



# **Programme Guide for Undergraduate Taught Programmes Engineering and Physical Sciences – Dubai Campus**

**Academic Year 202324**

**[Academic Year Calendar for 202324](#)**

*[Students are encouraged to check the Academic Calendar and be familiarise with the dates]*

# Undergraduate Taught Programme Guide – September Intake

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## Undergraduate Taught Programme Guide – September Intake

### BEng Chemical Engineering

<b>Programme Name</b>	: Beng Chemical Engineering				
<b>Programme Code</b>	: B411-CEN				
<b>Mode of Study</b>	: Full Time				
Key Contacts					
Designation	Name	Contact Email			
Programme Director	Dr Nasir Al Lagtah	<a href="mailto:n.al_lagtah@hw.ac.uk">n.al_lagtah@hw.ac.uk</a>			
Year 1 & 2 Coordinator	Dr Manjula Nair	<a href="mailto:manjula.nair@hw.ac.uk">manjula.nair@hw.ac.uk</a>			
Year 3 & 4 Coordinator	Dr Rebecca Lim	<a href="mailto:l.xiao_yien@hw.ac.uk">l.xiao_yien@hw.ac.uk</a>			
Course Code	Course Title	Mandatory/Optional	Year	Semester	Semester Dates
New Students					
Year 1					
September Semester – 4 Mandatory Courses					
B17CA	Principles of Chemistry	Mandatory	1	September	Sept 2023 To Dec 2023
B47AE	Engineering Professionalism and Technical Communication	Mandatory	1	September	
F17XA	Maths Engineers Scientists 1	Mandatory	1	September	
B47AF	Introduction to Process Engineering*	Mandatory	1	Sept & Jan	
* <b>Note:</b> B47AF is a course that is taught across two semesters and must be registered on September Semester.					
January Semester – 3 Mandatory Courses					
B17CB	Chemical Reactivity	Mandatory	1	January	Jan 2024 To Apr 2024
B57AU	Introduction to Mechanical Engineering	Mandatory	1	January	
F17XB	Maths Engineers Scientists 2	Mandatory	1	January	
Direct Entry & Continuing Students					
Year 2					
September Semester – 4 Mandatory Courses					
B18AP	Chemical Thermodynamics & Introductory Chemical Kinetics for Chemical Engineers	Mandatory	2	September	Sept 2023 To Dec 2023
B48BF	Industrial Chemical Processes	Mandatory	2	September	
B48BB	Fluid Mechanics	Mandatory	2	September	
F18XC	Mathematics for Engineers and Scientists 3	Mandatory	2	September	
January Semester– 4 Mandatory Courses					
B48BC	Thermodynamics	Mandatory	2	January	Jan 2024 To Apr 2024
B48BD	Heat Transfer	Mandatory	2	January	
B48BE	Process Design A	Mandatory	2	January	
B48BG	Mathematical Modelling	Mandatory	2	January	
Year 3					
September Semester – 4 Mandatory Courses					
B49CH	Process Control	Mandatory	3	September	Sept 2023 To Dec 2023
B49CA	Separation Processes A	Mandatory	3	September	
B49CJ	Sustainable Development and Engineering Management	Mandatory	3	September	
B49CC	Chemical Reaction Engineering	Mandatory	3	September	

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January Semester – 4 Mandatory Courses					
B49CD	Separation Processes B	Mandatory	3	January	Jan 2024 To Apr 2024
B49CE	Multiphase Thermodynamics	Mandatory	3	January	
B99BP	Bioprocessing	Mandatory	3	January	
B49CI	Process Health & Safety	Mandatory	3	January	
Year 4					
September Semester – 4 Mandatory Courses					
B40DI	Separation Processes C	Mandatory	4	September	Sept 2023 To Dec 2023
B40DJ	Sustainability Management and Process Economics	Mandatory	4	September	
B40DK	Process Integration, Optimisation and Analysis	Mandatory	4	September	
B40HE	Process Engineering Design Project *	Mandatory	4	September	
* <b>Note:</b> B40HE is a course that is taught across two semesters and must be registered on September Semester.					
January Semester – 3 Mandatory Courses					
B40DD	Reaction Engineering	Mandatory	4	January	Jan 2024 To Apr 2024
B40DL	Particle Technology	Mandatory	4	January	
B40DM	Applied Transport Phenomena	Mandatory	4	January	

