

UNIVERSITY OF RWANDA
COLLEGE OF EDUCATION
DEPARTEMENT: MATHEMATICS, SCIENCES AND PHYSICAL EDUCATION

MODULE DISTRIBUTION PER SEMESTER (DIPLOMA DTP)
YEAR 1

S/N	COMBINATION	MODULES/ SEMESTER1			MODULES/ SE		
		CORE MODULES	CREDITS	CROSS CUTTING MODULES (ALL COMBINATIONS)	Credits	CORE MODULES	Credits
1	BCE	BIO1142: Cell Biology and Genetics	15	EGP1111: English for General Purposes	BIO1243: Plant Diversity, Structure and Function	10
		CHE1141: General and Inorganic chemistry	15	ESP2112: English for Specific Purposes	BIO1344: Animal Diversity, Structure & Function	10
				EDP1141: Educational Psychology	10	CHE1243:General Organic and Polymer Chemistry	10
				CSC1141: Introduction to Information Technology	10	CHE1344: Chemical Thermodynamics and Kinetics	10
				CTE1111: Citizenship and Transformative Education		
		ENT1231: Foundation Entrepreneurship and Innovation	10				
2	MBE	BIO1142: Cell Biology and Genetics	15			BIO1243: Plant Diversity, Structure and Function	10
		MAT1141: Basic Mathematics	15	Same as above (BCE)	30	BIO1344: Animal Diversity, Structure & Function	10
		MAT1242: One Variable Real Analysis	10			MAT1343: Linear Algebra and Geometry	10
3	MCE	MAT1141: Basic Mathematics	15			MAT1343: Linear Algebra and Geometry	10
		MAT1242: One Variable Real Analysis	10	Same as above (BCE)	30	CHE1243:General Organic and Polymer Chemistry	10
		CHE1141: General and Inorganic chemistry	15			CHE1344: Chemical Thermodynamics and Kinetics	10
4	MCsE	MAT1141: Basic Mathematics	15			CSC1243: Data Structure and Programming in C++	10
		CSC1142: Computing Basics Maintenance	15	Same as above (BCE)	30	MAT1343: Linear Algebra and Geometry	10
		MAT1242: One Variable Real Analysis	10			CSC1344: Computer Architecture and Assembly Language	10
5	PCsE	PHY1141: Mechanics	15			PHY1343: Wave and Optics	10
		PHY1242:Properties of Matter and Thermodynamics	10	Same as above (BCE)	30	CSC1243: Data Structure and Programming in C++	10
		CSC1142: Computing Basics Maintenance	15			CSC1344: Computer Architecture and Assembly Language	10
6	MPE	MAT1141: Basic Mathematics	15			MAT1343: Linear Algebra and Geometry	10
		MAT1242: One Variable Real Analysis	10	Same as above (BCE)	30	PHY1343: Wave and Optics	10
		PHY1141: Mechanics	15				
		PHY1242:Properties of Matter and Thermodynamics	10				
7	PCE	PHY1141: Mechanics	15			CHE1243: General Organic and Polymer Chemistry	10
		CHE1141: General and Inorganic chemistry	15	Same as above (BCE)	30	PHY1343: Wave and Optics	10
		PHY1242:Properties of Matter and Thermodynamics	10			CHE1344:Chemical Thermodynamics and Kinetics	10
TOTAL			40 Except BCE=30, MPE=50		30 per comb.		30 Except BCE=40, MPE=20

MODULE DISTRIBUTION PER SEMESTER
YEAR 2

S/N	COMBINATION	MODULES/ SEMESTER1			MODULES/ SEMESTER2		
		CORE MODULES	Credits	CROSS CUTTING MODULES (ALL COMBINATIONS)	Credits	CROSS CUTTING MODULE (ALL COMBINATIONS)	Credits
1	BCE	BIO2143:Human Biology & Elements of Ecology	10	EDF1244: History and Comparative Education	10	EDC2241: School Attachment	20
		CHE2142:Chemical and Physical Equilibrium	10	EDP1245: Inclusive education and learner friendly school practices	10		
		BIO2144:Diseases & Public Health	10	EAP2111: English for Academic purposes	10		
		CHE2143: Fundamental of Electrochemistry and Analytical Chemistry	10	EDC2141: ICT Integration in teaching and learning	10		
		DTMBC13: Biology & Chemistry Teaching Methods	10				
2	MBE	BIO2143:Human Biology & Elements of Ecology	10				
		MAT2141:Statistics and Probability	10				
		BIO2144:Diseases & Public Health	10	Same as above (BCE)	40	EDC2241: School Attachment	20
		MAT 2143:Analytical Geometry and Multilinear Algebra	10				
		DTMMB13: Maths & Biology Teaching Methods	10				
3	MCE	MAT2141:Statistics and Probability	10				
		MAT 2143:Analytical Geometry and Multilinear Algebra	10				
		CHE2142:Chemical and Physical Equilibrium	10	Same as above (BCE)	40	EDC2241: School Attachment	20
		CHE2143: Fundamental of Electrochemistry and Analytical Chemistry	10				
		DTMMC13: Maths & Chemistry Teaching Methods	10				
4	MCsE	MAT2141:Statistics and Probability	10				
		CSC2141: electromagnetism and electronic	10				
		MAT 2143:Analytical Geometry and Multilinear Algebra	10	Same as above (BCE)	40	EDC2241: School Attachment	20
		CSC2142: computer network and security	10				

		DTMCM13: Maths & Computer Science Teaching Methods	10				
5	PCsE	PHY2142: Electromagnetism	10				
		PHY2143: Modern physics	10				
		CSC2141: electromagnetism and electronic	10				
		CSC2142: computer network and security	10	Same as above (BCE)	40	EDC2241: School Attachment	20
		DTMCP13: Physics & Computer Science Teaching Methods	10				
6	MPE	MAT2141: Statistics and Probability	10				
		PHY2142: Electromagnetism	10				
		MAT 2143: Analytical Geometry and Multilinear Algebra	10	Same as above (BCE)	40	EDC2241: School Attachment	20
		PHY2143: Modern physics	10				
		DTMMP13: Maths & Physics Teaching Methods	10				
7	PCE	PHY2142: Electromagnetism	10				
		CHE2142: Chemical and Physical Equilibrium	10				
		PHY2143: Modern physics	10	Same as above (BCE)	40	EDC2241: School Attachment	20
		CHE2143: Fundamental of Electrochemistry and Analytical Chemistry	10				
		DTMPC13: Physics & Chemistry Teaching Methods	10				
TOTAL			50 per Comb.	40 per Comb.		20 per Comb.	

TOTAL CREDITS/YEAR 2 = 110

TOTAL CREDITS (Y1 & Y2)= 260

SEMESTER 2	
CROSS CUTTING MODULES (ALL COMBINATIONS)	Credits
EGP1111: English for General Purposes	10
ESP2112: English for Specific Purposes	10
EDF1142: Academic and life skills	10
EDC1243: Theories and Practices of Learning and Teaching	10
CTE1111: Citizenship and Transformative Education	10
Same as above (BCE)	50
Same as above (BCE)	50
Same as above (BCE)	50
Same as above (BCE)	50
Same as above (BCE)	50
Same as above (BCE)	50
	50 per Comb.

TOTAL CREDIT/YEAR 1= 150