	Semester I					Semester – II						
Course code	Course Name	C	Credit Structure		Structure Course Course Name Code		Credit Structure					
		L	T	P	C			L	T	P	C	
MA 105	Calculus	3	1	0	8							
PH 107 (Quantum Physics	2	1	0	6	MA 106	Linear Algebra	2	0	0	4	
	Organic Chemistry & Inorganic Chemistry	2	0	0	4	MA 108	Ordinary Differential Equations	2	0	0	4	
CH 107	Physical Chemistry	2	0	0	4	PH 108	Electricity and Magnetism	2	1	0	6	
	Computer Programming/ Biology	2	1	0	6	*CS 101/ +BB 101	Computer Programming/ Biology	2	1	0	6	
ME 113 V	Workshop Practice	1	0	3	4	ME 119	Engineering Graphics & Drawing	0	1	3	5	
	Physics Lab Chemistry Lab	0	0	3	3	*PH 117/ +CH 117	Physics Lab Chemistry Lab	0	0	3	3	
ME 102 I	Data Analysis & Interpretation	2	1	0	6	**CE 102	Engineering Mechanics	2	1	0	6	
NC 101# N	National Cadet Corps (NCC)	0	0	0	P/NP	NC 102#	National Cadet Corps (NCC)	0	0	0	P/NI	
NO 101# N	National Sports Organization (NSS)	0	0	0	P/NP	NO 102#	National Sports Organization (NSS)	0	0	0	P/NI	
NS 101# N	National Service Scheme (NSS)	0	0	0	P/NP	NS 102#	National Service Scheme (NSS)	0	0	0	P/NI	
	Total Credits				41		Total Credits				34	

[#] Any one of these three P/NP courses

MECHANICAL ENGINEERING

MECHANICAL ENGINEERING DEPARMENT COURSE CURRICULUM FOR THE NEW PROGRAMME (DD-TFE/CADA/CIM) w.e.f. 2013 BATCH

	Semester III								
Course code	Course Name	Credit Structure							
		L	T	P	C				
ME 201	Solid Mechanics	2	1	0	6				
ME 209	Thermodynamics	2	1	0	6				
EE 101	Introduction to Electrical and Electronics Circuits	3	1	0	8				
MM 207	Engineering Metallurgy	2	1	0	6				
ME 219	Fluid Mechanics	3	1	0	8				
HS 101	Economics	2	1	0	6				
Total					40				

	Semester – IV							
Course Code	Course Name	Credit Structu						
		L	T	P	C			
ME 202	Strength of Materials	2	1	0	6			
ME 226	Mechanical Measurement	2	1	0	6			
ME 206	Manufacturing Processes I	2	1	0	6			
MA 214	Numerical Analysis	3	1	0	8			
ME 224	Fluid Mechanics Lab.	0	0	3	3			
ME 218	Solid Mechanics Lab	0	0	3	3			
ME 213	Manufacturing Practice Lab				5			
Total		1			37			

	COURSE CURRICU	LUM	FOR	THE	NEW	PROGRAM	ME (DD-TFE) w.e.f. 2013 BATCH	,					
	Semester V						Semester – VI						
Course code	Course Name	Cı	redit S	Struct	ure	Course Code			Credit Structure				
		L	T	P	C			L	T	P	C		
ME 346	Heat Transfer	2	1	0	6	ME 306	Applied Thermodynamics	2	1	0	6		
ME311	Microprocessor and Automatic Controls	2	1	0	6	ME 316	Kinematics and Dynamics of Machines	2	1	0	6		
ME 338	Manufacturing Processes II	2	1	0	6								
HS 303	Psychology or Sociology	3	0	0	6	ES 200	Environmental studies, Science& Engineering	3	0	0	3		
						HS 200	Environmental Studies	3	0	0	3		
ME 374	Manufacturing Processes Lab	0	0	3	3	ME 370	Kinematics and Dynamics of Machines Lab	0	0	3	3		
ME 307	Mechanical Measurements Lab	0	0	3	3	ME 372	Heat Transfer and Metrology Lab	0	0	3	3		
ME 661	Advanced Thermodynamics	3	0	0	6	ME 308	Industrial Engg. and Operations Research	2	1	0	6		
ME 651	Fluid Dynamics	2	1	0	6	ME 310	Microprocessor and Automatic Controls Lab.	0	0	3	3		
							Department Elective I	3	0	0	6		
Total					42	Total					39		

	COURSE CURRICU	<i>ILUM</i>	FOR	THE	NEW	PROGRAM	ME (DD-TFE) w.e.f. 2013 BA	ГСН			
	Semester VII						Semester – VII	I			
Course code	Course Name	Cı			Course Code	Course Name	Credit Structure				
		L	T	P	C			L	T	P	C
ME 423	Machine Design	2	1	2	8						
							Department Elective IV	3	0	0	6
	Department Elective II	3	0	0	6		Department Elective V	3	0	0	6
	Department Elective III Institute Elective I	3 3	0	0	6		Department Elective VI	3	0	0	6
	Institute Elective 1						Department Elective VII	3	0	0	6
							Institute Elective II	3	0	0	6
ME 441	Applied Thermodynamics Lab	0	0	3	3	ME 657	TFE Lab.	3	0	0	6
ME 663	Advanced Heat Transfer	3	0	0	6						
ME 704	Computational methods in thermal and fluid engineering	1	0	4	6						
Total					41	Total					36

