

Bangladesh University of Engineering and Technology  
Department of Mechanical Engineering

Statement of Courses and Grades  
for the Award of the Degree of  
Bachelor of Science in Mechanical Engineering

Name : Md. Shah Nawaz Arafin

Student No. : 1710094                      Total Credits Earned : 161.0              CGPA : 3.44

Date of Completing Degree Requirements : 27-May-2023                      Session of First Enrollment : 2018-19

Major Group : N/A                      Minor Group : N/A

Name of the Adviser : Dr. Muhammed Mahbubur Razzaque

Credits Earned and Grades Obtained in Courses Taken form Each Group of Subjects

Core Courses [Min Requirement : 54 course(s) Completed : 54 course(s) ( Theory : 29) ]							
L/T	Course No.	Course Title	CrHr	Grade	Term	Equivalent Course and Grade	
L-1/T-I	CHEM 114	Inorganic Quantitative Analysis Sessional	1.5	A+	January, 2018		✓
	EEE 159	Fundamentals of Electrical Engineering	3.0	A+	January, 2018		✓
	EEE 160	Fundamentals of Electrtrical Engineering Sessional	0.75	B+	January, 2018		✓
	MATH 161	Differential Calculus, Solid Geometry and Vectors	4.0	A	January, 2018		✓
	ME 101	Introduction to Mechanical Engineering	3.0	A	January, 2018		✓
	ME 160	Mechanical Engineering Drawing-1	1.5	A	January, 2018		✓
	PHY 105	Structure of Matter, Electricity and Magnetism and Modern Physics	3.0	B	January, 2018		✓
	SHOP 160	Foundry and Welding Shops	0.75	A+	January, 2018		✓
L-1/T-II	CHEM 141	Chemistry of Engineering Materials	3.0	B+	July, 2018		✓
	MATH 163	Integral Calculus and Differential Equations	4.0	A+	July, 2018		✓
	PHY 102	Physics Sessional	1.5	A-	July, 2018		✓
	PHY 159	Waves and Oscillation, Geometrical Optics and Waves Mechanics	3.0	A-	July, 2018		✓
	SHOP 170	Machine Shop Practice	0.75	A-	July, 2018		✓
L-2/T-I	EEE 259	Electrical and Electronics Technology	4.0	B+	January, 2019		✓
	EEE 260	Electrical and Electronics Technology Sessional	1.5	A	January, 2019		✓
	MATH 261	Vector Calculus, Matrices, Laplace Transform and Series Solution	4.0	A+	January, 2019		✓
	ME 203	Engineering Thermodynamics	4.0	---	-----		X
	ME 203	Engineering Thermodynamics	3.0	B+	January, 2019		✓
	ME 204	Engineering Themodynamics Sessional	0.75	A	January, 2019		✓
	ME 247	Engineering Mechanics-1	3.0	A-	January, 2019		✓
L-2/T-II	MATH 263	Complex Variables, Harmonic Analysis and Partial Differential Equations	4.0	S	January, 2020		✓
	ME 243	Mechanics of Solids	3.0	S	January, 2020		✓
	ME 244	Mechanics of Solids Sessional	0.75	S	January, 2020		✓
	ME 249	Engineering Mechanics-II	3.0	S	January, 2020		✓
	ME 260	Mechanical Engineering Drawing-II	1.5	S	January, 2020		✓
	ME 261	Numertical Analysis	3.0	S	January, 2020		✓
	ME 262	Numerical Analysis Sessional	0.75	S	January, 2020		✓
L-3/T-I	IPE 331	Production Processes	4.0	A-	January, 2021		✓
	IPE 332	Production Processes Sessional	0.75	A	January, 2021		✓
	ME 302	Heat Transfer Sessional	0.75	---	-----		X
	ME 305	Heat Transfer	3.0	A	January, 2021		✓
	ME 306	Heat Transfer Sessional	0.75	B-	January, 2021		✓
	ME 321	Fluid Mechanics-I	3.0	A	January, 2021		✓
	ME 349	Mechanics of Machinery	3.0	A-	January, 2021		✓
	ME 350	Mechanics of Machinery Sessional	1.5	A-	January, 2021		✓
	ME 361	Instrumentation and Measurement	3.0	B-	January, 2021		✓
	ME 366	Electro-Mechanical System Design and Practics	1.5	A+	January, 2021		✓

