Üsküdar University Faculty of Engineering and Natural Sciences Bioengineering (English) Department 2023-2024 Academic Year

							YEAR	ONE								
	1st Term						, CAIN	O.U.	2nd Term							
Code	Course Name	т	U	L	С	ECTS	Prerequisite	Code	Course Name	т	U	L		С	ECTS	Prerequisite
PHYS101	Physics I*	3	0	2	4	6		PHYS102	Physics II*	3	0	2		4	6	
MATH101	Calculus I*	3	2	0	4	6		MATH102	Calculus II*	3	2	0		4	6	
CHEM103	Fundamentals of Chemistry*	3	0	2	4	6		CHEM104	Organic Chemistry*	3	0	2		4	6	
TURK101	Turkish Language I	2	0	0	2	3		TURK102	Turkish Language II	2	0	0	4	2	3	
RPSC109	Positive Psychology and Communication Skills	3	0	0	3	5		BEN102	Introduction to Bioengineering	2	0	0	-	2	3	
RCUL101 ENG101	University Culture I* English I	3	2	0	3	3		MBG154 ENG102	General Biology* English II	2	0	0	+	3	4	
ENGIUI	English i	3	U	0	3	3		RCUI 102	University Culture II*	0				3	1	
Total Credits		17	4	4	21	30		Total Credits	Offiversity Culture II	18	2 4	6		23	32	
			TWO													
	3nd Term								4rth Term							
Code	Course Name	Т	U	L	С	ECTS	Prerequisite	Code	Course Name	Т	U	L			ECTS	Prerequisite
BEN205	Stoichiometry	3	0	0		4		BEN202	Biochemistry	3	0			3	4	
CHEM203	Physical Chemistry	3	0	0	3	4		BEN207	Bioengineering Laboratory I*	0	0	4	_	2	3	
BEN209	Cell Biology*	3	0	2	4	5		CHE206	Fluid Mechanics and Applications	3	0	0	4	3	5	
MATH203 XXXXXX	Differential Equations*	2	2	0	3	5		ATA102	Principles of Atatürk and History of Revolutions II	2	0	0	-	2	3	
	Social Elective I	3	0		3	5		BEN216 COME102	Kinetics and Reactor Design	3	0	0		3	5	
ATA101 RPRE104	Principles of Atatürk and History of Revolutions I Entrepreneurship and Project Culture	2	0	0	2	3		BEN284	Introduction to Algorithms and Programming* Summer Practice I**	2	0	0	-	3	4 5	
Total Credits	Entrepreneursnip and Project Culture	18			20			Total Credits	Summer Practice i	13					29	
							YEAR 1	HREE								
	5th Term								6th Term							
Code	Course Name	Т	U	L		ECTS	Prerequisite		Course Name	т	U			С	ECTS	Prerequisite
BEN301	Heat and Mass Transfer	3	0	0	3	5		BEN304	Bioengineering Laboratory II*	0	0	4	4	2	3	
COME211	Introduction to Programming for Engineers*	1	0	2	2	3		BEN326	Bioinformatics I	3	0	0	4	3	4	
BEN341 BEN333	Human Physiology	2	0	0	2	3		MATH204	Social Elective III	3	0	0		3	5	
BEN333 BENXXX	General Microbiology* Departmental Elective I	2	0	0	3	5		MATH204 BEN328	Statistics Genetic Engineering*	3	0	0		3	5	
	Departmental Elective I Field Elective I	3	0			5		BEN328 BENXXX	Genetic Engineering* Departmental Elective II	3	0	0		3	5	
XXXXXX	Social Elective II	3	0			5		BEN384	Summer Practice II**	0	0			0	5	
Total Credits				4	19			Total Credits	Summer ractice ii		0	6				
							YEAR	OUR								
	7thTerm								8th Term							
Code	Course Name	Т	U	L	С	ECTS	Prerequisite	Code	Course Name	Т	U	L		c	ECTS	Prerequisite
BEN489	Graduation Project*	2	2	0	3	5		BEN492	Graduation Thesis*	1	8	0		5	8	BEN489
BEN409	Process Dynamics and Control	3	0	0	3	5		BENXXX	Departmental Elective V	3	0	0	_	3	5	
MBG408	Bioethics	2	0			3		BENXXX	Departmental Elective VI	3	0			3	5	
XXXXXX	Field Elective II	3	0			5		XXXXXX	Field Elective III	3	0			3	5	
BENXXX	Departmental Elective III	3	0			5		XXXXXXX	Field Elective IV	3	0			3	5	
BENXXX OHS401	Departmental Elective IV Occupational Health and Safety I	2	0	0	2	5 2		OHS402	Occupational Health and Safety II	2	0	0	+	2	2	
Total Credits	Occupational rieatti and salety i	18	2	0	19	30		Total Credits		15	8	0	1	19	30	
Total Cicalis		10				30		Total cicalis							30	
2023-2024 Total Course Credits for Graduation 243 Total Elective Course (TS) 55 Elective Course Ratio (%) 27								"These courses are under the Applied Course status. "These courses are under the Internship Course status.								