	COURSE CURRICULU	M FOI	R THI	E NE	W PRO	GRAMME	(Dual Degree TFE) w.e.f. 2013 B	ATCH					
	Semester IX					Semester X							
Course code	Course Name	Course Name Cre				Course Code	Course Name	С	redit S	Structi	ıre		
		L	T	P	C			L	T	P	C		
	Department ElectiveVIII	3	0	0	6	ME	Dual Degree Project (Stage II)	0	0	0	42		
	Department ElectiveIX	3	0	0	6								
ME	Dual Degree Project (Stage I)	0	0	0	30*								
Total					42	Total					42		

^{* 10} for summer and 20 for semester IX.

Important Instructions and List of Electives for Dual Degree TFE

- (i) DD (TFE) program consists of <u>394</u> credits including 36 credits for 6 electives for the B.Tech. part, 2 institute elective,24 credits for honors, 24 credits for postgraduate level courses and 72 credits for DD project.
- (ii) For honors each student must take ME 704 and 3 elective courses (18 credits).
- (iii) For 6 B.Tech. electives, each student much select 6 courses from *List A* given in BTech Curriculum
- (iv) For 3 electives (for the honors part), each student must select 3 courses from the elective list B-TFE given below.
- (iv) For 4 postgraduate level courses, each student takes ME 651, ME 657, ME 661 and ME 663.
- (v) For the 2 Institute Electives, follow the rule given in BTech Curriculum

List B - TFE

1. ME 403: Internal Combustion Engines

- 2. ME 406: Steam and Gas Turbines
- 3. ME 412: Computational Fluid Dynamics and Heat Transfer Lab
- 4. ME 415: Computational Fluid Dynamics and Heat Transfer
- 5. ME 434 Finite Element and Boundary Element Methods
- 6. ME 456: Automobile Engineering (Transmission)
- 7. ME 477: Introduction to Optimization
- 8. ME 613: Finite and Boundary Element Methods
- 9. ME 618: Pressure Vessel Design
- 10. ME 623/439: Cryogenics Engineering II
- 11. ME 652 : Advance Fluid Dynamics
- 12. ME 662: Convective Heat and Mass Transfer
- 13. ME 664: Advanced Finite and Boundary Element Methods
- 14. ME 665: Conduction and Radiation
- 15. ME 666: Heat Exchanger Design
- 16. ME 678: Fundamentals of Gas Dynamics
- 17. ME 680: Two Phase Flow and Heat Transfer/ ME 480
- 18. ME 681: Thermal and Environmental Engineering
- 19. ME 683/420: Cryogenic Engineering I
- 20. ME 684: Air Conditioning System Design
- 21. ME 685: Analytical Combustion
- 22. ME 695: Introduction to Nuclear Engineering
- 23. ME 724: Essentials of Turbulence
- 24. ME 725: Introduction to Transport Phenomena
- 25. ME 738 Nuclear Reactor Thermal Hydraulics
- 26. ME 739 Combustion & Emissions in IC Engines

- 27. ME 741 Turbulence and Combustions Modeling
- 28. ME 743 Optical Methods in Mechanical Engineering
- 29. ME 747 Interfacial Transport Phenomena
- 30. ME 410/758 Microfluidics*
- 31. ME 757 Galerkin Methods for Fluid Dynamics
- 32. ME 760/ME 445 Fuels and Combustion
- 33. ME 763 Geophysical Fluid Dynamics
- 34. ME 766 High Performance Scientific Computing
- 35. ME 769 Combustion in Automobile and Gas Turbine Engines
- 36. ME 770 Thermal Design of Electronics Equipment
- 37. ME 776 Fluid Structure Interaction.
- 38. ME 778 Moving Boundary Problems in Solidification
- 39. ME 780 Introduction to Biofluid Mechanics
- 40. EN 601: Non-ConventionalEnergy Sources.
- 41. EN 604: Fuel Cells
- 42. EN 613: Nuclear Reactor Theory
- 43. EN 615: Wind Energy Conversion Systems
- 44. EN 616: Direct Energy Conversion
- 45. EN 618: Energy Systems Modeling and Analysis
- 46. EN 619: Solar Energy for Industrial Process Heat
- 47. EN 630: Utilization of Solar Thermal Energy
- 48. EN 632: Waste to Energy
- 49. EN 634: Nuclear Reactor Thermal Hydraulics and Safety
- 50. EN 640: Solar Photovoltaic: Fundamentals, Technologies and Applications
- 51. EN 642: Power Generation and Systems Planning

