**M.D. UNIVERSITY, ROHTAK**

**SCHEME OF STUDIES AND EXAMINATION**

**Bachelor of Technology**

**Scheme effective from 2018-19**

**SEMESTER 1st (Common for all branches)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sr. No. | Category | Course Notation | Course Code | Course Title | Hours per week | Total Contact hrs/week | Credit | Examination Schedule (Marks) | Duration of Exam (Hours) |
| L | T | P | Mark of Class work | Theory | Practical | Total |
| 1 | Basic Science Course | A | Refer to Table 1 | Physics-1 | 3 | 1 | 0 | 4 | 4 | 25 | 75 |   | 100 | 3 |
| B | BSC-CH-101G | Chemistry-1 | 3 | 1 | 0 | 4 | 4 | 25 | 75 |   | 100 | 3 |
| 2 | Basic Science Course | C | Refer to Table 2 | Mathematics-I | 3 | 1 | 0 | 4 | 4 | 25 | 75 |   | 100 | 3 |
| 3 | Engineering Science Course  | A | ESC-EE-101G | Basic Electrical Engineering | 3 | 1 | 0 | 4 | 4 | 25 | 75 |   | 100 | 3 |
| Engineering Science Course  | B | Refer to Table 3 | Programming for Problem Solving | 3 | 0 | 0 | 3 | 3 | 25 | 75 |   | 100 | 3 |
| 4 | Engineering Science Course  | A | ESC-ME-101G | Engineering Graphics & Design | 1 | 0 | 4 | 5 | 3 | 25 |   | 75 | 100 | 3 |
| B | ESC-ME-102G  | Workshop Technology | 1 | 0 | 0 | 1 | 1 | 25 | 75 |   | 100 | 3 |
| 5 | Basic Science Course | A | Refer to Table 1 | Physics Lab-1 | 0 | 0 | 3 | 3 | 1.5 | 25 |   | 25 | 50 | 3 |
| B | BSC-CH-102G | Chemistry Lab-1 | 0 | 0 | 3 | 3 | 1.5 | 25 |   | 25 | 50 | 3 |
| 6 | Engineering Science Course  | A | ESC-EE-102G | Basic Electrical Engineering Lab | 0 | 0 | 2 | 2 | 1 | 25 |   | 25 | 50 | 3 |
| B | Refer to Table 3 | Programming in C Lab | 0 | 0 | 4 | 4 | 2 | 25 |   | 25 | 50 | 3 |
| 7 | Engineering Science Course  | B |  ESC-ME-103G | Manufacturing Practices Lab | 0 | 0 | 4 | 4 | 2 | 25 |   | 25 | 50 | 3 |
| 8 | Humanities and Social science including Management courses | C | HSMC-ENG-101G | English | 2 | 1 | 0 | 3 | 3 | 25 | 75 |   | 100 | 3 |
| **TOTAL CREDIT** | **20.5** | **175/200** | **300/375** | **125/75** | **600/650** |  |

**M.D. UNIVERSITY**

**SCHEME OF STUDIES AND EXAMINATION**

**Bachelor of Technology**

**Scheme effective from 2018-19**

**SEMESTER 2nd (Common for all branches)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sr. No. | Category | Course Notation | Course Code | Course Title | Hours per week | Total Contact hrs/week | Credit | Examination Schedule (Marks) | Duration of Exam (Hours) |
| L | T | P | Mark of Class work | Theory | Practical | Total |
| 1 | Basic Science Course | B | Refer to Table 1 | Physics-1 | 3 | 1 | 0 | 4 | 4 | 25 | 75 |   | 100 | 3 |
| A | BSC-CH-101G | Chemistry-1 | 3 | 1 | 0 | 4 | 4 | 25 | 75 |   | 100 | 3 |
| 2 | Basic Science Course | C | Refer to Table 2 | Mathematics-II | 3 | 1 | 0 | 4 | 4 | 25 | 75 |   | 100 | 3 |
| 3 | Engineering Science Course  | B | ESC-EE-101G | Basic Electrical Engineering | 3 | 1 | 0 | 4 | 4 | 25 | 75 |   | 100 | 3 |
| Engineering Science Course  | A | Refer to Table 3 | Programming for Problem Solving | 3 | 0 | 0 | 3 | 3 | 25 | 75 |   | 100 | 3 |
| 4 | Engineering Science Course  | B | ESC-ME-101G | Engineering Graphics & Design | 1 | 0 | 4 | 5 | 3 | 25 |   | 75 | 100 | 3 |
| A | ESC-ME-102G  | Workshop Technology | 1 | 0 | 0 | 1 | 1 | 25 | 75 |   | 100 | 3 |
| 6 | Basic Science Course | B | Refer to Table 1 | Physics Lab-1 | 0 | 0 | 3 | 3 | 1.5 | 25 |   | 25 | 50 | 3 |
| A | BSC-CH-102G | Chemistry Lab-1 | 0 | 0 | 3 | 3 | 1.5 | 25 |   | 25 | 50 | 3 |
| 7 | Engineering Science Course  | B | ESC-EE-102G | Basic Electrical Engineering Lab | 0 | 0 | 2 | 2 | 1 | 25 |   | 25 | 50 | 3 |
| A | Refer to Table 3 | Programming in C Lab | 0 | 0 | 4 | 4 | 2 | 25 |   | 25 | 50 | 3 |
| 8 | Humanities and Social science including Management courses | C | HSMC-ENG-102G | Language Lab | 0 | 0 | 2 | 2 | 1 | 25 |   | 25 | 50 | 3 |
| 9 | Engineering Science Course  | A |  ESC-ME-103G | Manufacturing Practices Lab | 0 | 0 | 4 | 4 | 2 | 25 |   | 25 | 50 | 3 |
| **TOTAL CREDIT** | **18.5** | **200/175** | **225/300** | **175/75** | **600/550** |  |

**Note:** Examiner will set nine questions in total. Question one will be compulsory. Question one will have 6 parts of 2.5 marks each from all units and remaining eight questions of 15 marks each to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

**Important Notes:**

1. Significance of the Course Notations used in this scheme

C = These courses are common to both the groups (Group-A and Group –B).

