DEGREE OF BACHELOR OF SCIENCE IN COMPUTING SCIENCE (04G05070)

DESIGNATED DEGREE OF BACHELOR OF SCIENCE IN COMPUTING SCIENCE (04G05089)

This is the prescription for the degree taken at the **Aberdeen Institute of Data Science and Artificial Intelligence, SCNU**

Students must also comply with the University General Regulations and the Supplementary Regulations for the Degree of Bachelor of Science

All the courses listed below are prescribed for this degree

PROGRAMME YEAR 1
125 Credit Points contributing to the award of the BSc, 60 Credit Points in English Language

First Half Session			Second Half Session		
Course Code	**Course Title**	**Credit Points**	**Course Code**	**Course Title**	**Credit Points**
JC 1001	Python Programming Foundation	17.5	JC 1502	Computer Architecture	15
			JC 1503	Object-Oriented Programming	20
			20G34962	Discrete Mathematics	15
Students must register for at least 57.5 further UoA credits (11.5 SCNU credits) from among SCNU courses approved by UoA, as listed in *Note 1* below.					
Students must register for the following English Language courses:					
TSE433g0	Basic English	10	TSE433g0	Basic English	10
36EL49sa	Academic English	20	36EL49sa	Academic English	20

PROGRAMME YEAR 2
125 Credit Points contributing to the award of the BSc, 50 Credit Points in English Language

First Half-Session			Second Half-Session		
Course Code	**Course Title**	**Credit Points**	**Course Code**	**Course Title**	**Credit Points**
JC 2001	Introduction to Software Engineering	20	JC 2503	Web Application Development	15
JC 2002	Java Programming	20	JC 2504	Principles and Practices of Database Systems	20
22G31960	Probability & Statistics	15			
20H58273	Data Structures & Algorithms	17.5	JC 2505	Operating Systems Principles	17.5
Students must register for the following English Language courses:					
TSE433g0	Basic English	10	TSE433g0	Basic English	10
36EL49sa	Academic English	20	36EL49sa	Academic English	10

PROGRAMME YEAR 3 – 125 Credit Points

First Half-Session			Second Half-Session		
Course Code	**Course Title**	**Credit Points**	**Course Code**	**Course Title**	**Credit Points**
JC 3001	Artificial Intelligence Foundation	15	JC 3503	Data Mining and Visualisation	15
			JC 3504	Robot Technology	15
JC 3002	Algorithm Design and Analysis	15	JC 3505	Software Process and Management	10
			JC 3506	Software Design and Implementation	40
Students must register for at least 15 further UoA credits (3 SCNU credits) from among SCNU courses approved by UoA.					

PROGRAMME YEAR 4 – 105 Credit Points

First Half-Session			Second Half-Session		
Course Code	**Course Title**	**Credit Points**	**Course Code**	**Course Title**	**Credit Points**
JC 4001	Distributed Systems	15	JC 4500	Graduation Thesis	30
JC 4002	Network Security Technology	15			
JC 4003	Knowledge Representation	15			
JC 4004	Natural Language Processing	15			
JC 4005	Computational Intelligence	15			

<table>
<tr><th colspan="2">Notes</th></tr>
<tr><td>1.</td><td>In Programme Year 1, students must register for at least 57.5 further UoA credits (11.5 SCNU credits) from the following list of SCNU courses, approved for recognition by UoA:

<table>
<tr><th>Code</th><th>Title</th><th>Credit Points (UoA)</th></tr>
<tr><td>20G45481</td><td>Advanced Mathematics I-1</td><td>20</td></tr>
<tr><td>20G45482</td><td>Advanced Mathematics I-2</td><td>20</td></tr>
<tr><td>20H20541</td><td>Introduction to Computer Science and Technology</td><td>10</td></tr>
<tr><td>20G48240</td><td>Advanced Math Exercise Class (I)</td><td>10</td></tr>
<tr><td>20G46240</td><td>Mathematical Basic Experiment (II)</td><td>10</td></tr>
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<tr><td>2.</td><td>For the award of the Designated Degree: A minimum of 360 credit points including at least 90 credit points of Level 3 courses and the prescribed courses listed for programme years 1, 2 and 3.</td></tr>
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