

## Total Workload of mathematics Program

		Credit		Contact	Hours	Self-Study	Other	Total
Course name	Course Code	ECTS	NCCCA	Lecture	Tutorial			
English Language 1	PENG 111	11 cp	8 ch	30	90	200	40	<b>360 ch</b>
Introduction to Mathematics 1	PMTH 112	3 cp	2 ch	30		80	10	<b>90 ch</b>
Computer Skills	PCOM 113	3 cp	2 ch	15	15	30	15	<b>75 ch</b>
Communication and Education Skills	PSSC 114	3 cp	2ch	15	15	30	15	<b>75 ch</b>
English Language 2	PENG 121	10 cp	6 ch	30	60	150	20	<b>260 ch</b>
Introduction to Mathematics 2	PMTH 127	7 cp	4 ch	45	15	100	10	<b>170 ch</b>
English for engineering and scientific disciplines	PENG 123	3 cp	2 ch	15	15	30	20	<b>80 ch</b>
Physics	PPHS 128	5 cp	3 ch	30	15	90	15	<b>120 ch</b>
Mathematics Basis	Math231	7 cp	4 ch	45	15	75	18	<b>153 ch</b>
Statistics and Probability (1)	STAT 201	5 cp	3 ch	30	15	78	11	<b>134 ch</b>
Calculus 1	Math 201	7 cp	4 ch	45	15	76	14	<b>150 ch</b>
Introduction to Geometry	MATH271	5 cp	3 ch	30	15	88	10	<b>143 ch</b>
Language Skills	ARAB101	3 cp	2 ch	30		30	15	<b>75 ch</b>
Islamic Culture	SALM 101	3 cp	2 ch	30		30	15	<b>75 ch</b>
Calculus 2	Math 202	7 cp	4 ch	45	15	108	14	<b>182 ch</b>
Derivation and integration in several variables	Math203	7 cp	4 ch	45	15	104	16	<b>180 ch</b>
Vectors Calculus	Math204	7 cp	4 ch	45	15	92	16	<b>168 ch</b>
linear Algebra	Math241	7 cp	4 ch	45	15	90	16	<b>166 ch</b>
University Elective	-----	3 cp	2ch	30		30	14	<b>84 ch</b>
Introduction to Ordinary Differential equations	Math 321	7 cp	4 ch	45	15	88	12	<b>160 ch</b>
Numerical Analysis	Math 351	7 cp	4 ch	45	15	108	8	<b>176 ch</b>
Linear Programming	MATH352	7 cp	4 ch	45	15	116	0	<b>176 ch</b>
Mathematical Applications in Computer	Math 353	5 cp	3 ch	30	15	15	8	<b>68 ch</b>
Islam and Society construction	SALM 102	3cp	2 ch	30		30	30	<b>90 ch</b>
Department Elective	Math ----- _	3cp	2ch	30		30	30	<b>90 ch</b>
Mathematical Methods	Math 322	7 cp	4 ch	45	15	72	18	<b>150 ch</b>
Group theory	MATH 243	7 cp	4 ch	45	15	97		<b>157 ch</b>
Statistics and Probability (2)	STAT 302	7 cp	4 ch	45	15	88	11	<b>159 ch</b>
Real Analysis (1)	Math381	5 cp	3 ch	30	15	72	27	<b>144 ch</b>

<b>Department Elective</b>	<b>Math ---</b>	<b>5 cp</b>	<b>3 ch</b>	<b>30</b>	<b>15</b>	<b>90</b>	<b>5</b>	<b>140 ch</b>
<b>Partial Differential Equations</b>	Math 423	7 cp	4 ch	45	15	77	13	<b>150 ch</b>
<b>Ring and Fields</b>	MATH 443	5 cp	3 ch	30	15	85		<b>130 ch</b>
<b>General topology</b>	Math472	5 cp	3 ch	30	15	70	20	<b>135 ch</b>
<b>Introduction to Differential Geometry</b>	MATH473	7 cp	4 ch	45	15	96	14	<b>170 ch</b>
<b>Economic system in Islam</b>	SALM 103	3 cp	2 ch	30		30	20	<b>80 ch</b>
<b>department Elective</b>	Math ---	3cp	2ch	30		45	10	<b>85 ch</b>
<b>Introduction to Functional Analysis</b>	Math484	5cp	3ch	30	15	60	15	<b>125 ch</b>
<b>Complex analysis</b>	Math 483	7 cp	4 ch	45	15	80	10	<b>150 ch</b>
<b>Department Elective</b>	Math ---	5cp	3 ch	30	15	75	15	<b>135 ch</b>
<b>University elective</b>	---	3 cp	2ch	30		40	10	<b>80 ch</b>
<b>Project</b>	Math499	7 cp	4ch					<b>180 ch</b>
<b>free Course</b>		3 cp	2 ch	30		40	20	<b>90 ch</b>
		<b>228</b>	<b>137</b>					<b>5750</b>