | - | | | - | | | 4 | 8 | 30 |
| | VI | DSC-VIII (2) Fracture Mechanics and Failure Analysis DSC-PR-X(4) Identification Of Failures In Casting | DSE-II (2) Welding and Salvaging Processes DSE-PR-II(4) Advanced Metal Testing -II | MIN-VI (2) Non Destructive Techniques MIN-PR-VI (4) Defects Analysis-II | - | | | - | | - | Internship-II (4) | FP-II (8) Project -II | |
| | Credits | 6 | 6 | 6 | - | | | - | | | 4 | 8 | 30 |
| 3rd year | Cumulative Credits | 12 | 12 | 12 | - | - | - | - | - | - | 8 | 16 | 60 |
| 3-years | Cumulative Credits | 68 MAJ | | 36 Minor | 16 IDC/MDC/OE/GE | 16/2 VSC/SEC | 8 AEC | 6 VEC | 2 IKS | 2 CC | 8 FP/OJT/CEP | 16 Project | 180/180 |

Abbr :-

