

Gautam Buddha University
School of Engineering
Department of Electrical Engineering

**Course structure of M. Tech. (Instrumentation and Control) Continuing
Education/Evening Programme (3Yr.)**

| M.Tech. I Semester (Instrumentation and Control) | | | | |
|---|---------------------|---------------------------------------|--------------|---------------|
| S. No. | Subject Code | Course | L-T-P | Credit |
| THEORY | | | | |
| 1 | MA- | Optimization Techniques | 3-1-0 | 4 |
| 2 | EE- | Advance Instrumentation | 3-0-0 | 3 |
| 3 | | Robust and Adaptive Control | 3-0-0 | 3 |
| PRACTICAL | | | | |
| 4 | EE- | Advance Instrumentation & Control Lab | 0-0-3 | 2 |
| 5 | EE- | Seminar-I | 0-0-3 | 2 |
| 6 | GP | General Proficiency | ---- | 0 |
| | | TOTAL | 17 hr | 14 |

| M.Tech. II Semester (Instrumentation and Control) | | | | |
|--|---------------------|----------------------------------|--------------|---------------|
| S.N | Subject Code | Course | L-T-P | Credit |
| THEORY | | | | |
| 1 | MA- | Modelling and Simulation | 3-1-0 | 4 |
| 2 | EE- | Digital Instrumentation | 3-0-0 | 3 |
| 3 | EE- | Digital and Non-Linear Control | 3-0-0 | 3 |
| PRACTICAL | | | | |
| 4 | EE- | Digital & Non-Linear Control Lab | 0-0-3 | 2 |
| 5 | EE- | Simulation Lab | 0-0-3 | 2 |
| 6 | GP | General Proficiency | ---- | 0 |
| | | TOTAL | 17 hr | 14 |

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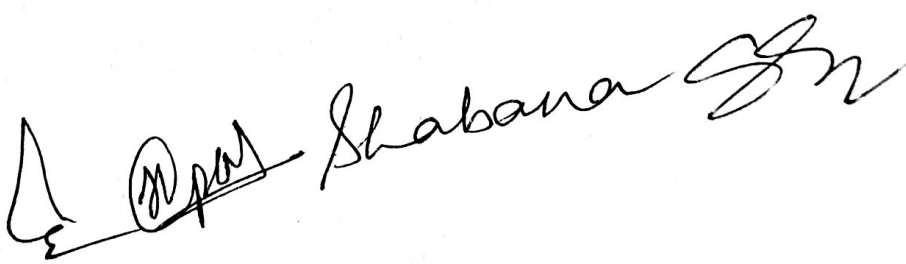
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| M.Tech. III Semester (Instrumentation and Control) | | | | |
|---|--------------|---|-------|--------|
| S.N | Subject Code | Course | L-T-P | Credit |
| THEORY | | | | |
| 1 | EE- | Advance Transducers & Sensors | 3-0-0 | 3 |
| 2 | EE- | Bio-Medical Instrumentation | 3-0-0 | 3 |
| 3 | EE- | Advance Process Control | 3-0-0 | 3 |
| PRACTICAL | | | | |
| 4 | EE- | Bio-Medical & Virtual Instrumentation Lab | 0-0-3 | 3 |
| 5 | EE- | Seminar-II | 0-0-3 | 2 |
| 6 | GP | General Proficiency | ---- | 0 |
| | | TOTAL | 17 hr | 14 |


| M.Tech. IV Semester (Instrumentation and Control) | | | | |
|--|--------------|---------------------------------------|-------|--------|
| S.N | Subject Code | Course | L-T-P | Credit |
| THEORY | | | | |
| 1 | EE- | Digital Image Processing | 3-0-0 | 3 |
| 2 | EE- | Introduction to Robotics and AI | 3-0-0 | 3 |
| 3 | | Application of IoT in Instrumentation | 3-0-0 | 3 |
| PRACTICAL | | | | |
| 4 | EE- | Project-I | --- | 5 |
| 6 | GP | General Proficiency | ---- | 0 |
| | | TOTAL | 09 hr | 14 |

| M.Tech. V Semester (Instrumentation and Control) | | | | |
|--|--------------|--|-------|--------|
| S.N | Subject Code | Course | L-T-P | Credit |
| THEORY | | | | |
| 1 | EE- | Data Acquisition & Signal Conditioning | 3-0-0 | 3 |
| 2 | EE- | Introduction to PLC and SCADA | 3-0-0 | 3 |
| 3 | | Specialized Elective | 3-0-0 | 3 |
| PRACTICAL | | | | |
| 4 | EE- | Project-II | 0-0-3 | 5 |
| 6 | GP | General Proficiency | ---- | 0 |
| | | TOTAL | 09 hr | 14 |

| M.Tech. VI Semester (Instrumentation and Control) | | | | |
|---|--------------|---------------------|-------|--------|
| S.N | Subject Code | Course | L-T-P | Credit |
| THEORY | | | | |
| 1 | EE- | Dissertation | ---- | 15 |
| 2 | | General Proficiency | ---- | 0 |
| | | TOTAL | | 15 |

NOTE: Electives of M. Tech. Regular courses will be implemented.

Vsingh   Shabana 