CERAMIC ENGINEERING						
Main Courses						
Course Name		edits	Prerequisite	Parallel		
	T	P				
Mechanical properties of materials (Lab)		١	Mechanical Properties of Materials(I)			
Electrical engineering (Lab)		١		Fundamentals of Electrical Engineering		
Metallugraphy (Lab)		١		Physical Properties of Materials(I)		
Statics	۲		Physics(I)			
Transport Phenomena	٣			Differential Equations		
Project		٣				
Materials Thermodynamic(I)	٣		Physical Chemistry of			
•			Materials			
Physical Properties of Materials(I)	٣		Crystallography			
Physical Properties of Materials(II)	۲		Mechanical Properties of Materials(I)			
Mechanical Properties of Materials(I)	٣		Physical Properties of Materials(I)& Strength of Materials			
Physical Chemistry of Materials	٣			General Chemistry(I) & Mathematics(II)		
Novitiate		۲				
General Workshop		١				
Crystallography	٣			General Chemistry(I)		
Fundamentals of Electrical Engineering	٣			Physics(II)		
Strength of Materials	٣			Statics		
Engineering Graphics	١					

CERAMIC ENGINEERING						
Main Courses						
Course Name	Credits		Prerequisite	Parallel		
	T	P				
Porcelains Lab		١		Porcelains		
Analysis Procedure Lab		١		Analysis of Ceramics		
Glass (Lab)		١		Glass Theory		
Production Procedure(I) Lab	۲			Production Procedure(I)		
Production Procedure(II) Lab	٣			Production Procedure(II)		
Production Procedure(III) Lab		٣		Production Procedure(III)		
Refractories Lab	٣			Refractories		
Technical Writing	٣					
Porcelains	۲		Production Process of			
			Ceramic (III)			
Glass Theory	٣		Ceramic Structure &			
			Physical Properties of			
	٣		Materials(I)			
Optical and Electric Properties of Ceramics	,		Physics(II) & Transport			
Thermal Properties of Ceramics		۲	Phenomena Physics(II) & Transport			
Thermal Properties of Ceramics		'	Phenomena & Ceramic			
			Structure			
Analysis of Ceramics		١	Physical Properties of			
•			Materials(II)			
Ceramic Structure	٣					
Materials Kinetic	٣		Thermodynamic(I) &			
			Engineering Mathematics			
Production Process of Ceramics(I)	۲					
Production Process of Ceramics(II)	۲		Production Process of			
	۲		Ceramics(I)			
Production Process of Ceramics(III)	'		Production Process of			
			Ceramics(II) & Physical Properties of Materials(II)			
			& Transport Phenomena			
Refractories	۲		Production Process of			
			Ceramics(III) & Physical			
			Properties of Materials(II)			

CERAMIC ENGINEERING Optional Courses					
Course Name	Credits		Prerequisite	Parallel	
	T	P			
Principal and Design of Industrial Furnaces	۲		Thermodynamics & Transport Phenomena		
Economics and Industrial Management	۲				
Electroceramics	٣		Optical and Electric Properties of Ceramics		
Glaze Theory	۲		Glass Theory		
Mechanical Properties of Ceramics	۲		Production Process of Ceramics(II) & Ceramic Structure & Mechanical Properties of Materials(I)		
English Language for Materials Engineering	۲		General English		
Building Ceramics	۲		Production Process of Ceramics(II) & Glaze Theory		
Engineering Ceramics	٣		Mechanical Properties of Materials(I)		
Colloidal Chemistry	۲		Production Process of Ceramics(I)		
Physical Chemistry of Cement	۲		Production Process of Ceramics(III)		
Advanced Materials	۲				
Mechanical Properties (II)	۲		Mechanical Properties of Materials(I)		

CERAMIC ENGINEERING Fundamental Courses					
Course Name	Credits		Prerequisite	Parallel	
	T	P			
General Chemistry (I) Lab		١		General Chemistry (I)	
Physics (I) Lab		١		Physics (I)	
Physics (II) Lab		١		Physics (II)	
Mathematics(I)	٣				
Mathematics(II)	٣		Mathematics(I)		
Engineering Mathematics	٣		Differential Equations		
General Chemistry	٣				
Physics (I)	٣				
Physics (II)	٣		Physics (I)		
Fundamentals of Computer Programing	٣		Differential Equations		
Numerical Computations	۲		Differential Equations		
Differential Equations	٣		Mathematics(II)		

CERAMIC ENGINEERING					
General Courses					
Course Name		dits	Prerequisite	Parallel	
	T	P			
General Engilish	٣				
General Persian Literature	٣				
Islamic Studies (I)	۲				
Islamic Studies (II)	۲		Islamic Studies (I)		
Life Style	۲				
Islamic revolution of Iran	۲				
Islamic History	۲				
Quran - Nahjolbalaghah	۲				
Physical Education (I)		١			
Physical Education (II)		١	Physical Education (I)		
History of Islamic and Iranian Culture and Civilization	۲				
Knowledge of Family and Population	۲				
Introduction to Fundamentals of the Sacred Defense	۲				
Imam Khomeini's Statement of Will	١				
Oral Presentation of Quran	١				