								urco Dool								
Code	Departmental Elective Courses	т	U		К	FCTS		ourse Pool Code	Flective Foreign Languages	т	U			к	FCTS	Prerequisite
Code BEN206	Departmental Elective Courses Biomaterials	T 3	U			ECTS 5			Elective Foreign Languages Spanish I	T 3					ECTS 5	Prerequisite
BEN206 BEN213	Biomaterials Biosensors	3	0	0	3	5 5		Code ESP123 ESP124	Spanish I Spanish II	3	0	0	1	3	5 5	Prerequisite ESP123
BEN206 BEN213 BEN215	Biomaterials Biosensors Engineering Economics	3 3	0	0	3 3	5 5 5		Code ESP123 ESP124 CHIN123	Spanish I Spanish II Chinese I	3 3 3	0	0	1	3 3	5 5 5	ESP123
BEN206 BEN213 BEN215 BEN217	Biomaterials Biosensors Engineering Economics Bio-CAD Modeling*	3 3 3 2	0 0 0	0 0 0 2	3 3 3	5 5 5 5		Code ESP123 ESP124 CHIN123 CHIN124	Spanish II Spanish II Chinese I Chinese II	3 3 3	0 0 0	0		3 3 3 3	5 5 5 5	
BEN206 BEN213 BEN215 BEN217 BEN218	Biomaterials Biosensors Engineering Economics Bio-CAD Modeling* Introduction to Astrophysics	3 3 2 2	0 0 0 0	0 0 0 2	3 3 3 3	5 5 5 5 5		ESP123 ESP124 CHIN123 CHIN124 ARB123	Spanish I Spanish II Chinese I Chinese II Arabic I	3 3 3 3	0 0 0 0	0 0		3 3 3 3 3	5 5 5 5	ESP123 CHN123
BEN206 BEN213 BEN215 BEN217 BEN218 BEN221	Blomaterials Blosensors Engineering Economics Bio-CAD Modeling* Introduction to Astrophysics Biopolymers	3 3 2 3 3	0 0 0 0	0 0 0 2 0	3 3 3 3 3	5 5 5 5 5		Code ESP123 ESP124 CHIN123 CHIN124 ARB123 ARB124	Spanish I Spanish II Chinese I Chinese II Arabic I Arabic II	3 3 3 3 3	0 0 0 0	0 0 0		3 3 3 3 3 3	5 5 5 5 5	ESP123
BEN206 BEN213 BEN215 BEN217 BEN218 BEN221 BEN302	Blomaterials Blootensors Engineering Economics Bio-CAD Modeling* Introduction to Astrophysics BlopoNomers BlopoNomers Blotansport Process	3 3 2 2 3 3	0 0 0 0 0	0 0 0 2 0 0	3 3 3 3 3 3	5 5 5 5 5 5 5		Code ESP123 ESP124 CHIN123 CHIN124 ARB123 ARB124 RSN123	Spanish I Spanish II Chinese I Chinese II Arabic I Arabic II Russlan I	3 3 3 3 3 3	0 0 0 0 0	0 0 0 0 0		3 3 3 3 3 3 3	5 5 5 5 5 5	ESP123 CHN123 ARB123
BEN206 BEN213 BEN215 BEN217 BEN218 BEN221 BEN302 BEN310	Blomaterials Bloosenors Engineering Economics Bloc CAD Modeling* Introduction to Astrophysics Blooplymers Blotransport Process Blotransport Process	3 3 2 3 3	0 0 0 0 0 0	0 0 0 2 0 0 0	3 3 3 3 3 3 3	5 5 5 5 5 5 5 5		Code ESP123 ESP124 CHIN123 CHIN124 ARB123 ARB124 RSN123 RSN124	Spanish I Spanish II Chinese I Chinese II Arabic I Arabic II Russian I Russian II	3 3 3 3 3 3 3	0 0 0 0 0 0	0 0 0 0 0 0		3 3 3 3 3 3 3 3	5 5 5 5 5 5 5	ESP123 CHN123
BEN206 BEN213 BEN215 BEN217 BEN218 BEN221 BEN302	Blomaterials Bloensros Engineering Conomics Bloe-CAD Modelling* Introduction to Astrophysics Bloodymers Bloodymers Bloorascopt Process Blorascopt Process Downstream Processes Downstream Processes	3 3 2 3 3 3 3 3	0 0 0 0 0	0 0 0 2 0 0	3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5		Code ESP123 ESP124 CHIN123 CHIN124 ARB123 ARB124 RSN123 RSN124 GER123 GER124	Spanish I Spanish II Chinese I Chinese II Arabic I Arabic II Russlan I	3 3 3 3 3 3 3	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0		3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5	ESP123 CHN123 ARB123