## Undergraduate Taught Programme Guide – September Intake

### BEng Electrical & Electronic Engineering

<b>Programme Name</b>	: BEng Electrical & Electronic Engineering				
<b>Programme Code</b>	: B311-EEE				
<b>Mode of Study</b>	: Full Time				
Key Contacts					
Designation	Name	Contact Email			
Programme Director	Dr Senthil Muthukumaraswamy	<a href="mailto:m.senthilarumugam@hw.ac.uk">m.senthilarumugam@hw.ac.uk</a>			
Year 1 Coordinator	Dr Rula Sharqi	<a href="mailto:r.sharqi@hw.ac.uk">r.sharqi@hw.ac.uk</a>			
Year 2 Coordinator	Mr Mounif Abdallah	<a href="mailto:m.abdallah@hw.ac.uk">m.abdallah@hw.ac.uk</a>			
Year 3 Coordinator	Dr Prashanth K Soori	<a href="mailto:p.k.soori@hw.ac.uk">p.k.soori@hw.ac.uk</a>			
Year 4 Coordinator	Dr Senthil Muthukumaraswamy	<a href="mailto:m.senthilarumugam@hw.ac.uk">m.senthilarumugam@hw.ac.uk</a>			
Course Code	Course Title	Mandatory/Optional	Year	Semester	Semester Dates
New Students					
Year 1					
September Semester – 4 Mandatory Courses					
B37EE	Introduction to Electrical and Electronic Engineering	Mandatory	1	September	Sept 2023 To Dec 2023
B27MW	Mechanics, Fields and Forces	Mandatory	1	September	
B37VA	Praxis Electronic Design	Mandatory	1	September	
F17XA	Maths Engineers Scientists 1	Mandatory	1	September	
January Semester – 4 Mandatory Courses					
F17XB	Maths Engineers Scientists 2	Mandatory	1	January	Jan 2024 To Apr 2024
B37VB	Praxis Programming	Mandatory	1	January	
B57AU	Introduction to Mechanical Engineering	Mandatory	1	January	
B27FF	Waves and Matter	Mandatory	1	January	
Direct Entry & Continuing Students					
Year 2					
September Semester– 4 Mandatory Courses					
B38DB	Digital Design and Programming	Mandatory	2	September	Sept 2023 To Dec 2023
B38EB	Circuits and Analysis	Mandatory	2	September	
B49CJ	Sustainable Development and engineering management	Mandatory	2	September	
F18XC	Maths Engineers Scientists 3	Mandatory	2	September	
January Semester– 4 Mandatory Courses					
B38DF	Computer Architecture and Embedded Systems	Mandatory	2	January	Jan 2024 To Apr 2024
B38EI	Electrical Power and Machines	Mandatory	2	January	
B38EM	Intro Electricity & Magnetism	Mandatory	2	January	
F18XD	Maths Engineers & Scientists 4	Mandatory	2	January	
Year 3					
September Semester– 4 Mandatory Courses					
B39AX	Engineering mathematics and statistics	Mandatory	3	September	Sept 2023 To Dec 2023
B39ES	Electrical Energy Systems	Mandatory	3	September	
B39SA	Signals and Systems	Mandatory	3	September	
B39SE	Semiconductor Electronics	Mandatory	3	September	

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January Semester – 3 Mandatory Courses					
B39MA	Electromagnetism	Mandatory	3	January	Jan 2024 To Apr 2024
B39SB	Time Frequency and Signal Analysis	Mandatory	3	January	
B39VS	System Project	Mandatory	3	January	
Year 4					
September Semester– 1 Mandatory and 3 Optional Course(s)					
B30UB	4th Year Project 1	Mandatory	4	September	Sept 2023 To Dec 2023
B30EI	Advanced Analogue Electronics	Optional	4	September	
B30EJ	Linear Control	Optional	4	September	
B31SC	Digital Signal Processing	Optional	4	September	
January Semester– 1 Mandatory and 2 Optional Course(s)					
B30UC	4th Year Project II	Mandatory	4	January	Jan 2024 To Apr 2024
B30EK	Sustainable Energy and Power Systems	Optional	4	January	
B30ES	Industrial Power Systems	Optional	4	January	
<p><b>Note:</b> Optional courses are offered based on most students' choices. Further details will be provided at the during Week 0 and Week 1</p>					

