

## B.Eng. (Hons) Robotics and Artificial Intelligence

### Mode of study

Full Time: 3 years.

### Level 4

Compulsory Modules Module Title	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Introduction to Robotics	4FTCXXXX	15	40	0	60	0	A
Digital Electronics	4FTCXXXX	15	40	0	60	0	A
Math for Robotics and Artificial Intelligence	4FTCXXXX	15	25	50	25	0	A
Robot Design and Build Part A	4FTCXXXX	15	0	0	100	0	A
Programming	4FTCXXXX	15	100	0	0	0	B
Professional Engineering	4FTCXXXX	15	0	0	100	0	B
Digital Computing Principles	4FTCXXXX	15	100	0	0	0	B
Robot Design and Build Part B	4FTCXXXX	15	0	0	50	50	B

### Level 5

Compulsory Modules Module Title	Module Code	Credit Points	% Test	% Examination	% Coursework	% Practical	Semesters
Embedded Systems Design	5FTCXXXX	15	0	0	100	0	A
Behavioural Robotics	5FTCXXXX	15	25	0	75	0	A
Artificial Intelligence Principles	5FTCXXXX	15	25	50	25	0	A
Applied Robotics and AI project	5FTCXXXX	15	0	0	90	10	A
Electronics Practice for Robotics Applications	5FTCXXXX	15	0	0	60	40	B
Robot Sensors and Signal Processing	5FTCXXXX	15	0	50	50	0	B
Mechatronics	5FTCXXXX	15	0	50	50	0	B
Team Project	5FTCXXXX	15	0	0	100	0	B

**Level 6**

<b>Compulsory Modules</b> Module Title	Module Code	Credit Points	%Test	% Examination	% Coursework	% Practical	Semesters
Machine Learning	6FTCXXXX	15	50	0	50	0	A
Visual and Spoken interfaces	6FTCXXXX	15	0	0	100	0	A
3D Vision	6FTCXXXX	15	100	0	0	0	A
Industrial Robotics	6FTCXXXX	15	0	50	50	0	B
Robot Communication	6FTCXXXX	15	0	50	50	0	B
Mobile Robots and Drones	6FTCXXXX	15	50	0	50	0	B
BEng Individual Major Project (Robotics & AI)	6FTCXXXX	30	0	0	80	20	AB