	CRITERION 7	Facilities and Technical Support	100 Marks

7.1. Adequate and Well-Equipped Laboratories, and Technical Manpower (40 Marks)

Table No. 7.1.1: List of laboratories and technical manpower

S.N.	Name of the Laboratory	No. of students per setup (Batch Size)	Name of major equipment	Weekly utilization status (courses)	Name of the technical staff.	Designation	Qualification
1	Lab 2 - Programming Lab	30	HP Quadcore Workstations, Python, Java, C++ IDEs	U24CS1L1, U24CS2L1, U24IT3L1, U24CS3L2, (12 hrs/ week)	Mr. Abdul Nasar	Lab Engineer	Diploma
2	Lab 2 - Database Management/ Operating systems Lab	30	i3 -PCs SQL Server, Oracle, MySQL, 20 PCs	U24CS4L1, U24CS4L2 (6 hrs/ week)	Mrs.Tamil selvi	Teaching Assistant	B.Sc.Computer science
3	Net lab - Networking & Project Lab	25	i5 – PCs Cisco Routers, Switches, Wireshark, 15 PCs	U24CS501, U24EM801 (22 hrs/ week)	Mr. Asief Jamil	Lab Admin	Diploma
4	Lab 3 - Web Technologies Lab	30	i5 PCs with VS Code, Node.js, React, MongoDB	U24IT5L1, U24IT401, (6 hrs/ week)	Ms.Sound aryagowri	Teaching Assistant	MCA
5	Bot lab – Embedded & IoT Lab	25	i5 – PCs Keil Simulators	U24CS602, U24CS301, U24EM601 (6 hrs/ week)	Mrs. Vinothini	Teaching Assistant	B.E
6	Lab 3 -AI & Machine Learning Lab	25	i5 PCs, TensorFlow, Python, Jupyter	U24IT3L2, U24DS302 (6 hrs/ week)	Mrs Deepika	Teaching Assistant	B.E

Lab -2

Lab -3

Net Lab

Bot Lab

7.2. Additional Facilities Created for Improving the Quality of Learning Experience in Laboratories (20 Marks)

Table No. 7.2.1: List of additional facilities

S.N.	Name of the Facility	Details	Purpose for creating facility	Utilization	Relevance to POs/PSOs
1	Virtual Lab Access	Web-based lab environment with 24/7 access	Enable remote and flexible learning	Used by 150 students weekly	PO1, PO2, PO4, PSO1
2	Online Code Submission Portal	Automated code evaluation and feedback system	Enhance programming practice and self-assessment	Used in all programming courses	PO3, PO5, PSO2
3	Digital Library & E-Resources	Access to IEEE, Springer, ACM digital libraries	Support research and project work	Accessed 500+ times monthly	PO8, PO9, PSO3
4	Project Display Kiosks	TV displays for showcasing student projects	Encourage innovation and peer learning	Used during project exhibitions	PO10, PSO1, PSO2

7.3. Maintenance of Laboratories and Overall Ambiance (10 Marks)

- **Regular Maintenance Schedule:** Weekly cleaning, monthly hardware check, bi-annual software updates.

- **Ambiance:** Well-lit, ventilated labs with CCTV surveillance, Wi-Fi, and power backup.

- **Green Initiatives:** Use of energy-efficient systems, paperless notices, digital logbooks.

- **Student Feedback System:** Monthly surveys to assess lab conditions and address issues promptly.

7.4. Safety Measures in Laboratories (10 Marks)

Table No. 7.4.1: List of various safety measures in laboratories

S.N.	Name of the Laboratory	Safety measures
1	Programming Lab	Fire extinguishers, CCTV, anti-static flooring, UPS backup
2	Networking Lab	Cable management, smoke detectors, first-aid kit, emergency exit signage
3	Embedded systems & IoT Lab	Biometric access, surveillance cameras, data privacy protocols
4	AI & ML Lab	Cooling systems, surge protectors, ergonomic seating
5	Database & Operating systems Lab	Regular data backup, access logs, password-protected systems

7.5. Project Laboratory/Research Laboratory /Centre of Excellence (20 Marks)

Table No. 7.5.1: List of project laboratory/research laboratory /Centre of Excellence

S.N.	Name of the Laboratory / Centre
1	Lab 3 : Center for AI & Data Science Research – i5 systems
2	Lab 3: IoT and Embedded Systems Innovation Lab – i5 systems
3	Bot lab - Cyber Security & Digital Forensics Lab – i5 systems
4	Net lab: Student Project & Innovation Hub – i5 systems
5	Maker space lab: Industry Collaboration Lab (in association with RPA-Uipath) – i7 systems