## Undergraduate Taught Programme Guide – September Intake

### BEng Robotics, Autonomous & Interactive Systems

<b>Programme Name</b>	: BEng Robotics, Autonomous & Interactive Systems				
<b>Programme Code</b>	: B344-RAI				
<b>Mode of Study</b>	: Full Time				
Key Contacts					
Designation	Name	Contact Email			
Programme Director	Dr Senthil Muthukumaraswamy	<a href="mailto:m.senthilarumugam@hw.ac.uk">m.senthilarumugam@hw.ac.uk</a>			
Year 1 Coordinator	Dr Rula Sharqi	<a href="mailto:r.sharqi@hw.ac.uk">r.sharqi@hw.ac.uk</a>			
Year 2 Coordinator	Mr Mounif Abdallah	<a href="mailto:m.abdallah@hw.ac.uk">m.abdallah@hw.ac.uk</a>			
Year 3 Coordinator	Dr Prashanth K Soori	<a href="mailto:p.k.soori@hw.ac.uk">p.k.soori@hw.ac.uk</a>			
Year 4 Coordinator	Dr Senthil Muthukumaraswamy	<a href="mailto:m.senthilarumugam@hw.ac.uk">m.senthilarumugam@hw.ac.uk</a>			
Course Code	Course Title	Mandatory/ Optional	Year	Semester	Semester Dates
New Students					
Year 1					
September Semester– 4 Mandatory Courses					
B37EE	Introduction to Electrical and Electronic Engineering	Mandatory	1	September	Sept 2023 To Dec 2023
B37VA	Praxis Electronic Design	Mandatory	1	September	
F27SA	Software Development 1	Mandatory	1	September	
F17XA	Maths Engineers Scientists 1	Mandatory	1	September	
January Semester– 4 Mandatory Courses					
F17XB	Maths Engineers Scientists 2	Mandatory	1	January	Jan 2024 To Apr 2024
B37VB	Praxis Programming	Mandatory	1	January	
B37VR	Robotics Group Project	Mandatory	1	January	
F27SB	Software Development 2	Mandatory	1	January	
Direct Entry & Continuing Students					
Year 2					
September Semester – 4 Mandatory Courses					
B38DB	Digital Design and Programming	Mandatory	2	September	Sept 2023 To Dec 2023
B38EB	Circuits and Analysis	Mandatory	2	September	
F28SG	Introduction to Data Structures & Algorithms	Mandatory	2	September	
F18XC	Maths Engineers Scientists 3	Mandatory	2	September	
January Semester– 4 Mandatory Courses					
B38DF	Computer Architecture and Embedded Systems	Mandatory	2	January	Jan 2024 To Apr 2024
B38RO	Introduction to Robotics	Mandatory	2	January	
F28DA	Data Structures and Algorithms	Mandatory	2	January	
F18XD	Maths Engineers Scientists 4	Mandatory	2	January	
Year 3					
September Semester– 4 Mandatory Courses					
B39AX	Engineering mathematics and statistics	Mandatory	3	September	Sept 2023 To Dec 2023
B49CJ	Sustainable Development and engineering management	Mandatory	3	September	
B39SA	Signals and Systems	Mandatory	3	September	
F29AI	Artificial Intelligence and Intelligent Agents	Mandatory	3	September	

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<b>January Semester– 3 Mandatory Courses</b>					
B38EI	Electrical Power and Machines	Mandatory	3	January	Jan 2024 To Apr 2024
B39SB	Time Frequency and Signal Analysis	Mandatory	3	January	
B39VS	System Project	Mandatory	3	January	
<b>Year 4</b>					
<b>September Semester– 1 Mandatory and 3 Optional Course(s)</b>					
B30UB	4th Year Project 1	Mandatory	4	September	Sept 2023 To Dec 2023
B30EJ	Linear Control	Optional	4	September	
B31DD	Embedded Systems	Optional	4	September	
B31YS	Robotics Systems Science	Optional	4	September	
B50EO	Dynamics 1	Optional	4	September	
F20RO	Intelligent Robotics	Optional	4	September	
F20BC	Biologically Inspired Comp	Optional	4	September	
F20DL	Data Mining & Machine Learning	Optional	4	September	
<b>January Semester– 1 Mandatory and 2 Optional Course(s)</b>					
B30UC	4th Year Project II	Mandatory	4	January	Jan 2024 To Apr 2024
B50RO	Robotic Mechanical Systems	Optional	4	January	
B31SE	Image Processing	Optional	4	January	
F20AD	Advanced Human-Computer Interaction	Optional	4	January	



