

First Year

(a) First Year–First Semester:

Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area						
		Lectures	Exercises	Practical	Total Hours		Year Work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary
BAS 4111	Mathematics 3	4	2		6	3	40		110	150		6					
BAS 4112	Applied Mechanics	4	2		6	3	40		110	150		4	2				
STE 4113	Civil Engineering	3	2		5	3	35		90	125			2	3			
MPE 4114	Thermodynamics 1	4	2		6	3	40	10	100	150			4	2			
MPE 4115	Mechanical Power Engine Drawing *	1	3		4		50			50		2			1	1	
MPE 4116	Humanities in MPE 2	3			3	2	15		60	75	3						
Total		19	11	0	30	14	220	10	470	700	3	12	8	5	1	1	0

(b) First Year–Second Semester:

Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area						
		Lectures	Exercises	Practical	Total Hours		Year Work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary
PRE 4121	Material Strength & Stresses Analysis	4	2		6	3	40	10	100	150			4	2			
PRE4122	Production and Material Engineering	4	2		6	3	40	10	100	150			4	2			
MPE 4123	Fluid Mechanics 1	4	2		6	3	40	10	100	150			4	2			
MPE 4124	Mechanical Power Engine Drawing *	1	3		4	3	50		100	150			2			2	
MPE 4125	Computer Applications in MPE 1	2	3		5	3	25	10	90	125					5		
MPE 4126	Technical Reports in MPE	1	2		3	3	15		60	75						2	
Total		16	14	0	30	17	210	40	550	800	0	0	14	6	5	4	0

*Continuing Course: First term result is added to the second term result.

Second Year

(c) Second Year–First Semester:

Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area						
		Lectures	Exercises	Practical	Total Hours		Year Work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary
BAS 4211	Mathematics 4	4	2		6	3	40		110	150		6					
MPE 4212	Thermodynamics 2	4	2		6	3	40	10	100	150				2	2		2
MPE 4213	Measurements & Measuring Devices	4	2		6	3	40	10	100	150			3			3	
EE 4214	Electrical Engineering	3	2		5	3	35		90	125			3	2			
PRE 4215	Theory of Machines 1	2	2		4	3	30		70	100			3	2			
MPE 4216	Humanities in MPE 3	3			3	2	15		60	75	3						
Total		20	10	0	30	17	200	20	530	750	3	6	9	6	2	3	2

(d) Second Year–Second Semester:

Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area						
		Lectures	Exercises	Practical	Total Hours		Year Work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary
BAS 4221	Numerical Methods & Statistics	4	2		6	3	40		110	150		6					
MPE 4222	Fluid Mechanics 2	4	2		6	3	40	10	100	150			3	3			
MPE 4223	Heat Transfer	4	2		6	3	40		110	150			4	2			
COM 4224	Electronic Engineering	2	2		4	3	30		70	100			2	2			
PRE 4225	Theory of Machines 2	2	2		4	3	30		70	100				3			1
MPE 4226	Computer Applications in MPE 2	2	2		4	2	30	10	60	100					4		
Total		18	12	0	30	17	210	20	520	750	0	6	9	10	4	0	1

Third Year

(e) Third Year–First Semester:

Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area						
		Lectures	Exercises	Practical	Total Hours		Year Work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary
MPE 4311	Energy Conversion	4	2		6	3	40		110	150				4			2
MPE 4312	Heat & Mass Transfer	4	2		6	3	40		110	150				2	2	2	
MPE 4313	Theory of Combustion	4	1		5	3	35		90	125				3	2		
MPE 4314	Steam Technology	3	2		5	3	25	10	90	125				2			3
MPE 4315	Elective Course 1	2	2		4	3	30	10	60	100				2		2	
MPE 4316	Computer Applications in MPE 3	2	2		4	3	30	10	60	100					4		
Total		19	11	0	30	18	200	30	520	750	0	0	0	11	8	4	5

(f) Third Year–Second Semester:

Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area						
		Lectures	Exercises	Practical	Total Hours		Year Work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary
MPE 4321	Gas Dynamics	4	2		6	3	40		110	150				3	3		
MPE 4322	Combustion Engines	4	2		6	3	40	10	100	150				4	2		
EE 4323	Power & Electrical Machines	4	2		6	3	40		110	150				4	2		
PRE 4324	Design of Machines	3	2		5	3	35		90	125					2	3	
MPE 4325	Elective Course 2	2	2		4	3	30	10	60	100				2	2		
MPE 4326	Humanities in MPE 4	3			3	2	15		60	75	3						
Total		20	10	0	30	17	200	20	530	750	3	0	13	9	2	3	0

Fourth Year

(g) Fourth Year–First Semester:

Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area						
		Lectures	Exercises	Practical	Total Hours		Year Work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary
MPE 4411	Hydraulic Machines	4	2		6	3	40	20	100	150				3		3	
PRE 4412	Operation Research	3	2		5	3	35	20	100	150	3		2				
MPE 4413	Refrigeration & Air Conditioning	4	2		6	3	40	10		50				4			2
MPE 4414	Design of Mechanical Power Engines	4	2		6	3	50	20	100	150	2			2		2	
MPE 4415	Elective Course 3	3	2		5	3	25	15	90	125	3		2				
MPE 4416	Project *	2			2		40	15	90	125							2
Total		20	10	0	30	15	170	100	480	750	8	0	4	9	0	7	2

(h) Fourth Year–Second Semester:

Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area						
		Lectures	Exercises	Practical	Total Hours		Year Work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary
MPE 4421	Turbomachines	4	2		6	3	40	10	100	150				2		4	
MPE 4422	Power Plants	4	2		6	3	40	10	100	150				4			2
MPE 4423	Automatic Control of Energy Systems	3	2		5	3	35		90	125			3				2
MPE 4424	Elective Course 4	2	2		4	3	30	10	60	100				2	2		
MPE 4425	Humanities in MPE 5	3			3	2	15		60	75	3						
MPE 4426	Project *	2	4		6		40	10	100	150	2				2	2	
Total		18	12	0	30	15	200	40	510	750	5	0	3	8	4	6	4