

Faculty of Natural Sciences
Bachelor of Science Degree Programme
Five Year Plan for Level 5 Optional Courses
(OFFERED – Yes, NOT OFFERED – No)

Department of Botany

Course Code	Course Title	Academic Year				
		2020/2021	2021/2022	2022/2023	2023/2024	2024/2025
BYU5300	Environmental and Applied Microbiology	Yes	Yes	Yes	Yes	Yes
BYU5301	Plant Pathology	Yes	Yes	Yes	Yes	Yes
BYU5302	Plant Growth and Development	No	Yes	Yes	Yes	Yes
BYU5303	Plants and Man	Yes	No	Yes	Yes	Yes
BYU5304	Soils and Plant Growth	Yes	Yes	Yes	No	Yes
BYU5305	Literature Review in Botany	Yes	Yes	Yes	Yes	Yes
BYU5306	Plant Breeding	Yes	Yes	No	Yes	Yes
BYU5307	Forest Management and Its Conservation	No	Yes	Yes	Yes	Yes
BYU5308	Postharvest Technology of Fresh Produce	Yes	Yes	No	Yes	Yes
BYU5609	Horticulture	Yes	Yes	Yes	Yes	No
BYU5318	Environmental Studies	Yes	Yes	Yes	Yes	Yes

Department of Chemistry

Course Code	Course Title	Academic Year				
		2020/2021	2021/2022	2022/2023	2023/2024	2024/2025
CYU5300	Organometallic Chemistry	Yes	Yes	Yes	Yes	Yes
CYU5301	Concept in Spectroscopy	Yes	Yes	Yes	Yes	Yes
CYU5302	Analytical Chemistry	Yes	Yes	Yes	Yes	Yes
CYU5303	Organic Chemistry II	Yes	Yes	Yes	Yes	Yes
CYU5304	Chemistry of Biomolecules	Yes	Yes	Yes	Yes	Yes
CYU5306	Biochemistry	Yes	No	Yes	No	Yes
CYU5307	Chemical aspects of Food Industry	Yes	Yes	Yes	Yes	Yes
CYU5308	Instrumental Method of Chemical Analysis	Yes	Yes	Yes	Yes	Yes
CYU5309	Environmental Chemistry	No	Yes	No	Yes	No
CYU5312	Industrial Chemistry	Yes	No	Yes	No	Yes
CYU5313	Polymer Chemistry	No	Yes	No	Yes	No
CYU5310	Literature Project in Chemistry	Yes	Yes	Yes	Yes	Yes
CYU5611	Research Project in Chemistry	Yes	Yes	Yes	Yes	Yes

Department of Computer Science

Course Code	Course Title	Academic Year				
		2020/2021	2021/2022	2022/2023	2023/2024	2024/2025
CSU5300	IT Project Management	Yes	No	Yes	No	Yes
CSU5301	Software Quality Assurance	No	Yes	No	Yes	No
CSU5302	Web Technologies	Yes	Yes	Yes	Yes	Yes
CSU5303	Management Information Systems	Yes	Yes	Yes	Yes	Yes
CSU5304	Mathematics for Computing	Yes	No	Yes	No	Yes
CSU5305	Theory of Computing	No	Yes	No	Yes	No
CSU5306	Digital Electronics	Yes	No	Yes	No	Yes
CSU5307	Data Communication	Yes	Yes	Yes	Yes	Yes
CSU5308	Artificial Intelligence	Yes	Yes	Yes	Yes	Yes
CSU5309	Information Security & Cryptography	Yes	Yes	Yes	Yes	Yes
CSU5310	Computer Architecture	Yes	No	Yes	No	Yes
CSU5311	Computer Graphics	Yes	Yes	Yes	Yes	Yes
CSU5320	Project in Computer Science	Yes	Yes	Yes	Yes	Yes

