B.Tech **352 COMPREHENSIVE EXAM

LIST OF COURSES FOR OBJECTIVE TYPE EXAMINATION

COMMON COURSES FOR ALL BRANCHES (10 questions)

1	MA101 Calculus (1 question)
2	MA102 Differential Equations (1 question)
3	BE100 Engineering Mechanics (2 questions)
4	BE110 Engineering Graphics (2 questions)
5	BE103 Introduction to Sustainable Engineering (2 questions)
6	BE102 Design & Engineering (2 questions)

BRANCH SPECIFIC CORE COURSES

(40 questions – minimum 6 questions from each course)

(to decorate minimum o decorate more common to		
1. Aeronautical Engineering		
1	AO201 Aircraft Basics and Controls	
2	AO206 Propulsion - I	
3	AO202 Aerodynamics - I	
4	AO204 Aircraft Structures - I	
5	AO301 Aerodynamics -II	
6	AO305 Flight Mechanics	

2. Applied Electronics and Instrumentation Engineering		
1	AE301 Control System	
2	EC201 Network Theory	
3	AE303 Electrical Measurements & Measuring Instruments	
4	EC204 Analog Integrated Circuits	
5	AE204 Sensors and Transducers	
6	EC207 Logic Circuit Design	

3. Automobile Engineering

1 AU201 SI Engines & Combustion

2 AU203 Auto Chassis

3 AU204 CI Engines & Combustion

4 AU206 Auto Transmission

5 ME311 Manufacturing Processes

6 AU307 Vehicle Body Engineering

4. Biomedical Engineering		
1	BM201 Basic Medical Sciences for Engineers	
2	BM202 Biophysics	
3	BM204 Integrated Circuits & Systems	
4	BM301 Biomedical Signals & Systems	
5	BM303 Biosensors & Transducers	
6	BM307 Hospital Engineering	

5. Biotechnology				
1	BT201 - Fluid flow and particle technology			
2	BT207 - Microbiology			
3	BT202 - Bioprocess heat transfer			
4	BT208 - Principles of Biochemistry			
5	BT309 - Enzyme Engineering and Technology			
6	BT305 - Cellular and Molecular Biology	Λ Λ Λ		
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	TECHNICION	TAT		
6. Ch	6. Chemical Engineering			
1	CH205: Eluid and Partiala Machanias I	-1 1		

6. Ch	6. Chemical Engineering		
1	CH205: Fluid and Particle Mechanics I		
2	CH202: Process Heat Transfer		
3	CH204: Chemical Engineering Thermodynamics		
4	CH303: Mass Transfer Operations I		
5	CH301: Environmental Engineering		
6	CH305: Chemical Reaction Engineering I		

7. Civ	7. Civil Engineering	
1	CE201: Mechanics of Solids	
2	CE203: Fluid Mechanics I	
3	CE202: Structural Analysis I	
4	CE204: Construction Technology	
5	CE208: Geotechnical Engineering I	
6	CE301: Design of Concrete Structures-I	

8. Computer Science and Engineering		
1	CS201: Discrete Computational Structures	
2	CS205: Data Structures	
3	CS202: Computer Organization and Architecture	
4	CS204: Operating Systems	
5	CS208: Principles of Database Design	
6	CS301; Theory of Computation	

9. Electrical and Electronics Engineering		
1	EE201 : Circuits and Networks.	
2	EE203 : Analog Electronic Circuits	
3	EE205 : DC Machines and Transformers	
4	EE204: Digital Electronics and Logic Design	
5	EE303 : Linear Control Systems	
6	EE301: Power Generation, Transmission and Protection	

10. Electronics and Biomedical Engineering		
1	BM201 Basic Medical Sciences for Engineers	
2	IC207 Design of Logic Circuits	
3	BM204 Integrated Circuits & Systems	
4	BM301 Biomedical Signals & Systems	
5	BM303 Biosensors & Transducers	
6	IC206 Microcontrollers	

