

M.E. Design Engineering

| Semester-wise Pattern for Students Admitted to Higher Degree Programmes | | | | | | | |
|---|----------------|------|----------------------------------|--------|-----------------|------------------------------------|--------|
| Year | First Semester | | | U | Second Semester | | U |
| M.E. Design Engineering | | | | | | | |
| I | DE | G631 | Materials Testing and Technology | 5 | BITS G540 | Research Practice | 4 |
| | ME | G511 | Mechanism and Robotics | 5 | ME G611 | Computer Aided Analysis and Design | 5 |
| | ME | G512 | Finite Element Methods Elective | 5 * | | Elective Elective | * * |
| | | | | 18 | | | 15 |
| II | DE | G531 | Product Design | 5 | BITS G629T | Dissertation | 16 |
| | DE | G611 | Dynamics and Vibration Elective | 5 * | or | | 20 |
| | | | Elective | * | BITS G639 | Practice School | 20 |
| | | | | 16 | | | 16/20 |

List of Discipline Electives

| Course No. | Course | Units |
|------------|---|-------|
| DE G513 | Tribology | 5 |
| DE G514 | Fracture Mechanics | 5 |
| DE G522 | Design Projects | 5 |
| EA C415 | Introduction to MEMS | 4 |
| ME F423 | Micro Fluidics and its Application | 4 |
| ME G535 | Advanced Engineering Mathematics | 5 |
| ME G515 | Computational Fluid Dynamics | 5 |
| ME G521 | Mechanical System Design | 5 |
| ME G532 | Machine Tool Engineering | 5 |
| ME G612 | Plastics Engineering | 5 |
| ME G641 | Theory of Elasticity and Plasticity | 5 |
| MSE G511 | Mechatronics | 5 |
| MSE G531 | Concurrent Engineering | 5 |
| MST G511 | Nondestructive Testing Techniques | 5 |
| MST G522 | Advanced Composites | 5 |
| MST G531 | Experimental Stress Analysis Techniques | 5 |