



# PUNYASHLOKAHILYADEVIHOLKARSO LAPURUNIVERSITY,SOLAPUR

EXAM OF 2025

## SEMESTER PATTERN EXAMINATION

DRAFT PROGRAM OF M.SC. (ELECTRONIC SCIENCE) SEM-I TO IV OCT./NOV-2025

1. Students should see their Seat No. and Name in the Name list and mistakes if any should be communicated to this office immediately. All candidates are requested to confirm their Examination Seat No. as well as place of examination on the Notice Board of the University/College mentioned below at least two days before the date of Examination. The candidates should write correct Seat No. on each answer book. If a candidate writes wrong Seat No. on answer book, the performance of such subject will not be considered.
2. Candidates are requested to be present at their respective places of the Examination **FIFTEEN MINUTES** before the times starting of the first paper and **TEN MINUTES** before the time starting of each subsequent paper. Candidates are forbidden to take any book or paper into the Examination Hall.
3. **Important Note:** Code Numbers given in the Bracket are Computer Code of respective Subjects, Students should mention these Code Numbers on Answer Books with Name of the Subject. Also write these Code Numbers on JSR (Junior Supervisor Report) and related documents.
4. All the Candidates are asked to follow the timely instructions given by University in accordance with the examination methodology.
5. As per the Right of Person with Disabilities Act-2016, the persons with Disabilities are given 20 minutes extra for one hour for the Online/Offline exam. (वेदशासनाच्या अपंगव्यक्ती अधिकार अधिनियम २०१६ मधील तरतुदीनुसार अपंग विद्यार्थ्यांना ऑनलाईन व ऑफलाईन परीक्षेमध्ये सर्वसाधारण विद्यार्थ्यांपेक्षा १ तासाला कमीत कमी २० मिनीट इतक वेळ वाढवून देण्यास सर्वांनुमते मान्यता देण्यात आली.)

ज्या विद्यार्थ्यांच्या जुन्या अभ्यासक्रमाप्रमाणे परीक्षा देण्याच्या संधी संपलेल्या आहेत व त्यांना आता नवीन अभ्यासक्रमाप्रमाणे समकक्ष पेपर (Equivalence subject) देणे आवश्यक आहे, अशा विद्यार्थ्यांनी नवीन अभ्यासक्रमा प्रमाणे द्यावायच्या समकक्ष विषयाची नावे व त्यांचे पेपर कोड यांचा तक्ता वेळापत्रकाच्या शेवटच्या पानावर प्रिंट करण्यात आला आहे. त्याप्रमाणे विद्यार्थ्यांनी सदर पेपर घ्यावेत.

| Sr.No. | Center  | College Ab<br>breviation | Place                                                      |
|--------|---------|--------------------------|------------------------------------------------------------|
| 1      | Solapur | PAHSUS                   | PUNYASHLOK AHILYADEVI HOLKAR<br>SOLAPUR UNIVERSITY, SOLAUR |

| <b>Electronics Science Sem-I (New w.e.f.June2023)</b><br><b>(NEP CBCS Pattern-2023)</b> |           |         |                                                   |
|-----------------------------------------------------------------------------------------|-----------|---------|---------------------------------------------------|
| Day&Date                                                                                | Paper No. | Sr. No. | Subject<br>Time:3:00p.m.to5:30p.m                 |
| Wednesday<br>15/05/2025                                                                 | DSC-1     | 1       | Electronic System Design(2320101)                 |
| Friday<br>17/05/2025                                                                    | DSC-2     | 2       | Microcontroller & Interfacing(2320102)            |
| Wednesday<br>19/05/2025                                                                 | DSE1-A    | 3       | Signals & Systems (2320107)<br>OR                 |
|                                                                                         | DSE1-B    | 4       | Digital Electronics & Verilog HDL (2320108)<br>OR |
|                                                                                         | DSE1-C    | 5       | Network Analysis & Synthesis(2320109)             |
| Friday<br>24/05/2025                                                                    | RM        | 6       | Research Methodology(2320103)                     |

| <b>Electronics Science Sem-II (New w.e.f.Nov2023)</b><br><b>(NEPCBCSPattern-2023)</b> |           |         |                                                            |
|---------------------------------------------------------------------------------------|-----------|---------|------------------------------------------------------------|
| Day&Date                                                                              | Paper No. | Sr. No. | Subject<br>Time:11:00a.m.to1:30p.m                         |
| Tuesday<br>14/05/2025                                                                 | HCT2.1    | 7       | Control System (2320201)                                   |
| Thursday<br>16/05/2025                                                                | HCT2.2    | 8       | Mechatronics (2320202)                                     |
| Saturday<br>20/05/2025                                                                | DSE-2     | 9       | 1. Digital Signal Processing (2320207)<br>OR               |
|                                                                                       |           | 10      | 2. Advanced Microcontrollers and protocols (2320208)<br>OR |
|                                                                                       |           | 11      | 3. Advanced Power Electronics (2320209)                    |

| <b>M.Sc.(Electronic Science)Sem–III (New w.e.f. June 2024)</b><br><b>(NEP CBCSPattern-2023)</b> |                  |                |                                                       |
|-------------------------------------------------------------------------------------------------|------------------|----------------|-------------------------------------------------------|
| <b>Day&amp;Date</b>                                                                             | <b>Paper No.</b> | <b>Sr. No.</b> | <b>Subject</b><br><b>Time: 11:00 a.m. to 1:30 p.m</b> |
| <b>Wednesday<br/>15/05/2025</b>                                                                 | DSC5             | 12             | Internet of Things (2320301)                          |
| <b>Friday<br/>17/05/2025</b>                                                                    | DSC6             | 13             | Advance Embedded System (2320302)                     |
| <b>Wednesday<br/>19/05/2025</b>                                                                 | DSE3             | 14             | A) Optical Fiber Communication (2320306)<br>OR        |
|                                                                                                 |                  | 15             | B) Microwave Devices and Applications (2320307)<br>OR |
|                                                                                                 |                  | 16             | C) Introduction to Electronics Materials (2320308)    |