## Undergraduate Taught Programme Guide – September Intake

### BEng Mechanical Engineering

<b>Programme Name</b>	: BEng Mechanical Engineering				
<b>Programme Code</b>	: B511-MEG				
<b>Mode of Study</b>	: Full Time				
Key Contacts					
Designation	Name	Contact Email			
Programme Director	Dr Rehan Ahmed	<a href="mailto:R.Ahmed@hw.ac.uk">R.Ahmed@hw.ac.uk</a>			
Year 1 Coordinator	Mohamed Al-Musleh	<a href="mailto:M.Al-Musleh@hw.ac.uk">M.Al-Musleh@hw.ac.uk</a>			
Year 2 Coordinator	Olga Potapova-Crighton	<a href="mailto:O.Potapova-Crighton@hw.ac.uk">O.Potapova-Crighton@hw.ac.uk</a>			
Year 3 Coordinator	Olga Potapova-Crighton	<a href="mailto:O.Potapova-Crighton@hw.ac.uk">O.Potapova-Crighton@hw.ac.uk</a>			
Year 4 Coordinator	Dr Sibi Chacko	<a href="mailto:C.Sibi@hw.ac.uk">C.Sibi@hw.ac.uk</a>			
Course Code	Course Title	Mandatory/ Optional	Year	Semester	Semester Dates
New Students					
Year 1					
September Semester– 4 Mandatory Courses					
B37EE	Introduction to Electrical and Electronic Engineering	Mandatory	1	September	Sept 2023 To Dec 2023
B27MW	Mechanics, Fields and Forces	Mandatory	1	September	
B57AS	Mechanical Engineering in Context 1	Mandatory	1	September	
F17XA	Maths Engineers Scientists 1	Mandatory	1	September	
January Semester– 4 Mandatory Courses					
F17XB	Maths Engineers Scientists 2	Mandatory	1	January	Jan 2024 To Apr 2024
B57AT	Mechanical Engineering in Context 2	Mandatory	1	January	
B57AU	Introduction to Mechanical Engineering	Mandatory	1	January	
B27FF	Waves and Matter	Mandatory	1	January	
Direct Entry & Continuing Students					
Year 2					
September Semester – 4 Mandatory Courses					
B58DB	Design and Manufacture 2	Mandatory	2	September	Sept 2023 To Dec 2023
B58FB	Fluid Mechanics A	Mandatory	2	September	
B58SB	Strength of Materials A	Mandatory	2	September	
F18XC	Maths Engineers Scientists 3	Mandatory	2	September	
January Semester – 4 Mandatory Courses					
B58MB	Dynamics A	Mandatory	2	January	Jan 2024 To Apr 2024
B38EI	Electrical Power and Machines	Mandatory	2	January	
B58TB	Thermodynamics A	Mandatory	2	January	
F18XD	Maths Engineers Scientists 4	Mandatory	2	January	
Year 3					
September Semester – 4 Mandatory Courses					
B49CJ	Sustainable Development and Engineering Management	Mandatory	3	September	Sept 2023 To Dec 2023
B59DE	Design and manufacture 3	Mandatory	3	September	
B59FC	Fluid Mechanics B	Mandatory	3	September	
B59SC	Mechanics of Materials B	Mandatory	3	September	

## Undergraduate Taught Programme Guide – September Intake

<b>January Semester – 3 Mandatory &amp; 1 Optional Course(s)</b>					
B59MC	Vibration Analysis & Control Engineering	Mandatory	3	January	Jan 2024 To Apr 2024
B59TC	Thermodynamics B	Mandatory	3	January	
B59DF	Design and Manufacture 4	Mandatory	3	January	
B59AC	Automotive Technologies 1	Optional	3	January	
B59ES	Energy Studies	Optional	3	January	
<b>Year 4</b>					
<b>September Semester – 2 Mandatory and 2 Optional Courses</b>					
B50PA	Project 1	Mandatory	4	September	Sept 2023 To Dec 2023
B50DG	Engineering Design	Mandatory	4	September	
B50EO	Dynamics 1	Optional	4	September	
B50EM	Advanced Mechanics of Materials 1	Optional	4	September	
B50EK	Fluids 1	Optional	4	September	
B50TE	Heat Exchangers and HT	Optional	4	September	
<b>January Semester – 2 Mandatory and 2 Optional Courses</b>					
B50DH	Engineering Manufacture	Mandatory	4	January	Jan 2024 To Apr 2024
B50PB	Project 2	Mandatory	4	January	
B50EL	Fluids 2	Optional	4	January	
B50EN	Advan Mechs Materials 2	Optional	4	January	
B50EP	Dynamics 2	Optional	4	January	
B50TF	Adv Thermodynamic Applications	Optional	4	January	

