

**B.Tech 1<sup>st</sup> Year (2025-2029 Batch)**

**KIET GROUP OF INSTITUTIONS**  
**(An Autonomous Institution, Affiliated to AKTU, Lucknow, UP)**

Approved by AICTE, New Delhi

Delhi-NCR, Ghaziabad-Meerut Road, Ghaziabad-201206

**Advance Mechatronics and Industrial Automation (AM & IA)**

**1<sup>st</sup> Year**

**EVALUATION SCHEME**

**Effective from the Session: 2025-26**

**B.Tech 1<sup>st</sup> Year (2025-2029 Batch)**

**B.Tech (AM&IA) 1<sup>st</sup> Sem**

| S No.                        | Course Category (AICTE) | Course Category (UGC)          | BOS    | Course Code   | Course Name                                            | Type | Academic Learning (AL) |          |           | Continuous Internal Examination (CIE) |    |       | End Sem Examination (ESE) | Total Marks | Total Credits |
|------------------------------|-------------------------|--------------------------------|--------|---------------|--------------------------------------------------------|------|------------------------|----------|-----------|---------------------------------------|----|-------|---------------------------|-------------|---------------|
|                              |                         |                                |        |               |                                                        |      | L                      | T        | P         | MSE                                   | CA | TOTAL |                           |             |               |
| 1                            | BS                      | Major (Core)                   | ASH    | MA101L        | Calculus for Engineers                                 | L    | 3                      | 1        | 0         | 80                                    | 20 | 100   | 100                       | 200         | 4             |
| 2                            | BS                      | Minor Stream                   | ASH    | CH101L        | Environmental Chemistry                                | L    | 2                      | 0        | 0         | 40                                    | 10 | 50    | 50                        | 100         | 2             |
| 3                            | PC                      | Major (Core)                   | ME     | ME103L        | Fundamentals of Mechatronics and Industrial Automation | L    | 2                      | 0        | 0         | 40                                    | 10 | 50    | 50                        | 100         | 2             |
| 4                            | ES                      | Minor Stream                   | IT     | IT101L        | Programming For Problem Solving                        | L    | 3                      | 0        | 0         | 60                                    | 15 | 75    | 75                        | 150         | 3             |
| 5                            | ES                      | Minor Stream                   | EEE    | EE102L        | Explorations in Electrical Engineering                 | L    | 2                      | 0        | 0         | 40                                    | 10 | 50    | 50                        | 100         | 2             |
| 6                            | PW                      | Value Added Courses for all UG | CSIT   | IT103L        | Design Thinking                                        | L    | 1                      | 0        | 0         | -                                     | 50 | 50    | -                         | 50          | 1             |
| <b>Blended</b>               |                         |                                |        |               |                                                        |      |                        |          |           |                                       |    |       |                           |             |               |
| 7                            | ES                      | Minor Stream                   | EEE/ME | EE112B/ME101B | Introduction to IoT/ Design and Realization            | B    | 2                      | 0        | 2         | 60                                    | 15 | 75    | 75                        | 150         | 3             |
| <b>Lab/Practical</b>         |                         |                                |        |               |                                                        |      |                        |          |           |                                       |    |       |                           |             |               |
| 8                            | ES                      | Minor Stream                   | IT     | IT101P        | Programming For Problem Solving Lab                    | P    | 0                      | 0        | 4         | -                                     | 50 | 50    | 50                        | 100         | 2             |
| 9                            | ES                      | Minor Stream                   | EEE    | EE102P        | Explorations in Electrical Engineering Lab             | P    | 0                      | 0        | 2         | -                                     | 25 | 25    | 25                        | 50          | 1             |
| 10                           | HS                      | Value Added Courses for all UG | ASH    | HS101P/HS1XXP | Communication Skills/ Foreign Language                 | P    | 0                      | 0        | 4         | 40                                    | 10 | 50    | 50                        | 100         | 2             |
| 11                           | MC                      | Value Added Courses for all UG | ASH    | HS164P        | Indian Knowledge System                                | P    | 0                      | 0        | 2         | -                                     | 50 | 50    | -                         | -           | NC            |
| <b>Total Hours : 30 hrs.</b> |                         |                                |        |               |                                                        |      | <b>15</b>              | <b>1</b> | <b>14</b> |                                       |    |       |                           | <b>1100</b> | <b>22</b>     |