| <b>M.Sc.(Electronics Science)Sem –IV (New w.e.f. Nov 2024)</b><br><b>(NEP CBCSPattern-2023)</b> |                            |                |                                                             |
|-------------------------------------------------------------------------------------------------|----------------------------|----------------|-------------------------------------------------------------|
| <b>Day&amp;Date</b>                                                                             | <b>Paper No.</b>           | <b>Sr. No.</b> | <b>Subject</b><br><b>Time: 3:00 p.m. to 5: 30 p.m</b>       |
| <b>Tuesday<br/>14/05/2025</b>                                                                   | DSC-7                      | 17             | PLC and SCADA (2320401)                                     |
| <b>Thursday<br/>16/05/2025</b>                                                                  | DSC-8                      | 18             | Integrated Circuits and VLSI (2320402)                      |
| <b>Saturday<br/>20/05/2025</b>                                                                  | DSE-4A<br>DSE-4B<br>DSE-4C | 19             | A) Python and Machine Learning (2320405)<br>OR              |
|                                                                                                 |                            | 20             | B) Biomedical Electronic Instrumentation<br>(2320406)<br>OR |
|                                                                                                 |                            | 21             | C) Modern Communication System (2320407)                    |

| <b>M.Sc.(Electronics Science) Sem –IV (New w.e.f. Nov 2021)</b><br><b>(CBCSPattern-2020) (Old up to OCT-2025)</b> |                  |                |                                                       |
|-------------------------------------------------------------------------------------------------------------------|------------------|----------------|-------------------------------------------------------|
| <b>Day&amp;Date</b>                                                                                               | <b>Paper No.</b> | <b>Sr. No.</b> | <b>Subject</b><br><b>Time: 3:00 p.m. to 6: 00 p.m</b> |
| <b>Tuesday<br/>14/05/2025</b>                                                                                     | HCT4.1           | 22             | Optical Fiber Communication (MSC02401)                |
| <b>Thursday<br/>16/05/2025</b>                                                                                    | HCT4.2           | 23             | Power Electronics (MSC02402)                          |
| <b>Saturday<br/>20/05/2025</b>                                                                                    | HCT4.3           | 24             | PLC and SCADA (MSC02403)                              |
| <b>Tuesday<br/>22/05/2025</b>                                                                                     | SCT4.1           | 25             | C) Internet of Things (IoT)(MSC02406)<br>OR           |
|                                                                                                                   | SCT4.2           | 26             | D) Foundation of Nano-electronics (MSC02407)          |

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RefNo.: PAHSUS/EXAM/TIME-TABLE/2025/1400

Date: 23/07/2025

Sd/-  
Director  
Board of Examinations and Evaluation

## Equivalence Subject List

| Pattern 2020 Paper Code | M.Sc Electronics Science Sem-I OLD      | Pattern 2023 Paper Code | M.Sc Electronics Science Sem-I NEW      |
|-------------------------|-----------------------------------------|-------------------------|-----------------------------------------|
| MSC02101                | Electronics System design               | 2320101                 | Electronic System Design                |
| MSC02102                | Network Analysis and Synthesis          | 2320109                 | Network Analysis & Synthesis            |
| MSC02103                | Signals and Systems                     | 2320107                 | Signals & Systems                       |
| MSC02108                | Microcontrollers and Interfacing        | 2320102                 | Microcontroller & Interfacing           |
| MSC02109                | Digital Electronics and Verilog HDL     | 2320108                 | Digital Electronics & Verilog HDL       |
| Pattern 2020 Paper Code | M.Sc Electronics Science Sem-II OLD     | Pattern 2023 Paper Code | M.Sc Electronics Science Sem-II NEW     |
| MSC02201                | Control Systems                         | 2320201                 | Control System                          |
| MSC02202                | Digital Signal Processing               | 2320207                 | Digital Signal Processing               |
| MSC02206                | Advanced Microcontrollers and Protocols | 2320208                 | Advanced Microcontrollers and protocols |
| MSC02207                | VLSI Design                             |                         |                                         |

| Pattern 2020 Paper Code | M.Sc Electronics Science Sem-III OLD  | Pattern 2023 Paper Code | M.Sc Electronics Science Sem-III NEW  |
|-------------------------|---------------------------------------|-------------------------|---------------------------------------|
| MSC02301                | Process Control                       |                         | No Equivalent                         |
| MSC02302                | Microwave Devices and Applications    | 2320307                 | Microwave Devices and Applications    |
| MSC02306                | Embedded System Design                | 2320302                 | Advance Embedded System               |
| MSC02307                | Introduction to Electronics Materials | 2320308                 | Introduction to Electronics Materials |
| Pattern 2020 Paper Code | M.Sc Electronics Science Sem-IV OLD   | Pattern 2023 Paper Code | M.Sc Electronics Science Sem-IV NEW   |
| MSC02401                | Optical Fiber Communication           | 2320306                 | Optical Fiber Communication           |
| MSC02402                | Power Electronics                     |                         | No Equivalent                         |
| MSC02403                | PLC and SCADA                         | 2320401                 | PLC and SCADA                         |
| MSC02406                | Internet of Things (IoT)              |                         | No Equivalent                         |
| MSC02407                | Foundation of Nano- electronics       |                         | No Equivalent                         |