Ü	10200 Microcondioners	
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11. E	ectronics and Communication Engineering	AIVI
1	EC201 Network Theory	TAT
2	EC205 Electronic Circuits	A
3	EC207 Logic Circuit Design	1
4	EC202 Signals & System	(-
5	EC208 Analogue Communication Engineering	
6	EC303 Applied Electromagnetic Theory	

12. Fo	ood Tec	hnology
1	FT201	Food Microbiology
2	FT205	Fundamentals of Heat and Mass Transfer
3	FT204	Engineering Properties of Biological Materials
4	FT303	Unit operations in Food Processing
5	FT305	Food Process Engineering
6	FT307	Food Analysis

13. In	13. Industrial Engineering	
1	IE303 Operations Research	
2	IE305 Work Study & Ergonomics	
3	ME303 Machine Tools & Digital manufacturing	
4	ME220 Manufacturing Technology	
5	ME200 Fluid Mechanics & Machinery	
6	ME213 Theory of Machines	

14. In	14. Information Technology	
1	CS 205 Data structures	
2	CS 202 Computer Organization & Architecture	
3	CS 208 Principles of Database Design	
4	IT 303 Theory of Computation	
5	IT 305 Operating Systems	
6	IT 307 Computer Networks	

15. Instrumentation and Control Engineering		
1	IC 201 - Basic Instrumentation Engineering and	
	Transducers	
2	IC 207- Design of logic circuits	
3	BM 204 - Integrated circuits and systems	
4	IC 301 - Control Engineering I	
5	IC 305 - Signals and systems	
6	IC 307 - Industrial Instrumentation I	
	API ABDUL KAI	AM
16. N	Mechanical Engineering	TAY

16. Mechanical Engineering	
1	ME201 Mechanics of Solids
2	ME205 Thermodynamics
3	ME210 Metallurgy & Materials Engineering
4	ME206 Fluid Machinery
5	ME220 Manufacturing Technology
6	ME301 Mechanics of Machinery

17. M	17. Mechanical (Automobile) Engineering	
1	AU205 Automotive Chassis	
2	ME214 Theory of Machines	
3	AU212 Automobile Power Plant	
4	AU301 Auto Transmission	
5	AU303 Fuels and Combustion	
6	AU305 Vehicle Maintenance	

18. Mechanical (Production) Engineering	
1	ME200- Fluid Mechanics & Machinery
2	ME216- Mechanical Technology
3	MP208- Metal Joining Technology
4	MP301- Metal Forming Technology
5	ME301- Mechanics of Machinery
6	MP305- Theory of metal cutting

19. M	19. Mechatronics	
1	MR205 Science of Measurements	
2	ME200 Fluid Mechanics & Machinery	
3	MR202 Sensors And Actuators	
4	MR 301 Linear Control Systems	
5	MR 303Microprocessor and Microcontroller	
6	MR 305 PLC and Data Acquisition Systems	

20. Metallurgy	
1	MT201 Metallurgical thermodynamics and kinetics
2	MT202 Physical metallurgy
3	MT208 Mechanical behaviour and testing
4	MT301 Metal joining technology
5	MT303 Iron and Steel Making
6	MT307 Foundry technology

4	MT301 Metal joining technology
5	MT303 Iron and Steel Making
6	MT307 Foundry technology
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21. N	aval Architecture and Ship Building
1	SB205 Introduction to Naval Architecture & Ship
	Building
2	SB202 Resistance & Propulsion of Ships
3	SB204 Stability of Ships & Submarines
4	SB301 Ship Dynamics
5	SB303 Structural Design of Ships
6	SB307 Strength of Ships- I

22. Pı	22. Production Engineering	
1	MP201 Machine Tool Technology	
2	MP206 Foundry Technology	
3	MP208 Metal Joining Technology	
4	ME301 Mechanics of Machinery	
5	MP301 Metal Forming Technology	
6	MP204 Industrial Engineering	

23. Safety and Fire Engineering	
1	FS203 Principles of Safety Management
2	FS205 Safety in Construction Industry
3	FS208 Fire Engineering Fundamentals
4	FS301 Planning and Design of Fire Protection Systems
5	FS307 Chemical Technology and Mechanical Operations
6	FS309 Occupational Health and First Aid