BEN206 BEN213 BEN215 BEN217 BEN218 BEN221 BEN302 BEN310 BEN312 BEN313 BEN313	Bomaterials Boueracos Engineering Economics Boueracos Boc AD Modellur Introduction to Astroehysics Boodymers Bodzenspont Process Bodzenspont Process Bodzenspont Process Bodzenspont Bodzenspont Process Bodzenspont Process	3 3 2 3 3 3 3 3 3	0 0 0 0 0 0 0 0	0 0 2 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5		Code ESP123 ESP124 CHIN123 CHIN124 ARB123 ARB124 RSN123 RSN124 GER123 GER124 FRN123	Spanish I Spanish II Chinese I Chinese I Anabel I Anabel I Anabel I Robert I	3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0		3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5	ESP123 CHN123 ARB123 RSN123 GER123
BEN206 BEN213 BEN215 BEN217 BEN218 BEN221 BEN302 BEN310 BEN312 BEN313 BEN314 BEN314 BEN315	Blomaterials Bloorerors Engineering Economics Engineering Economics Bloc CAD Modelling* Introduction to Astrophysics Bloophymers Bloorerors Bloorerors Bloorerors Downstream Processe Bushermodynamics Introduction to Pathology Blooprocess Engineering	3 3 2 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0	0 0 2 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Code ESP123 ESP124 CHIN123 CHIN124 ARB123 ARB124 RSN123 RSN124 GER123 GER124	Spanish	3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0		3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5	ESP123 CHN123 ARB123 RSN123
BEN206 BEN213 BEN215 BEN215 BEN217 BEN218 BEN221 BEN302 BEN310 BEN312 BEN313 BEN313 BEN314 BEN315 BEN317	Bomaterials Boueraros Engineering Economics Boueraros Boc AD Modellung* Introduction to Astrophysics Boudymers Boudy	3 3 2 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0	0 0 0 2 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Code ESP123 ESP124 CHIN123 CHIN124 ARB123 ARB124 RSN123 RSN124 GER123 GER124 FRN123	Spanish I Spanish II Chinese I Chinese I Arabic I Arabic I Russian I Russian I German I French II French II	3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0		3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5	ESP123 CHN123 ARB123 RSN123 GER123
BEN206 BEN213 BEN215 BEN217 BEN217 BEN218 BEN221 BEN302 BEN310 BEN312 BEN313 BEN314 BEN314 BEN315 BEN317	Bomaterials Bouersors Engineering Economics Bace CAD Modelings* Introduction to Astrophysics Bopolymers Borbarsoper Process Borbarsoper Process Downstream Processes Untroduction to Pathology Borbermodynamics Introduction to Pathology Borprocess Engineering Introduction to Bitchenhology Medicinal Chemistry	3 3 2 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0	0 0 0 2 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Code ESP123 ESP124 CHIN123 CHIN124 ARB123 ARB124 RSN123 RSN123 RSN124 GER123 GER124 FRN123 FRN124 FRN123	Spanish I Spanish I Chinese I Chinese I Arabic I Arabic I Russian I Russian II German I German I French I French I	3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000		3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ESP123 CHN123 ARB123 RSN123 GER123 FRN123
