| | Domain | HEC Requirements | Subjects | Courses | Credit Hours | %Area Course | %Area Cdt. | %O Courses |
|---------------|-------------------------|---------------------------|---|---------|-----------------|-----------------|---------------|---------------|
| Technical | Core Courses | Core Courses | Introduction to Computing, Basic Electrical Circuits, Information and Communications Technology, Computer Programming & Problem Solving, Digital Logic Design, Computer Aided Engineering Design, Operating Systems, Data Structure & Algorithms, Signals and Systems, Microprocessor & Microcontroller Systems, Data Communication & Networks, Linear Control System, Sensors and Transducers, Principles of Applied Mechatronics, Big Data and Cloud Computing, Emerging Trends in Connected Systems, Artificial Intelligence & Machine Learning, Cyber physical Systems, Complex Variable and Transforms | 19 | 63 | 47.50% | 43.75% | 47.50% |
| Non-Technical | Business | Management | Principles of Management, Introduction to Financial Accounting, Human Resource Management, Technology Management, Digital Financial Management, Introduction to ERP, Small Business & Entrepreneurship, Total Quality Management | 8 | 23 | 20.00% | 15.97% | - 52.50% |
| | Gen Ed. Breadth | Arts & Humanities | Foreign Language-1, Foreign Language -2 | 2 | 6 | 5.00% | 4.17% | |
| | | Social Sciences | Engineering Economics, Organizational Behavior | 2 | 6 | 5.00% | 4.17% | |
| | | Natural Sciences | Applied Physics, Renewable Energy | 2 | 7 | 5.00% | 4.86% | |
| | Foundati onal Skills | Expository Writing | Functional English, Technical Report Writing, Communication Skills | 3 | 9 | 7.50% | 6.25% | |
| | | Quantitative Reasoning | Calculus & Analytical Geometry, Linear Algebra | 2 | 6 | 5.00% | 4.17% | |
| | Civilizatio nal | Pakistan Studies | Pakistan Studies | 1 | 3 | 2.50% | 2.08% | |
| | Courses | Islamiat | Islamic Studies | 1 | 3 | 2.50% | 2.08% | |
| | | | Core | 40 | 126 | | 87.50% | |
| | | | Elect | 4 | 12 | | 8.33% | |
| | | | FYP | 2 | 6 | | 4.17% | |

SSC 100 Community Services to be offered as Non-Credited Course.

46

144

100.00%

^{*}This non-credit course will be taken by those students who have not been able to reach the desired level of competence in the English section of admission test

^{**}This non-credit course will be taken by those students who have not been able to reach the desired level of competence in the Mathematics section of admission test

⁹⁻week Internship as well as Community Service are to be offered as non-credit hour.