




**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA**  
Kakinada-533003, Andhra Pradesh (India)

**Program wise Curriculum Analysis of (R16)**

| Program Code | Program Name      | No of Courses having focus on |                  |                   | Total Courses | Percentage |
|--------------|-------------------|-------------------------------|------------------|-------------------|---------------|------------|
|              |                   | Employability                 | Entrepreneurship | Skill development |               |            |
| 97           | M.Tech – Avionics | 6                             | 0                | 4                 | 18            | 55.55%     |
|              |                   |                               |                  |                   |               |            |
|              |                   |                               |                  |                   |               |            |
|              |                   |                               |                  |                   |               |            |

  
Coordinator

  
HOD  
Head of the Department  
- School of AVIONICS  
Institute of Science and Technology  
Jawaharlal Nehru Technological University Kakinada  
KAKINADA-533003 (A.P.) India

  
REGISTRAR  
J.N.T. University Kakinada  
Kakinada-533003



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**Course wise Curriculum Analysis (R16)**

Program Code: 97

Program Name: M.Tech -Avionics

Year: 1

Semester: 1

| Course code | Course name  | Employability (Yes/No) | Entrepreneurship (Yes/No) | Skill development (Yes/No) |
|-------------|--|------------------------|---------------------------|----------------------------|
| Core-1      | Flight Mechanics   | yes                    |                           |                            |
| Core-2      | Digital Avionics Systems   |                        |                           |                            |
| Core - 3    | Flight Instrumentation   | Yes                    |                           |                            |
| Core - 4    | Aircraft Communication Systems   |                        |                           |                            |
| Elective-1  | 1. Flight Modeling & Simulation<br>2. Object Oriented Programming<br>3. Cyber Security |                        |                           |                            |
| Elective-2  | 1.Advanced Image Processing<br>2.EMI/EMC<br>3.Computer Vision                          |                        |                           |                            |
| Lab -1      | Flight Instrumentation Lab   |                        |                           | Yes                        |
|             | <b>Total</b>   | <b>2</b>               | <b>0</b>                  | <b>1</b>                   |

  
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**Course wise Curriculum Analysis (R16)**


Program Code: 97

Program Name: M.Tech - Avionics

Year: 1

Semester: 2

| Course code  | Course name   | Employability (Yes/No) | Entrepreneurship (Yes/No) | Skill development (Yes/No) |
|--------------|---|------------------------|---------------------------|----------------------------|
| Core-5       | Aircraft Navigation Systems   | Yes                    |                           |                            |
| Core-6       | Aircraft Utility Systems  | Yes                    |                           |                            |
| Core - 7     | Flight control systems  |                        |                           |                            |
| Core - 8     | Embedded system design  | Yes                    |                           |                            |
| Elective-3   | 1. Aircraft System Engineering<br>2. Unmanned Aircraft Systems<br>3. Integrated Vehicle Health Monitoring | Yes                    |                           |                            |
| Elective-4   | 1. Aircraft Surveillance Systems<br>2. Network Centric Warfare<br>3. Multi Sensor Data Fusion             |                        |                           |                            |
| Lab-2        | Navigation, Guidance and Control Lab  |                        |                           | yes                        |
| <b>Total</b> |   | <b>4</b>               | <b>0</b>                  | <b>1</b>                   |

  
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**Course wise Curriculum Analysis (R16)**


Program Code: 97

Program Name: M.Tech - Avionics

Year: 2

Semester: 3

| Course code  | Course name         | Employability (Yes/No) | Entrepreneurship (Yes/No) | Skill development (Yes/No) |
|--------------|---------------------|------------------------|---------------------------|----------------------------|
| Seminar      | Seminar - I         |                        |                           |                            |
| Dissertation | Project Work Part-I |                        |                           | Yes                        |
| <b>Total</b> |                     | <b>0</b>               | <b>0</b>                  | <b>1</b>                   |

  
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**Course wise Curriculum Analysis (R16)**

Program Code: 97


Program Name: M.Tech - Avionics

Year: 2

Semester: 4

| Course code  | Course name                                       | Employability (Yes/No) | Entrepreneur ship (Yes/No) | Skill development (Yes/No) |
|--------------|---|------------------------|----------------------------|----------------------------|
| Seminar      | Seminar - II                                      |                        |                            |                            |
| Dissertation | Project Work Part-II(Continued from III semester) |                        |                            | Yes                        |
|              | <b>TOTAL</b>                                      | <b>0</b>               | <b>0</b>                   | <b>1</b>                   |

  
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