L-3/T-II	IPE 381	Measurement and Quality Control	3.0	A-	July, 2021		✓
	IPE 382	Measurement and Quality Control Sessional	0.75	B+	July, 2021		✓
	ME 307	Heat Transfer Equipment Design	3.0	B+	July, 2021		✓
	ME 310	Thermo Fluid System Design	1.5	A	July, 2021		✓
	ME 323	Fluid Mechanics-II	3.0	B	July, 2021		✓
	ME 326	Fluid Mechanics Sessional	0.75	A	July, 2021		✓
	ME 351	Machine Design	4.0	C	July, 2021		✓
	ME 352	Machine Design Sessional	1.5	B	July, 2021		✓
	ME 370	Industrial Training	0.0	S	July, 2022		✓
L-4/T-I	IPE 431	Machine Tools	3.0	B	January, 2022		✓
	IPE 432	Machine Tools Sessional	0.75	B+	January, 2022		✓
	ME 400	Project and Thesis	3.0	X	January, 2022		✓
	ME 417	Internal Combustion Engines	3.0	A-	January, 2022		✓
	ME 418	Heat Engines Sessional	0.75	B+	January, 2022		✓
	ME 421	Fluid Machinery	3.0	B	January, 2022		✓
	ME 422	Fluid Machinery Sessional	0.75	B	January, 2022		✓
L-4/T-II	IPE 481	Industrial Management	4.0	B-	July, 2022		✓
	ME 400	Project and Thesis	3.0	A+	July, 2022		✓
	ME 419	Power Plant Engineering	3.0	B	July, 2022		✓
	ME 420	Power Plant Engineering Sessional	0.75	A	July, 2022		✓
Core Courses [Min Requirement : 1 course(s) Completed : 1 course(s) ( Theory : 1) ]							
L/T	Course No.	Course Title	CrHr	Grade	Term	Equivalent Course and Grade	
L-1/T-II	ME 171	Computer Programming Language	3.0	B+	July, 2018		✓
Core Courses [Min Requirement : 1 course(s) Completed : 1 course(s) ( Theory : 0) ]							
L/T	Course No.	Course Title	CrHr	Grade	Term	Equivalent Course and Grade	
L-1/T-II	ME 172	Computer Programming Language Sessional	1.5	A	July, 2018		✓
Core Courses [Min Requirement : 1 course(s) Completed : 1 course(s) ( Theory : 1) ]							
L/T	Course No.	Course Title	CrHr	Grade	Term	Equivalent Course and Grade	
L-1/T-I	CHEM 109	Chemistry-1	3.0	A-	January, 2018		✓
Core Courses [Min Requirement : 1 course(s) Completed : 1 course(s) ( Theory : 1) ]							
L/T	Course No.	Course Title	CrHr	Grade	Term	Equivalent Course and Grade	
L-2/T-II	MME 291	Matallic Materials	3.0	S	January, 2020		✓
Core Courses [Min Requirement : 1 course(s) Completed : 1 course(s) ( Theory : 0) ]							
L/T	Course No.	Course Title	CrHr	Grade	Term	Equivalent Course and Grade	
L-2/T-II	MME 292	Metallic Materials Sessional	1.5	S	January, 2020		✓
Core Courses [Min Requirement : 3 course(s) Completed : 3 course(s) ( Theory : 3) ]							
L/T	Course No.	Course Title	CrHr	Grade	Term	Equivalent Course and Grade	
L-1/T-II	HUM 101	English	3.0	A-	July, 2018		✓
	HUM 103	Economics	3.0	---	-----		X
	HUM 201	Sociology	3.0	---	-----		X
	HUM 203	Government	3.0	---	-----		X
	HUM 303	Principles of Accounting	3.0	---	-----		X
	HUM 307	Industrial Sociology	3.0	---	-----		X
L-2/T-I	HUM 101	English	3.0	---	-----		X
	HUM 103	Economics	3.0	---	-----		X
	HUM 201	Sociology	3.0	---	-----		X
	HUM 203	Government	3.0	---	-----		X
	HUM 303	Principles of Accounting	3.0	A-	January, 2019		✓
	HUM 307	Industrial Sociology	3.0	---	-----		X
L-3/T-II	HUM 101	English	3.0	---	-----		X
	HUM 103	Economics	3.0	---	-----		X
	HUM 201	Sociology	3.0	A+	July, 2021		✓
	HUM 203	Government	3.0	---	-----		X
	HUM 303	Principles of Accounting	3.0	---	-----		X
	HUM 307	Industrial Sociology	3.0	---	-----		X
Optional Courses [Min Requirement : 5 course(s) Completed : 5 course(s) ( Theory : 5) ]							
L/T	Course No.	Course Title	CrHr	Grade	Term	Equivalent Course and Grade	