BEN206 BEN213 BEN215 BEN215 BEN217 BEN218 BEN221 BEN302 BEN310 BEN312 BEN312 BEN313 BEN314 BEN314 BEN315 BEN317 BEN317 BEN321 BEN321	Bomaterials Bouereros Engineering Economics Bouerosos Boc AD Modellun* Introduction to Astrophysics Boodowners	3 3 2 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0	0 0 0 2 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Code ESP123 ESP124 CHIN123 CHIN124 ARB123 ARB124 RSN123 RSN123 RSN124 GER123 GER124 FRN123 FRN124 FRN123	Spanish II Spanish II Chinese II Chinese II Arabic II Arabic II Arabic II Agrabic II Agr	3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ESP123 CHN123 ARB123 RSN123 GER123 FRN123
BEN206 BEN213 BEN215 BEN215 BEN217 BEN217 BEN221 BEN302 BEN310 BEN310 BEN310 BEN311 BEN313 BEN314 BEN314 BEN314 BEN315 BEN315 BEN317 BEN321 BEN321 BEN321	Bomaterials Bouersors Engineering Economics Boue-Faul Commits Bouc-AD Modeling* Introduction to Astrophysics Bopolymers Borearsors Borearsors Downstream Process Borearsors Downstream Process Introduction to Pathology Borrocess Engineering Introduction to Bitchenhology Medicinal Chemistry Nanoneurobioscience Metabolic Engineering	3 3 2 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Code ESP123 ESP124 CHIN123 CHIN124 ARB123 ARB124 RSN123 RSN123 RSN124 GER123 GER124 FRN123 FRN124 FRN123	Spanish I Spanish I Chinese I Chinese I Arabic I Arabic I Russian I Russian II German I German I French I French I	3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ESP123 CHN123 ARB123 RSN123 GER123 FRN123
BEN206 BEN213 BEN215 BEN215 BEN217 BEN217 BEN221 BEN302 BEN310 BEN310 BEN310 BEN311 BEN313 BEN314 BEN314 BEN314 BEN315 BEN315 BEN317 BEN321 BEN321 BEN321	Bomaterials Boueracos Engineering Economics BouerAou Moelleing* Introduction to Astrophysics Boodymers Introduction to Brathology Introduction to Brathology Introduction to Biomedymolymers Introduction to Biomedymolymers Medicinal Chemistry Nanoneurobioscience Metabolic Engineering Meassurement Techniquess Sensors	3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0	0 0 0 2 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Code ESP123 ESP124 CHIN123 CHIN124 ARB123 ARB124 RSN123 RSN123 RSN124 GER123 GER124 FRN123 FRN124 FRN123	Spanish II Spanish II Chinese II Chinese II Arabic II Arabic II Arabic II Agrabic II Agr	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ESP123 CHN123 ARB123 RSN123 GER123 FRN123
BEN206 BEN213 BEN215 BEN217 BEN217 BEN218 BEN221 BEN302 BEN310 BEN312 BEN313 BEN313 BEN315 BEN315 BEN315 BEN315 BEN321 BEN324 BEN327	Bomaterials Boueraros Engineering Economics Boue-CAD Modellung* Introduction to Astrophysics Boodymers Medicinal Chemistry Nanoeuvolusoiders Medicinal Chemistry Medicinal Chemistry Medicinal Chemistry Medicinal Chemistry Medicinal Chemistry Boodymers Boody	3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		Code ESP123 ESP124 CHIN123 CHIN124 ARB123 ARB124 RSN123 RSN123 RSN124 GER123 GER124 FRN123 FRN124 FRN123	Spanish II Spanish II Chinese II Chinese II Arabic II Arabic II Russian II Russian II German I German I French II Fr	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ESP123 CHN123 ARB123 RSN123 GER123 FRN123
