

COURSE LIST
SEMESTER II SESSION 2024/2025
BACHELOR OF SCIENCE (APPLIED PHYSICS) WITH HONOURS – BWC
FACULTY OF APPLIED SCIENCES AND TECHNOLOGY

FIRST YEAR

No.	Course Code	Course Name	Section	Faculty	Credit
		Foreign Languages: (<i>choose 1 only</i>) <ul style="list-style-type: none"> • UHB10502- French Communication • UHB10402- Arab Communication • UHB10702- German Communication • UHB10602- Spanish Communication • UHB10802- Japanese Communication • UHB10902- Mandarin Communication 	4 7 7 2 5,10 17	Open	2
	UQ11202	Philosophy and Current Issues	4,9	Open	2
	UQU10702	Appreciation of Ethics and Civilization	2	Open	2
	UQX 1XX01	Co-Curriculum II			1
	BWC11103	Differential Equation	1	FAST	3
	BWC11302	Electronics Laboratory	1	FAST	2
	BWC11203	Analog Electronics	1	FAST	3
	BWU10202	Creativity and Innovation	3	FAST	2
	BWC11503	Modern Physics	1	FAST	3
Total Credit					19

SECOND YEAR

No.	Course Code	Course Name	Section	Faculty	Credit
	UHB23103	English Technical Communication (1 Student only)	48	Open	3
	BWC21103	Elektromagnetik	1	FAST	3
	BWC20603	Statistics	1	FAST	3
	BWC21503	Computer Programming	1	FAST	3
	BWC21903	Semiconductor Physics	1	FAST	3
	BWC22103	Quantum Physics	1	FAST	3
	BWC22203	Materials Science	1	FAST	3
	BWC21403	Introduction to Statistical Quality Control (3 Students Only)	1	FAST	3
Total Credit					19

THIRD YEAR

No.	Course Code	Course Name	Section	Faculty	Credit
	UHB30102	English for Technical Purpose (1 Students Only)	41	Open	2
	BWC32203	Quantum Physics (9 Students Only)			3
	BWC30203	Semiconductor Physics (1 Student Only)			
	BWC30702	Bachelor Degree Project I	1	FAST	2
	BWC32503	IOT Devices and Computers	1,2	FAST	3
	BWC32702	Applied Physics in Product Design	1,2	FAST	2
	BWU10302	Occupational, Safety and Health	1	FAST	2
ELEKTIF					
	BWC 30903	Nanostructured Material	1	FAST	3
	BWC 31003	Surface Physics	1	FAST	3
	BWC 33503	Glass And Ceramics Technology	1	FAST	3
	BWC 33203	Physics Of Human Body	1	FAST	3
	BWC 33603	Solar Energy And Pv Technology	1	FAST	3
	BWC 31403	Laser Technology	1	FAST	3

	BWC 31703	Radiation Biophysics	1	FAST	3
	BWC 33303	Radiation Detection And Measurement	1	FAST	3
	BWC 33403	Optical Measurement Technique	1	FAST	3
SELECTION ELECTIVE PHYSICS LABORATORY V (2 Credits)					
	BWC32802	Elective Physics Laboratory (Material)	1	FAST	2
	BWC32902	Elective Physics Laboratory (Photonics)	1	FAST	2
	BWC33002	Elective Physics Laboratory (Health Physics)	1	FAST	2
Total Credit					

FINAL YEAR

No.	Course Code	Course Name	Section	Faculty	Credit
	UHB40102	English for Occupational Purposes (<i>4 Students Only</i>)	32	Open	2
	BWC40104	Bachelor Degree Project II	1	FAST	4
	BWC41112	Industrial Training	1	FAST	12
Total Credit					
SERVICE FTK					
	BNP12603	Physics for Engineering Technology	1	FAST	3