



UNIVERSITY OF EMBU

DEPARTMENT OF EDUCATIONAL COMMUNICATION, ADMINISTRATION & PLANNING
FIRST SEMESTER 2018/2019 ACADEMIC YEAR

Unit allocation for B.Ed. (Science) – Year 1

COMMON UNIVERSITY COURSES	
CCS101	Communication Skills
CCS103	HIV/AIDS
COMMON EDUCATION COURSE	
EPS101	Introduction to Psychology
AGRICULTURE COURSES	
ACH101	Chemistry for Agricultural Sciences
BET 103	Principles of Microeconomics
BIOLOGY COURSES	
SZL101	Invertebrate Zoology
SZL103	Fundamentals of Ecology
CHEMISTRY COURSES	
SCH101	General and Inorganic Chemistry
SCH103	General and Physical Chemistry
GEOGRAPHY COURSES	
HGE101	Introduction to Physical Geography
HGE103	Introduction to Human Geography
MATHEMATICS COURSES	
SMA101	Basic Mathematics
SMA103	Calculus I
PHYSICS COURSES	
SPH101	Mechanics I



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Unit allocation for B.Ed. (Science) – Year 2

COMMON EDUCATION COURSES	
TCT201	Instructional Technology
TPS201	Educational Measurement and Evaluation
TPS202	Psychology of Learning and Teaching
AGRICULTURE COURSES	
ACS201	Principles of Crop Production
AEB201	Power Systems and Machinery for Agriculture
BIOLOGY COURSES	
SBT203	Plant Ecology
SZL201	Cell Biology
CHEMISTRY COURSES	
SCH201	Chemistry of the Main Block Elements
SCH203	Thermodynamics I and Thermochemistry
GEOGRAPHY COURSES	
GEG201	Geography of Africa
GEG202	Natural Resources Management
MATHEMATICS COURSES	
SMA203	Linear Algebra I
SMA205	Introduction to Algebra
PHYSICS COURSES	
SPH201	Mechanics II
SPH202	Electricity and Magnetism II



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Unit allocation for B.Ed. (Science) – Year 3

COMMON EDUCATION COURSES	
BEF302	Comparative and Contemporary Issues in Education
TAP302	Educational Administration
TCT102	General Instructional Methods
TPS302	Guidance and Counselling
AGRICULTURE COURSES	
AEC301	Farm Management
ACS301	Field Crops
BIOLOGY COURSES	
SBT304	General Genetics
SZL310	Theoretical Ecology
CHEMISTRY COURSES	
SCH302	Stereochemistry and Synthesis of Organic Compounds
SCH306	Spectroscopy as applied to Organic Chemistry
GEOGRAPHY COURSES	
GEG301	Map and Image Interpretation
GEG306	Population Geography
MATHEMATICS COURSES	
SMA301	Real Analysis I
SMA303	Algebra I
PHYSICS COURSES	
SPH301	Practical Physics I
SPH304	Electrodynamics I
SPH305	Classical Mechanics





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Unit allocation for B.Ed. (Science) – Year 4

COMMON EDUCATION COURSE	
TAP401	Educational Planning
AGRICULTURE COURSES	
AEX407	Soil Fertility and Water Management
ACS410	Biotechnology
BIOLOGY COURSES	
SZL401	Environmental Biology and Conservation
SZL404	History and Philosophy of Biology
CHEMISTRY COURSES	
SCH402	Heterocyclic Chemistry
SCH405	Further Chemical Kinetics and Electrochemistry
GEOGRAPHY COURSES	
GEG402	Regional Development and Planning
GEG414	Urban Geography
MATHEMATICS COURSES	
SMA401	Topology I
SMA425	First Order Partial Differential Equations
PHYSICS COURSES	
SPH401	Atomic Physics
SPH405	Electrodynamics II