

**VASAVI COLLEGE OF ENGINEERING: HYDERABAD
DEPARTMENT OF INFORMATION TECHNOLOGY**

**Professional electives offered by the Department of Information Technology in the Academic Year
2023-24**

S No	Professional Elective No.	Name of Professional Elective	PE Code	No Credits/ Hours	Offered to
1	Professional Elective – I	Data Mining	U20PE 710IT	3	B.E.VII Semester – Information Technology
2	Professional Elective – I	Software Quality and Assurance	U20PE 720IT	3	B.E.VII Semester – Information Technology
3	Professional Elective – I	Graph Theory	U20PE 730IT	3	B.E.VII Semester – Information Technology
4	Professional Elective – I	Cryptography and Network Security	U20PE 740IT	3	B.E.VII Semester – Information Technology
5	Professional Elective – II	Data Analytics with Visualization	U20PE 750IT	3	B.E.VII Semester – Information Technology
6	Professional Elective – II	Software Testing	U20PE 760IT	3	B.E.VII Semester – Information Technology
7	Professional Elective – II	Advanced Algorithms	U20PE 770IT	3	B.E.VII Semester – Information Technology
8	Professional Elective – II	Information Security	U20PE 780IT	3	B.E.VII Semester – Information Technology
9	Professional Elective – III	Neural Networks and Deep Learning	U20PE 790IT	3	B.E.VII Semester – Information Technology
10	Professional Elective – III	Software Reuse Techniques	U20PE 712IT	3	B.E.VII Semester – Information Technology
11	Professional Elective – III	Parallel and Distributed Algorithms	U20PE 722IT	3	B.E.VII Semester – Information Technology
12	Professional Elective – III	Information Storage and Management	U20PE 733IT	3	B.E.VII Semester – Information Technology
13	Professional Elective – IV	Digital Image and Video processing	U20PE 742IT	3	B.E.VII Semester – Information Technology
14	Professional Elective – IV	Object Oriented Analysis and Design	U20PE 752IT	3	B.E.VII Semester – Information Technology
15	Professional Elective – IV	Quantum Computing	U20PE 762IT	3	B.E.VII Semester – Information Technology
16	Professional Elective – IV	Information Retrieval Systems	U20PE 772IT	3	B.E.VII Semester – Information Technology
17	Professional Elective – V	Natural Language processing	U20PE 810IT	3	B.E.VII Semester – Information Technology
18	Professional Elective – V	Software Project Management	U20PE 820IT	3	B.E.VII Semester – Information Technology
19	Professional Elective – V	Computational Number Theory	U20PE 830IT	3	B.E.VII Semester – Information Technology
20	Professional Elective – V	Block chain	U20PE 840IT	3	B.E.VII Semester – Information Technology
21	Professional Elective – VI	Computer Vision	U20PE 850IT	3	B.E.VII Semester – Information Technology
22	Professional Elective – VI	Agile Software Development	U20PE 860IT	3	B.E.VII Semester – Information Technology
23	Professional Elective – VI	Information Theory and coding	U20PE 870IT	3	B.E.VII Semester – Information Technology
24	Professional Elective – VI	Cloud Security	U20PE 880IT	3	B.E.VII Semester – Information Technology

H.O.D IT