Bachelor of AI Curriculum V9

First Level

Semester One

No	Course Name	Credit	T	P
1	Introduction to Artificial Intelligence	3	3	0
2	Computer Fundamentals	2	1	1
3	Programming Principles and Techniques	4	2	2
4	Calculus	3	3	0
5	English 1	2	2	0
6	Islamic Culture	2	2	0
	Total	**16**	**13**	**3**

Semester Two

No	Course Name	Credit	T	P
7	Principles of Database	3	2	1
8	Introduction to Web Design	3	2	1
9	OOP	3	2	1
10	Discrete Mathematics	3	3	0
11	English 2	2	2	0
12	National Culture	2	2	0
	Total	**16**	**13**	**3**

Second Level

Semester One

No	Course Name	Credit	T	P
13	Operating Systems	3	2	1
14	Data structure	3	2	1
15	Probability and Statistics	3	2	1
16	AI Programming	3	2	1
17	Linear algebra	3	3	0
18	Arabic 1	2	2	0
	Total	**17**	**14**	**3**

Semester Two

No	Course Name	Credit	T	P
19	Large Data Management	3	2	1
20	Computer Networks	3	2	1
21	Algorithm Analysis and Design	3	2	1
22	Mobile Programming	3	2	1
23	Data and Information Security	3	2	1
24	Arabic 2	2	2	0
	Total	**17**	**12**	**5**

Third Level

Semester One

No	Course Name	Credit	T	P
25	AI Algorithms	3	2	1
26	Data mining	3	2	1
27	Web Development	3	2	1
28	Elective 1	3	2	1
29	Project Management	3	2	1
30	Arab Israeli Conflict	2	2	0
	Total	**17**	**12**	**5**

Semester Two

No	Course Name	Credit	T	P
31	Advanced AIP	3	2	1
32	Machine learning	3	2	1
33	Software Engineering	3	3	0
34	Elective 2	3	2	1
35	Research Methods	3	3	0
36	Communication Skills	2	2	0
	Total	**17**	**14**	**3**

No	Summer Semester			
37	Industrial Training	0		

Fourth Level

Semester One

No	Course Name	Credit	T	P
38	Deep learning	3	2	1
39	Natural Language processing	3	2	1
40	Elective 3	3	2	1
41	Graduation Project 1	3	0	3
42	Image Processing and Pattern recognition	3	2	1
	Total	**15**	**8**	**7**

Semester Two

No	Course Name	Credit	T	P
43	Business Intelligence	3	2	1
44	Computer Vision and Robotics	3	2	1
45	Computing Ethics	3	3	0
46	Elective 4	3	2	1
47	Graduation Project 2	3	0	3
	Total	**15**	**9**	**6**

Republic of Yemen
Ministry of Higher Education & Scientific Research
AL-NASSER UNIVERSITY
FACULTY OF ENGINEERING & COMPUTER SCIENCES

الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة الناصر
كلية الهندسة وعلوم الحاسوب

Elective Courses

Domain	Subject Name	Credit
Computer vision	Virtual and Augmented reality (elective 4)	3
	GIS (elective 1)	3
	Embedded system* (elective 3)	3
AI	Bioinformatics computing (elective 4)	3
	Cognitive computing (elective 4)	3
	Selected Topics in AI (elective 3)	3
Expert Systems	Information retrieval (elective 2)	3
	Knowledge Representation and reasoning * (elective 1)	
	Stochastic Decision making * (elective 2)	3
Machine Learning	Stochastic Decision making *	3
	Knowledge Representation and reasoning*	3
	Embedded system *	3
	Advanced Mobile Programming (elective 3)	3

Aptech Certificates Mapping

No	Aptech Certificate	Certificate Awarding Time
1	Professional Diploma in AI And Machine Learning	After Completing Year 4