L-4/T-I	ME 407	Advanced Thermodynamics	3.0	---	-----		X
	ME 409	Renewable Energy	3.0	---	-----		X
	ME 411	Combustion and Pollution	3.0	---	-----		X
	ME 413	Energy and Environment	3.0	---	-----		X
	ME 415	Refrigeration and Building Mechanical System	3.0	<b>A-</b>	January, 2022		✓
	ME 423	Fluids Engineering	3.0	---	-----		X
	ME 425	Aerodynamics	3.0	---	-----		X
	ME 427	Applied Engineering Mathematics	3.0	---	-----		X
	ME 429	Similitude in Engineering Mechanics	3.0	---	-----		X
	ME 431	Gas Dynamics	3.0	---	-----		X
	ME 433	Fluidics	3.0	---	-----		X
	ME 437	Design of Fluid Mechanies	3.0	---	-----		X
	ME 439	Biomedical Fluid Mechanies	3.0	---	-----		X
	ME 441	Theory of Structures	3.0	---	-----		X
	ME 445	Noise and Vibration	3.0	<b>B+</b>	January, 2022		✓
	ME 447	Robotics	3.0	---	-----		X
	ME 449	Composite Materials	3.0	---	-----		X
	ME 461	Control Engineering	3.0	---	-----		X
	ME 463	Petroleum Engineering	3.0	---	-----		X
	ME 465	Applied Statistics	3.0	---	-----		X
	ME 467	Automobile Engineering	3.0	---	-----		X
	ME 469	Nuclear Engineering	3.0	---	-----		X
	ME 471	Bio-Engineering	3.0	---	-----		X
	ME 473	Plastics Process Technology	3.0	---	-----		X
	ME 475	Mechatronics	3.0	---	-----		X
	ME 481	Textile Technology	3.0	---	-----		X
L-4/T-II	ME 407	Advanced Thermodynamics	3.0	---	-----		X
	ME 409	Renewable Energy	3.0	---	-----		X
	ME 411	Combustion and Pollution	3.0	---	-----		X
	ME 413	Energy and Environment	3.0	<b>A+</b>	July, 2022		✓
	ME 415	Refrigeration and Building Mechanical System	3.0	---	-----		X
	ME 423	Fluids Engineering	3.0	---	-----		X
	ME 425	Aerodynamics	3.0	---	-----		X
	ME 427	Applied Engineering Mathematics	3.0	---	-----		X
	ME 429	Similitude in Engineering Mechanics	3.0	---	-----		X
	ME 431	Gas Dynamics	3.0	---	-----		X
	ME 433	Fluidics	3.0	---	-----		X
	ME 437	Design of Fluid Mechanies	3.0	---	-----		X
	ME 439	Biomedical Fluid Mechanies	3.0	---	-----		X
	ME 441	Theory of Structures	3.0	---	-----		X
	ME 445	Noise and Vibration	3.0	---	-----		X
	ME 447	Robotics	3.0	---	-----		X
	ME 449	Composite Materials	3.0	---	-----		X
	ME 461	Control Engineering	3.0	<b>B+</b>	July, 2022		✓
	ME 463	Petroleum Engineering	3.0	---	-----		X
	ME 465	Applied Statistics	3.0	---	-----		X
	ME 467	Automobile Engineering	3.0	---	-----		X
	ME 469	Nuclear Engineering	3.0	<b>B</b>	July, 2022		✓
	ME 471	Bio-Engineering	3.0	---	-----		X
	ME 473	Plastics Process Technology	3.0	---	-----		X
	ME 475	Mechatronics	3.0	---	-----		X
	ME 481	Textile Technology	3.0	---	-----		X

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Date

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Signature of the Student

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## Adviser's Checklist

(Please check all the boxes)

- ☐ Has earned a minimum of 161.0 credits **(Earned 161.0 credits)**.
- ☐ Has earned a minimum GPA of 2.20 **(Earned 3.44)**.
- ☐ Has earned credits in all compulsory courses.
- ☐ Has earned credits in all required optional courses.
- ☐ Has fulfilled all the above requirements within the stipulated maximum period of 7 academic sessions from the date of first enrollment or within the permitted time **(Completed 4 sessions)**.

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Signature of the Adviser  
Date :

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Counter Signature of Head of the Department  
Date :