



# UNIVERSITY OF EMBU

## OFFICE OF THE CHAIRMAN (DEPARTMENT OF EDUCATION)

### SECOND SEMESTER 2020/2021 ACADEMIC YEAR UNIT ALLOCATION FOR B.ED. (ARTS) & B.ED. (SCIENCE) – Y1

Area	Unit Code	Unit Title
Common University Course	CCS102	Fundamentals of Development and its Applications
Education	EFD101	History of Education
Education	EPS102	Psychology of Human Development
Agriculture	AVP101	Animal Physiology
Agriculture	ACS104	Introduction to Plant/Crop Physiology
Biology	SZL102	Vertebrate Zoology
Biology	SBT101	Plant Diversity
Business Education	TBS102	Fundamentals of Accounting I
Business Education	TBS104	Introduction to Mathematics for Economists
Chemistry	SCH102	General and Organic Chemistry
Chemistry	SCH104	Basic Analytical Chemistry
Computer Studies	CSC 121	Programming and Problem Solving
Computer Studies	CSC 122	Database Systems
CRE	HRP102	Introduction to Logic and Critical Thinking
CRE	HRP104	Phenomenology of Religion
English	HEL103	History and Sociology of English
English	HEL104	Aspects of Modern English Grammar and Usage
Literature	HLS103	Literature and Society
Literature	HLS104	East African Prose and Poetry
Geography	HGE102	East African Environment
Geography	HGE104	Fieldwork and Research Methodology in Geography
History	HHP102	Themes in African History Since 1885
History	HHP104	The Kenyan Constitution
Kiswahili	HKS102	Introduction to Linguistics in Kiswahili
Kiswahili	HKS104	Modern Development of Kiswahili
Mathematics	SMA104	Calculus II
Mathematics	SMA140	Introduction to Probability and Statistics
Physics	SPH102	Electricity and Magnetism
Physics	SPH104	Man and the Physical World



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### SECOND SEMESTER 2020/2021 ACADEMIC YEAR UNIT ALLOCATION FOR B.ED. (ARTS) & B.ED. (SCIENCE) – Y2

Area	Unit Code	Unit Title
Education	ECT201	General Instructional Methods
Education	EFD201	Sociology of Education
Education	EPS201	Educational Measurement and Evaluation
Agriculture	ACP202	Agricultural Entomology
Agriculture	AEC202	Introduction to Agricultural Macroeconomics
Biology	SBT204	Plant Structure and Function
Biology	SZL203	Fundamentals of Aquatic Ecology
Business	BET 204	Principles of Macroeconomics
Business	BFI220	Public Finance and Fiscal Policy
Chemistry	SCH204	Introduction to Reaction Kinetics and Electrochemistry
Chemistry	SCH206	Organic acids, Amines, Esthers and Phenols
CRE	HRP202	Religion and Ethics in Society
CRE	HRP204	Religion, Technology and Environment
English	HEL203	A study of English Morphology
English	HEL204	Second Language Acquisition
Literature	HLS 203	Foreign Writers on Africa
Literature	HLS 204	East African Drama and Theatre Arts
Geography	HGE203	The Bio-Physical Environment
Geography	HGE204	Elements of Surveying and Cartography
History	HHP202	Topics in Kenyan History to the Present
History	HHP204	Studies of Peace and Conflict Resolution in the Contemporary World
Kiswahili	HKS202	Kiswahili Morphology and Morphophonology
Kiswahili	HKS204	Kiswahili Poetry
Mathematics	SMA206	Introduction to Analysis
Mathematics	SMA208	Ordinary Differential Equations I
Mathematics	STA223	Operations Research (Optional)
Physics	SPH203	Structure and Properties of Matter
Physics	SPH204	Mathematical Physics I



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### SECOND SEMESTER 2020/2021 ACADEMIC YEAR UNIT ALLOCATION FOR B.ED. (ARTS) & B.ED. (SCIENCE) – Y3