## Undergraduate Taught Programme Guide – September Intake

### BEng Mechanical Engineering & Energy Engineering

<b>Programme Name</b>	: BEng Mechanical Engineering& Energy Engineering				
<b>Programme Code</b>	: B542-MEE				
<b>Mode of Study</b>	: Full Time				
Key Contacts					
Designation	Name	Contact Email			
Programme Director	Dr Rehan Ahmed	<a href="mailto:R.Ahmed@hw.ac.uk">R.Ahmed@hw.ac.uk</a>			
Year 1 Coordinator	Mohamed Al-Musleh	<a href="mailto:M.Al-Musleh@hw.ac.uk">M.Al-Musleh@hw.ac.uk</a>			
Year 2 Coordinator	Olga Potapova-Crighton	<a href="mailto:O.Potapova-Crighton@hw.ac.uk">O.Potapova-Crighton@hw.ac.uk</a>			
Year 3 Coordinator	Olga Potapova-Crighton	<a href="mailto:O.Potapova-Crighton@hw.ac.uk">O.Potapova-Crighton@hw.ac.uk</a>			
Year 4 Coordinator	Dr Sibi Chacko	<a href="mailto:C.Sibi@hw.ac.uk">C.Sibi@hw.ac.uk</a>			
Course Code	Course Title	Mandatory/ Optional	Year	Semester	Semester Dates
New Students					
Year 1					
September Semester – 4 Mandatory Courses					
B37EE	Introduction to Electrical and Electronic Engineering	Mandatory	1	September	Sept 2023 To Dec 2023
B27MW	Mechanics, Fields and Forces	Mandatory	1	September	
B57AS	Mechanical Engineering in Context 1	Mandatory	1	September	
F17XA	Maths Engineers Scientists 1	Mandatory	1	September	
January Semester – 4 Mandatory Courses					
F17XB	Maths Engineers Scientists 2	Mandatory	1	January	Jan 2024 To Apr 2024
B57AT	Mechanical Engineering in Context 2	Mandatory	1	January	
B57AU	Introduction to Mechanical Engineering	Mandatory	1	January	
B27FF	Waves and Matter	Mandatory	1	January	
Direct Entry & Continuing Students					
Year 2					
September Semester – 4 Mandatory Courses					
B58DB	Design and Manufacture 2	Mandatory	2	September	Sept 2023 To Dec 2023
B58FB	Fluid Mechanics A	Mandatory	2	September	
B58SB	Strength of Materials A	Mandatory	2	September	
F18XC	Maths Engineers Scientists 3	Mandatory	2	September	
January Semester – 4 Mandatory Courses					
B58MB	Dynamics A	Mandatory	2	January	Jan 2024 To Apr 2024
B38EI	Electrical Power and Machines	Mandatory	2	January	
B58TB	Thermodynamics A	Mandatory	2	January	
F18XD	Maths Engineers Scientists 4	Mandatory	2	January	
Year 3					
September Semester – 4 Mandatory Courses					
B49CJ	Sustainable Development and Engineering Management	Mandatory	3	September	Sept 2023 To Dec 2023
B59DE	Design and manufacture 3	Mandatory	3	September	
B59FC	Fluid Mechanics B	Mandatory	3	September	
B59SC	Mechanics of Materials B	Mandatory	3	September	

## Undergraduate Taught Programme Guide – September Intake

<b>January Semester – 4 Mandatory Courses</b>					
B59MC	Vib Analysis & Control Eng	Mandatory	3	January	Jan 2024 To Apr 2024
B59TC	Thermodynamics B	Mandatory	3	January	
B59DF	Design and Manufacture 4	Mandatory	3	January	
B59ES	Energy Studies	Mandatory	3	January	
<b>Year 4</b>					
<b>September Semester – 4 Mandatory Courses</b>					
B50PA	Project 1	Mandatory	4	September	Sept 2023 To Dec 2023
B50DG	Engineering Design	Mandatory	4	September	
B50TE	Heat Exchangers and HT	Mandatory	4	September	
G10UG	Introduction to Petroleum Engineering	Mandatory	4	September	
<b>January Semester – 3 Mandatory and 1 Optional Course(s)</b>					
B50DH	Engineering Manufacture	Mandatory	4	January	Jan 2024 To Apr 2024
B50PB	Project 2	Mandatory	4	January	
B50TF	Adv Thermodynamic Applications	Mandatory	4	January	
B50EL	Fluids 2	Optional	4	January	
B50EP	Dynamics 2	Optional	4	January	

