

COURSE LIST
SEMESTER I SESSION 2025/2026
BACHELOR OF SCIENCE (APPLIED PHYSICS) WITH HONOURS – BWC
FACULTY OF APPLIED SCIENCE AND TECHNOLOGY

FIRST YEAR

No.	Course Code	Course Name	Section	Faculty	Credit
	UQU11202	Integrity and Anti-Corruption	1, 3	Open	2
	UQI10202	Moral Studies	3	Open	2
	UQI10102	Islamic Studies	6	Open	2
	UQx1xxx1	Co-Curriculum I		Open	1
	UHB13102	English for General Communication	32	Open	2
	BWC10303	Calculus	1	FAST	3
	BWC11603	Physic Mechanics	1	FAST	2
	BWC10902	Mechanics and Wave Laboratory	1, 2	FAST	2
	BWU10401	First Year Seminar	2	FAST	1
	BWC11703	Optics and Wave	1	FAST	2
Total Credit					17

SECOND YEAR

No.	Course Code	Course Name	Section	Faculty	Credit
	UQI11202	Philosophy and Current Issues <i>*Selected 1 Student only</i>	1	Open	2
	UHB23103	English for Technical Communication	42	Open	3
	UHB13102	English for General Communication <i>*Selected 1 Student only</i>	32	Open	3
	BWC20103	Mathematical Physics	1	FAST	3
	BWC21203	Digital Electronics	1	FAST	3
	BWC20303	Thermodynamics	1	FAST	3
	BWC21003	Solid State Physics	1	FAST	3
	BWU10102	Entrepreneurship	1	FAST	2
	BWC21802	Electronics Troubleshooting and Maintenance	1	FAST	2
	BWC21703	Optic and Wave <i>*Selected 3 Students Only</i>	1	FAST	3
	BWC21603	Nuclear Physics <i>*Selected 3 Students Only</i>	1	FAST	3
Total Credit					19

THIRD YEAR

No.	Course Code	Course Name	Section	Faculty	Credit
	UHB33103	English for Professional Communication	23, 29	Open	3
	BWC32503	IOT Devices and Computers	1	FAST	3
	BWC35003	Nuclear Physics	1	FAST	3
	BWC30702	Bachelor Degree Project I	1	FAST	2
Total Credit					19

ELECTIVE PHYSICS LABORATORY V

No.	Course Code	Course Name	Section	Faculty	Credit
	BWC32802	Physics Lab V (Material)	1	FAST	2
	BWC32902	Physics Lab V (Photonics)	1	FAST	2
	BWC33002	Physics Lab V (Health Physics)	1	FAST	2

ELECTIVE I & II

No.	Course Code	Course Name	Section	Faculty	Credit
	BWC33703	Superconductor	1	FAST	3
	BWC33903	Material Testing and Evaluation	1	FAST	3
	BWC34103	Optical Sensor	1	FAST	3
	BWC34303	Optical Communication	1	FAST	3
	BWC34503	Radiation Therapy Physics	1	FAST	3
	BWC34603	Radiation Protection	1	FAST	3
	BWC33803	Material Properties and Characterization	1	FAST	3
	BWC34703	Non-destructive Testing	1	FAST	3

FINAL YEAR

No.	Course Code	Course Name	Section	Faculty	Credit
	UHB40102	English for Occupational Purposes	26, 28	Open	2
	BWC40104	Bachelor Degree Project II	1	Open	4
Total Credit					12

ELECTIVE III & IV

No.	Course Code	Course Name	Section	Faculty	Credit
	BWC40203	Superconductor	1	FAST	3
	BWC40403	Material Testing and Evaluation	1	FAST	3
	BWC41203	Optical Sensor	1	FAST	3
	BWC41403	Optical Communication	1	FAST	3
	BWC41603	Radiation Therapy Physics	1	FAST	3
	BWC41703	Radiation Protection	1	FAST	3
	BWC41803	Material Properties and Characterization	1	FAST	3
	BWC41903	Non-destructive Testing	1	FAST	3