A = Other compulsory courses for Group-A.

B = Other compulsory courses for Group-B.

**Course code for different branches**

**Table 1**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Course Name**  | **Course Code** | **Branch** |
| 1. | Introduction to Electromagnetic Theory | BSC-PHY-101G | * Electronics and Communication Engineering
* Electronics and Computer Engineering
* Electronics and Telecommunication Engineering
* Mechanical Engineering
* Fire Technology and Safety Engineering
* Mechanical and Automation Engineering
* Automobile Engineering
 |
| 2. | Waves and Optics & Quantum Mechanics | BSC-PHY-102G | * Electrical Engineering
* Electronics and Electrical Engineering
 |
| 3. | Semiconductor Physics | BSC-PHY-103G | * Computer Science Engineering
* Information Technology
* Computer Science and Information Technology
 |
| 4. | Mechanics | BSC-PHY-104G | * Civil Engineering
* Printing Technology
 |
| 5. | Optics, Optical Fibre, Magnetism and Quantum Mechanics | BSC-PHY-105G | * Bio-Technology Engineering
* Textile Technology
* Textile Chemistry
* Fashion and Apparel Engineering
 |
| 6. | Introduction to Electromagnetic Theory (IEMT) Lab | BSC-PHY-111G | * Electronics and Communication Engineering
* Electronics and Computer Engineering
* Electronics and Telecommunication Engineering
* Mechanical Engineering
* Fire Technology and Safety Engineering
* Mechanical and Automation Engineering
* Automobile Engineering
 |
| 7. | Wave Optics & Quantum Mechanics Lab | BSC-PHY-112G | * Electrical Engineering
* Electronics and Electrical Engineering
 |
| 8. | Semiconductor Physics Lab | BSC-PHY-113G | * Computer Science Engineering
* Information Technology
* Computer Science and Information Technology
 |
| 9. | Mechanics Lab | BSC-PHY-114G | * Civil Engineering
* Printing Technology
 |
| 10. | Optics, Optical Fibre, Magnetism and Quantum Mechanics (OFMQ | BSC-PHY-115G | * Bio-Technology Engineering
* Textile Technology
* Textile Chemistry
* Fashion and Apparel Engineering
 |

**Table 2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Course Name**  | **Course Code** | **Branch** |
| 1. | Math-I (Calculus and Matrices) | BSC-MATH-101G | * Mechanical Engineering
* Electronics and Communication Engineering
* Civil Engineering
* Electrical Engineering
* Electronics and Electrical Engineering
* Printing Technology
* Automobile Engineering
* Mechanical and Automation Engineering
* Electronics and Computer Engineering
* Fire Technology and Safety Engineering
* Electronics and Telecommunication Engineering
* Textile Technology
* Textile Chemistry
* Fashion and Apparel Engineering
 |
| 2. | Math-I (Calculus and Linear Algebra) | BSC-MATH-103G | * Computer Science Engineering
* Information Technology
* Computer Science and Information Technology
 |
| 3. | Math-I (Series, Matrices and Calculus) | BSC-MATH-105G | * Bio-Technology Engineering
 |
| 4. | Math-II (Multivariable Calculus, Differential equations and Complex Analysis) | BSC-MATH-102G | * Mechanical Engineering
* Electronics and Communication Engineering
* Civil Engineering
* Electrical Engineering
* Electronics and Electrical Engineering
* Printing Technology
* Automobile Engineering
* Mechanical and Automation Engineering
* Electronics and Computer Engineering
* Fire Technology and Safety Engineering
* Electronics and Telecommunication Engineering
* Textile Technology
* Textile Chemistry
* Fashion and Apparel Engineering
 |
| 5. | Math-II (Probability and Statistics) | BSC-MATH-104G | * Computer Science Engineering
* Information Technology
* Computer Science and Information Technology
 |
| 6. | Math-II (Vector Calculus, Differential equations and Laplace Transform) | BSC-MATH-106G | * Bio-Technology Engineering
 |

**Table 3**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Course Name** | **Course Code** | **Branch** |
| 1. | Programming for Problem Solving | ESC-CSE101G | * Computer Science and Engineering
* Electronics and communication Engineering
* Information Technology
* Computer Science and Information Technology
* Electronics and Electrical Engineering
 |
| ESC-CSE102G | For all remaining branches of B.Tech |
| 2. | Programming in C Lab | ESC-CSE103G | * Computer Science and Engineering
* Electronics and communication Engineering
* Information Technology
* Computer Science and Information Technology
* Electronics and Electrical Engineering
 |
| ESC-CSE104G | For all remaining branches of B.Tech |