## Undergraduate Taught Programme Guide – September Intake

### BEng Automotive Engineering

<b>Programme Name</b>	: BEng Automotive Engineering				
<b>Programme Code</b>	: B564-AUE				
<b>Mode of Study</b>	: Full Time				
Key Contacts					
Designation	Name	Contact Email			
Programme Director	Dr Rehan Ahmed	<a href="mailto:R.Ahmed@hw.ac.uk">R.Ahmed@hw.ac.uk</a>			
Year 1 Coordinator	Mohamed Al-Musleh	<a href="mailto:M.Al-Musleh@hw.ac.uk">M.Al-Musleh@hw.ac.uk</a>			
Year 2 Coordinator	Olga Potapova-Crighton	<a href="mailto:O.Potapova-Crighton@hw.ac.uk">O.Potapova-Crighton@hw.ac.uk</a>			
Year 3 Coordinator	Olga Potapova-Crighton	<a href="mailto:O.Potapova-Crighton@hw.ac.uk">O.Potapova-Crighton@hw.ac.uk</a>			
Year 4 Coordinator	Dr Sibi Chacko	<a href="mailto:C.Sibi@hw.ac.uk">C.Sibi@hw.ac.uk</a>			
Course Code	Course Title	Mandatory/ Optional	Year	Semester	Semester Dates
New Students					
Year 1					
September Semester – 4 Mandatory Courses					
B37EE	Introduction to Electrical and Electronic Engineering	Mandatory	1	September	Sept 2023 To Dec 2023
B27MW	Mechanics, Fields and Forces	Mandatory	1	September	
B57AS	Mechanical Engineering in Context 1	Mandatory	1	September	
F17XA	Maths Engineers Scientists 1	Mandatory	1	September	
January Semester – 4 Mandatory Courses					
F17XB	Maths Engineers Scientists 2	Mandatory	1	January	Jan 2024 To Apr 2024
B57AT	Mechanical Engineering in Context 2	Mandatory	1	January	
B57AU	Introduction to Mechanical Engineering	Mandatory	1	January	
B27FF	Waves and Matter	Mandatory	1	January	
Direct Entry & Continuing Students					
Year 2					
September Semester – 4 Mandatory Courses					
B58DB	Design and Manufacture 2	Mandatory	2	September	Sept 2023 To Dec 2023
B58FB	Fluid Mechanics A	Mandatory	2	September	
B58SB	Strength of Materials A	Mandatory	2	September	
F18XC	Maths Engineers Scientists 3	Mandatory	2	September	
January Semester – 4 Mandatory Courses					
B58MB	Dynamics A	Mandatory	2	January	Jan 2024 To Apr 2024
B38EI	Electrical Power and Machines	Mandatory	2	January	
B58TB	Thermodynamics A	Mandatory	2	January	
F18XD	Maths Engineers Scientists 4	Mandatory	2	January	
Year 3					
September Semester – 4 Mandatory Courses					
B49CJ	Sustainable Development and Engineering Management	Mandatory	3	September	Sept 2023 To Dec 2023
B59DE	Design and manufacture 3	Mandatory	3	September	
B59FC	Fluid Mechanics B	Mandatory	3	September	
B59SC	Mechanics of Materials B	Mandatory	3	September	

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<b>January Semester – 4 Mandatory Courses</b>					
B59MC	Vib Analysis & Control Eng	Mandatory	3	January	Jan 2024 To Apr 2024
B59TC	Thermodynamics B	Mandatory	3	January	
B59DF	Design and Manufacture 4	Mandatory	3	January	
B59AC	Automotive Technologies 1	Mandatory	3	January	
<b>Year 4</b>					
<b>September Semester – 3 Mandatory and 1 Optional Course(s)</b>					
B50PA	Project 1	Mandatory	4	September	Sept 2023 To Dec 2023
B50DG	Engineering Design	Mandatory	4	September	
B50EO	Dynamics 1	Mandatory	4	September	
B50EM	Advanced Mechanics of Materials 1	Optional	4	September	
B50EK	Fluids 1	Optional	4	September	
B50TE	Heat Exchangers and HT	Optional	4	September	
<b>January Semester – 4 Mandatory Courses</b>					
B50AD	Automotive Technologies 2	Mandatory	4	January	Jan 2024 To Apr 2024
B50DH	Engineering Manufacture	Mandatory	4	January	
B50PB	Project 2	Mandatory	4	January	
B50EP	Dynamics 2	Mandatory	4	January	