Area	Unit Code	Unit Title
Education	ECT310	Instructional Methods (Agriculture)
Education	ECT331	Instructional Methods (Biology)
Education	ECT332	Instructional Methods (Chemistry)
Education	ECT333	Instructional Methods (Physics)
Education	ECT320	Instructional Methods (English Language)
Education	ECT321	Instructional Methods (Literature)
Education	ECT322	Instructional Methods (History & Government)
Education	ECT323	Instructional Methods (Geography)
Education	ECT324	Instructional Methods (Religious Education)
Education	ECT327	Instructional Methods (Business Studies)
Education	ECT329	Instructional Methods (Kiswahili)
Education	ECT330	Instructional Methods (Mathematics)
Agriculture	ASS307	Soil Fertility and Fertilizer Use
Agriculture	ACP304	Environmental Management
Biology	SZL301	Animal Physiology (Core for all)
Biology	SZL302	Evolutionary Biology (Core for all Biology Regulars and Majors)
Biology	SBT307	Ecophysiology (Core for all Biology Majors)
Business	XET302	Intermediate Macroeconomics
Business	DAC302	Accounting and Reporting for Equities
Chemistry	SCH303	Thermodynamics II and Phase Equilibria (Core for all)
Chemistry	SCH304	Coordination Chemistry (Core for all Chemistry Regulars and Majors)
Chemistry	SCH305	Amino acids, Peptides, Proteins, Carbohydrates and Nucleic acids (Elective for Chemistry Majors)
Chemistry	SCA302	Instrumental Methods of Analysis II (Elective for Chemistry Majors)
CRE	HRP302	Research Methodology
CRE	HRP304	Principles of Leadership
English	HEL303	Traditional and Structural Analysis of English Sentences
English	HEL304	Sociolinguistics
Literature	HLS 303	Literary Stylistics
Literature	HLS 304	Children's Literature
Geography	HGE302	Statistical Techniques in Geography

Geography	HGE304	Geomorphology
History	HHP302	Aspects of Contemporary African Military History
History	HHP304	Government and Politics in East Africa
Kiswahili	HKS302	Oral Literature in Kiswahili
Kiswahili	HKS304	Sociolinguistics in Kiswahili
Mathematics	SMA306	Complex Analysis I (Core for all)
Mathematics	SMA320	Methods I (Core for all Mathematics Regulars and Majors)
Mathematics	SMA315	Analytical Applied Mathematics (Core for all Mathematics Majors)
Physics	SPH302	Thermodynamics (Core for all)
Physics	SPH303	Solid State Physics I (Core for all Physics Regulars and Majors)
Physics	SPH309	Quantum Mechanics (Core for all Physics Majors)

#### YEAR 4

Area	Unit Code	Unit Title
Education	TPS402	Introduction to Special Education
Agriculture	ASS406	Soil and Water Pollution
Agriculture	AAS414	Animal Health Management
Agriculture	ACS104	Introduction to Plant/Crop Physiology
Biology	SBT401	Plant Biochemistry
Biology	SBT402	Microbial Ecology
Business	TBS402	Public Finance and Policy
Business	TBS403	Computer Science
Chemistry	SCH401	Chemistry of Transition Elements
Chemistry	SCH404	Organometallic Chemistry
CRE	TPR402	Christian Response to Contemporary Issues
CRE	TPR408	Contemporary Philosophy
English	TEL403	Cohesion in English
English	TEL404	English Vocabulary, Semantics and Pragmatics
Literature	TLE403	Literature of the African Diaspora
Literature	TLE404	Indian Literature
Geography	GEG401	Computer Techniques in Geography
Geography	GEG403	Climatology
History	TKG401	Public Administration and Development in Africa
History	TKG402	International Organizations
Kiswahili	TKS404	Translation, Proof-reading and Editing Skills
Kiswahili	TKS411	Children's Literature in Kiswahili
Mathematics	SMA405	Algebra II
Mathematics	SMA420	Mathematical Modelling
Physics	SPH402	Nuclear Physics
Physics	SPH404	Statistical Physics