




































BACHELOR, 3rd Year - 1st Semester (S5) [JGB5ST0]

UE	Course	ECTS	Language
JGB5U1	MICROBIOLOGY - GENETICS	9	
	Microbiology		
	Microbial Genetics		
	General Microbiology Practicals		
JGB5U2	STRUCTURAL BIOCHEMISTRY AND ENZYMOLOGY	9	
	Structural Biochemistry		
	Enzymology		
	Practicals		
JGB5U3	MATHEMATICS – STATISTICS – COMPUTING - PHYSICS	9	
	Bioinformatics: Data Analysis and Programming		
	Bioinformatics: Sequence Analysis		
	Thermodynamics		
	Mathematics for Engineering		
	Statistics - Probability		
JGB5U4	GENERAL TRAINING I	3	
	English		
	Organisation and Operation of the Companies		









BACHELOR, 3rd Year - 2nd Semester (S6) [JGB6ST0]

UE	Course	ECTS	Language
JGB6U1	IMMUNOLOGY – CELL BIOLOGY - VIROLOGY	8	
	Immunology Cell Biology Virology Practicals		
JGB6U2	CHEMISTRY - PROCESS ENGINEERING	8	
	Chemistry for Engineering Process Engineering Practicals		
JGB6U3	GENERAL TRAINING II	5	
	English Corporate Finances System Security and Human Reliability Opening Module Sustainable Development		
JGB6U5	MICROBIAL PHYSIOLOGY - METABOLISM	6	
	Microbial Physiology Metabolism Practicals		
JGB6U4	WORK PLACEMENT I (Internship)	3	 / 



























MASTER, 1st Year - 1st Semester (S7) [JGB7ST0]

UE	Course	ECTS	Language
JGB7U1A	GENETICS	7	
	Prokaryotic Genetics		
	Microbial Eukaryotic Genetics		
	Genetics Practicals		
	Applied Genomics		
JGB7U2A	PROCESS ENGINEERING – BIOCHEMICAL ENGINEERING	10	
	Process Engineering		
	Biochemical Engineering		
	Protein Purification		
	Biochemical Engineering Practicals		
JGB7U4	GENERAL TRAINING III	8	
	English		
	Written and Oral Synthesis		
	Sales and Marketing Management		
	Project Management – Insertion I		
	Experimental Research Methodology		
JGB7U5	ENZYMATIC AND METABOLIC ENGINEERING	5	
	Metabolic Engineering		
	Biocatalysis		
	Industrial Enzymology		


MASTER, 1st Year - 2nd Semester (S8) [JGB8ST0]

UE	Course	ECTS	Language	
JGB8U1A	GENERAL TRAINING IV	3		
	English Scientific poster in English Human Resources Management Innovation & Entrepreneurship I			
JGB8U5A	PROCESS ENGINEERING – PROJECT	6		
	(1 report to choose)			
	Process Calculation Report (to choose) Biotechnology Report (to choose)			
	Applied Bibliography Project Applied Bioinformatics			
JGB8U2	EXPERIMENTAL MODULES AND CONFERENCES	2		
	(1 practical to choose)			
	Conferences			
	Microbiological Quality Control			
	Genomics Practical Signaling Cascade			
JGB8U4A	TRACK: THEORETICAL MODULES	9		
	(6 modules to choose)			
	Applied Genomics II Therapeutic Biomolecules Cellular Therapy Food Design & Process Novel & Functional Foods Molecular Modelling and Drug Design Biomass Conversion & Bioenergy Cellular Imaging Microbiological Expression Systems Protein Engineering Immunotechnology Cellular and Functional Neurobiology Experimental Research Methodology II Bioprocess Industrialisation			
	JGB8U3A	WORK PLACEMENT II (Internship)	10	

MASTER, 2nd Year - 1st Semester (S9) [JGB9U1B]

UE	Course	ECTS	Language
JGB9U1A	GENERAL TRAINING V & ENGINEERING SCIENCES (1 module to choose)	7	
	English		
	Corporate Law		
	Quality Management		
	Practicals & Seminars		
	Project Management – Insertion II		
	Quality Management		
	Innovation & Strategy [KEDGE] (to choose)		
	Innovation & Entrepreneurship II (to choose)		
JGB9U2A	TUTORING PROJECTS	12	
	End of Study Industrial Application Work		
	Project Management		
	Project Management Tools		
JGB9U3A	TRACK: SPECIALISED EDUCATION (2 modules to choose)	5	
	Applied Biocatalysis		
	Molecular Diagnostics		
	Cellular Therapy II		
	Biotechnology & Innovation		
	Nutrition		
	External Specialisation		
JGB9U4A	TRACK: APPLICATIONS (2 or 3 modules to choose for a total of 60h)	6	
	Enzyme production		
	Environmental Genomics		
	Eukaryotic Cell Screening		
	High-Speed Protein Production		
	Cancer Biology and Tumour Markers		
	Microalgae Culture and Valorisation		
	Molecular Interactions		
	Molecular Modelling and Drug Design		
	Nanobody Engineering		

MASTER, 2nd Year - 2nd Semester (S10) [JGB10ST0]

UE	Main course	ECTS	Language
JGB10U1	WORK PLACEMENT III (Internship)	30	 / 