

ROAD MAP (BSME)

SEMESTER 1	Cr. Hrs.
Applied Physics	3
Applied Mathematics-I	3
Applied Chemistry	2
Engineering Drawing & Graphics	2
Computer System & Programming	3
Functional English	2
Introduction to Engineering	1

SEMESTER 2	Cr. Hrs.
Applied Mathematics-II	3
Engineering Mechanics-I: Statics	3
Computer Aided Drawing	1
Workshop Practice	2
Engineering Materials	3
Communication Skills	2
Electrical Engineering	3

SEMESTER 3	Cr. Hrs.
Engineering Mechanics-II: Dynamics	3
Applied Mathematics-III	3
Mechanics of Materials-I	3
Thermodynamics-I	3
Engineering Mechanics Lab	1
Pakistan Studies	2
Technical Report Writing & Presentation Skills	2

SEMESTER 4	Cr. Hrs.
Mechanics of Materials Lab	1
Fluid Mechanics-I	3
Mechanics of Materials-II	3
Machine Design-I	3
Thermodynamics-II	3
Social Sciences (Elective)	2
Electronics Engineering	3
Thermodynamics Lab	1

SEMESTER 5	Cr. Hrs.
Applied Mathematics-IV	3
Heat and Mass Transfer	3
Machine Design-II	2
Fluid Mechanics-II	3
Fluid Mechanics Lab	1
Instrumentation and Measurement	3
Manufacturing Processes	4

SEMESTER 6	Cr. Hrs.
Control Engineering	3
Mechanics of Machines	3
Engineering Statistics	3
Heating, Ventilating and Air Conditioning	3
Technical Elective-I	2
Heat Transfer and HVAC Lab	1
Health, Safety and Environment	1

SEMESTER 7	Cr. Hrs.
Mechanical Vibrations	3
Technical Elective-II	2
Internal Combustion Engines	3
Engineering Economics	2
Senior Design Project-I	3
Mechanisms and Mechanical Vibrations Lab	1
Introduction to Finite Element Analysis	3

SEMESTER 8	Cr. Hrs.
Islamic Studies/Ethics	2
Power Plants	3
Entrepreneurship	1
Management Elective	2
IC Engines and Power Plants Lab	1
Technical Elective-III	2
Senior Design Project-II	3