Department of Mathematics

Applied Mathematics

Course Code	Course Title	Academic Year				
		2020/2021	2021/2022	2022/2023	2023/2024	2024/2025
ADU5300	Linear Programming	Yes	Yes	Yes	Yes	Yes
ADU5301	Regression Analysis I	Yes	Yes	Yes	Yes	Yes
ADU5302	Mathematical Methods	Yes	Yes	Yes	Yes	Yes
ADU5303	Newtonian Mechanics II	Yes	No	Yes	No	Yes
ADU5304	Operational Research	Yes	No	Yes	No	Yes
ADU5305	Statistical Inference	Yes	Yes	Yes	Yes	Yes
ADU5306	Fluid Mechanics	Yes	No	Yes	No	Yes
ADU5307	Numerical Methods	Yes	Yes	Yes	Yes	Yes
ADU5308	Graph Theory	Yes	Yes	Yes	Yes	Yes
ADU5615	Project in Mathematics	Yes	Yes	Yes	Yes	Yes
ADU5319	Design and Analysis of Experiments	Yes	Yes	Yes	Yes	Yes
ADU5320	Introduction to Matlab	Yes	Yes	Yes	Yes	Yes

Pure Mathematics

Course Code	Course Title	Academic Year				
		2020/2021	2021/2022	2022/2023	2023/2024	2024/2025
PEU5300	Riemann Integration	Yes	Yes	Yes	Yes	Yes
PEU5301	Ring Theory	No	Yes	No	Yes	No
PEU5302	Combinatorics	Yes	Yes	Yes	Yes	Yes
PEU5303	Number Theory	Yes	Yes	Yes	Yes	Yes
PEU5304	Introduction to Complex Analysis	Yes	Yes	Yes	Yes	Yes
PEU5305	Complex Analysis I	Yes	No	Yes	No	Yes

Department of Physics

Course Code	Course Title	Academic Year				
		2020/2021	2021/2022	2022/2023	2023/2024	2024/2025
PHU5300	Nuclear and Practical Physics	Yes	Yes	Yes	Yes	Yes
PHU5301	Practical Physics	Yes	Yes	Yes	Yes	Yes
PHU5302	Atmospheric Physics	Yes	Yes	Yes	Yes	Yes
PHU5303	Data Acquisition and Signal Processing	Yes	Yes	Yes	Yes	Yes
PHU5304	Biophysics	No	Yes	No	Yes	No
PHU5305	Essentials of Geology	Yes	Yes	Yes	Yes	Yes
PHU5306	Applied Geology	Yes	Yes	Yes	Yes	Yes
PHU5307	Medical Physics	Yes	Yes	Yes	Yes	Yes
PHU5308	Fundamentals of Geophysics	No	Yes	No	Yes	No
PHU5309	Literature Survey Project in Physics	Yes	Yes	Yes	Yes	Yes
PHU5610	Research Project in Physics	Yes	Yes	Yes	Yes	Yes
PHU5311	Astronomy	No	Yes	No	Yes	No
PHU5312	Solid State Physics	No	Yes	No	Yes	No
PHU5313	Advanced Electromagnetism	Yes	No	Yes	No	Yes
PHU5314	Thermodynamics	Yes	No	Yes	No	Yes
PHU5315	Renewable Energy Sources	Yes	No	Yes	No	Yes
PHU5318	Electronics for Biology Students	Yes	Yes	Yes	Yes	Yes

Department of Zoology

Course Code	Course Title	Academic Year				
		2020/2021	2021/2022	2022/2023	2023/2024	2024/2025
ZYU5300	Aquatic Biology	Yes	Yes	No	Yes	Yes
ZYU5301	Fish Biology & Fishery Management	Yes	No	Yes	Yes	Yes
ZYU5302	Conservation and Management of Biodiversity	No	Yes	Yes	Yes	No
ZYU5303	Environmental Toxicology	Yes	Yes	Yes	Yes	No
ZYU5304	Parasitology	Yes	No	Yes	Yes	Yes
ZYU5305	Human Biology	Yes	Yes	Yes	No	Yes
ZYU5306	Entomology	Yes	Yes	Yes	No	Yes
ZYU5307	Mammalian Biology	No	Yes	Yes	Yes	Yes
ZYU5608	Zoology Research Project (only for general)	Yes	Yes	Yes	Yes	Yes
ZYU5309	Paleobiology	Yes	Yes	No	Yes	Yes
ZYU5310	Concepts & Applications of Evolutionary Biology	Yes	Yes	Yes	Yes	Yes
ZYU5312	Avian Biology	No	Yes	Yes	Yes	Yes

11.04.2019