**B.Tech 1<sup>st</sup> Year (2025-2029 Batch)**

**B. Tech (AM&IA) 2<sup>nd</sup> Sem**

| S No.                        | Course Category<br>(AICTE) | Course Category<br>(UGC)       | BOS       | Course Code   | Course Name                                  | Type | Academic Learning (AL) |          |           | Continuous Internal Examination (CIE) |    |       | End Sem Examination (ESE) | Total Marks | Total Credits |
|------------------------------|----------------------------|--------------------------------|-----------|---------------|----------------------------------------------|------|------------------------|----------|-----------|---------------------------------------|----|-------|---------------------------|-------------|---------------|
|                              |                            |                                |           |               |                                              |      | L                      | T        | P         | MSE                                   | CA | TOTAL |                           |             |               |
| 1                            | BS                         | Major (Core)                   | ASH       | MA104L        | Differential Equations & Complex Integration | L    | 3                      | 1        | 0         | 80                                    | 20 | 100   | 100                       | 200         | 4             |
| 2                            | BS                         | Minor Stream                   | ASH       | PH101L        | Semiconductor Physics and Devices            | L    | 3                      | 0        | 0         | 60                                    | 15 | 75    | 75                        | 150         | 3             |
| <b>Blended</b>               |                            |                                |           |               |                                              |      |                        |          |           |                                       |    |       |                           |             |               |
| 3                            | ES                         | Minor Stream                   | CSE       | CS201B        | Data Structure                               | B    | 3                      | 0        | 2         | 80                                    | 20 | 100   | 100                       | 200         | 4             |
| 4                            | ES                         | Minor Stream                   | ME/EEE    | ME101B/EE112B | Design and Realization/Introduction to IoT   | B    | 2                      | 0        | 2         | 60                                    | 15 | 75    | 75                        | 150         | 3             |
| 5                            | PC                         | Minor Stream                   | EEE       | EE103B        | Emerging Technologies for Engineers          | B    | 2                      | 0        | 2         | 60                                    | 15 | 75    | 75                        | 150         | 3             |
| <b>Lab/Practical</b>         |                            |                                |           |               |                                              |      |                        |          |           |                                       |    |       |                           |             |               |
| 6                            | BS                         | Minor Stream                   | ASH       | PH101P        | Semiconductor Physics and Devices Lab        | P    | 0                      | 0        | 2         | -                                     | 25 | 25    | 25                        | 50          | 1             |
| 7                            | ES                         | Minor Stream                   | CSE(AIML) | AI102P        | Python for Engineers                         | P    | 0                      | 0        | 4         | -                                     | 50 | 50    | 50                        | 100         | 2             |
| 8                            | HS                         | Value Added Courses for all UG | ASH       | HS1XXP/HS101P | Foreign Language / Communication Skills      | P    | 0                      | 0        | 4         | 40                                    | 10 | 50    | 50                        | 100         | 2             |
| 9                            | PW                         | Value Added Courses for all UG | CSIT      | IT104P        | Innovation and Entrepreneurship              | P    | 0                      | 0        | 2         | -                                     | 50 | 50    | -                         | 50          | 1             |
| <b>Total Hours : 32 hrs.</b> |                            |                                |           |               |                                              |      | <b>13</b>              | <b>1</b> | <b>18</b> |                                       |    |       |                           | <b>1150</b> | <b>23</b>     |

\*Self Growth will be offered to the students as hobby classes of 2 hours.