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BEN206 BEN213 BEN213 BEN215 BEN217 BEN217 BEN218 BEN2218 BEN221 BEN310 BEN310 BEN310 BEN311 BEN313 BEN314 BEN314 BEN314 BEN322 BEN327 BEN327 BEN327 BEN327 BEN321 BEN321 BEN321 BEN323 BEN324 BEN325 BEN327 BEN327 BEN327 BEN327 BEN329	Bomaterials Boueracos Engineering Economics BouerAD Modellung* Introduction to Astrophysics Boodymers Introduction to Pathology Boogymers Boodymers	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Prerequisite	Code ESP123 ESP124 ESP124 CHIN123 CHIN123 ARB123 ARB124 RSN123 RSN124 GER123 GER123 GER124 FRN124 For Field Elect	Spanish II Chinese II Chinese II Chinese II Arabic II Arabic II Russian II Russian II German II French II French II French II French II French II French II Spensian II Engineering and Natural Science Sodial Elective Co	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	from	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5	ESP123 CHN123 ARB123 RSN123 GER123 FRN123 tments of Faculty of
BRA026 BRA013 BER0115 BER0115 BER0117 BER0116 BER0117 BER0118 BRN021 BRN020 BRN010 BRN000 BRN010 BRN010 BRN010 BRN0110	Bomsterials Bouerstors Engineering Economics Bouerstors Engineering Economics Boc AD Modellung* Introduction to Astroehysics Bouerstors Bouerst	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Prerequisite	Code ESP123 ESP124 ESP124 CHIN123 CHIN123 ARB123 ARB124 RSN123 RSN124 GER123 GER123 GER124 FRN124 For Field Elect	Spanish II Spanish II Chinese II Chinese II Arabic II Arabic II Russian II Russian II German I German I French II Fr	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	from	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5	ESP123 CHN123 ARB123 RSN123 GER123 FRN123 tments of Faculty of
BRN206 BEN215 BEN215 BEN215 BEN215 BEN215 BEN216 BEN216 BEN216 BEN216 BEN310 BEN310 BEN310 BEN310 BEN311 BEN311 BEN313 BEN315 BEN315 BEN315 BEN315 BEN317 BEN317 BEN317 BEN317 BEN317 BEN317 BEN318 BEN317 BEN318 BEN317 BEN318 BEN317 BEN318 BEN318 BEN318 BEN317 BEN318	Bomaterials Bouerarois Engineering Economics BouerAD Modellung* Introduction to Astrophysics Boodymers Boodymers Boodymers Borractors Borractors Borractors Borractors Borractors Borractors Introduction to Patrology Borractors Introduction to Patrology Borractors Introduction to Patrology Borraces Engineering Introduction to Botherhology Nanopueroblogical Patrology Metabolic Engineering Metabolic Engineering Metabolic Engineering Metabolic Engineering Metabolic Engineering Medabolic Engineering Boological Todos Genomics History of Senece Introduction to Nanotechnology History of Senece Introduction to Nanotechnology	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Prerequisite	Code ESP123 ESP124 ESP124 CHIN123 CHIN123 ARB123 ARB124 RSN123 RSN124 GER123 GER123 GER124 FRN124 For Field Elect	Spanish II Chinese II Chinese II Chinese II Arabic II Arabic II Russian II Russian II German II French II French II French II French II French II French II Spensian II Engineering and Natural Science Sodial Elective Co	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	from	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 5 5 5 5 5 5 5 5 5 5 5	ESP123 CHN123 ARB123 RSN123 GER123 FRN123 tments of Faculty of
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