- 52. EN 648: Combustion Engineering
- 53. AE 617: Numerical Methods for Conservation Laws
- 54. AE 622: Computing of High Speed Flows
- 55. AE 624: Hypersonic Flow Theory
- 56. AE 705: Introduction to Flight
- 57. AE 706: Computational Fluid Dynamics
- 58. AE 707: Aerodynamics of Aerospace Vehicles
- 59. AE 711: Aircraft Propulsion
- 60. AE 722: Grid Generation for Computational Mechanics
- 61. AE 724: Experimental Methods in Fluid Mechanics
- 62. AE 726: Heat Transfer Aerospace Applications
- 63. AE 771: Matrix Computations
- 64. AE 782: Flow Control

Important Note:

- Students are permitted to register for only one out of these two courses:
 - 1. ME 602 (Fatigue, Fracture and Failure Analysis) 2. ME 616 Fracture Mechanics
- If a course has two course codes (Eg. Microfluidics ME410 and ME758), you may register for the course only once with a course code suitable to you

	COURSE CURRICUL	UM F	OR T	THE N	VEW I	PROGRAMN	ME (DD- CADA.) w.e.f. 2013 BATC	H				
	Semester V					Semester – VI						
Course code	Course Name	Cı	redit S	Struct	ure	Course Code	Course Name	Credit Structure				
		L	T	P	C			L	T	P	C	
ME 346	Heat Transfer	2	1	0	6	ME 306	Applied Thermodynamics	2	1	0	6	
ME 311	Microprocessor and Automatic Controls	2	1	0	6	ME 316	Kinematics and Dynamics of Machines	2	1	0	6	
ME 338	Manufacturing Processes II	2	1	0	6							
HS 303	Psychology or Sociology	3	0	0	6	ES 200	Environmental studies, Sci & Eng	3	0	0	3	
						HS 200	Environmental Studies	3	0	0	3	
ME 374	Manufacturing Processes Lab	0	0	3	3	ME 370	Kinematics and Dynamics of Machines Lab	0	0	3	3	
ME XXX	Mechanical Measurements Lab	0	0	3	3	ME 372	Heat Transfer and Metrology Lab	0	0	3	3	
	Department Elective I	3	0	0	6	ME 308	Industrial Engg. and Operations Research	2	1	0	6	
	Department Elective II	3	0	0	6	ME 310	Microprocessor and Automatic Controls Lab.	0	0	3	3	
							Department Elective III	3	0	0	6	
Total					42	Total					39	

	COURSE CURRICUL	LUM F	OR T	THE I	NEW P	ROGRAMN	ME (DD-CADA.) w.e.f. 2013 BA	ТСН							
	Semester VII						Semester – VII	Ī							
Course code	Course Name	Credit Structu		Credit Structu		Credit Structure			Credit Structure		Course Name	Credit Structure			
		L	T	P	C			L	T	P	C				
ME 423	Machine Design	2	1	2	8		Department Elective VIII	3	0	0	6				
	Department Elective IV	3	0	0	6		Department Elective IX	3	0	0	6				
	Department Elective V	3	0	0	6		Department Elective X	3	0	0	6				
	Department Elective VI	3	0	0	6		Department Elective XI	3	0	0	6				
	Department Elective VII	3	0	0	6		Department Elective XII	3	0	0	6				
	Institute Elective I	3	0	0	6		Institute Elective II	3	0	0	6				
ME 441	Applied Thermodynamics Lab	0	0	3	3										
Total					41	Total					36				

	Semester IX				Semester X							
Course code	Course Name	Credit Structure		Credit Structure		Course Code	Course Name	C	redit S	Structu	ıre	
		L	T	P	C			L	T	P	C	
	Department Elective XIII	3	0	0	6	ME	Dual Degree Project (Stage II)	0	0	0	42	
	Department Elective XIV	3	0	0	6							
ME	Dual Degree Project (Stage I)	0	0	0	30							
Total	I	I	I	I	42	Total	I	1	1	1	42	

Important Instructions and List of Electives for Dual Degree CADA

- i) DD (CADA) program consists of <u>394</u> credits including 36 credits for 6 electives for the B.Tech. part, 2 institute elective,24 credits for honors, 24 credits for postgraduate level courses and 72 credits for project.
- (ii) For honors each students must take 4 electives (24 credits) from the elective list B- CADA
- (iii). For 4 postgraduate level courses (24 credits), students have to take 4 courses from the elective list B- CADA
- (iii) For 6 B.Tech. electives, each student much select 6 courses from *List A* given in BTech Curriculum
- (v) For the 2 Institute Electives, follow the rule given in BTech Curriculum

List B- CADA

1.ME 340	Analytical Methods in Engineering Applications
2.ME 356	Mechanization
3.ME 434	Finite Element and Boundary Element Methods
4.ME 477	Introduction to Optimization
5.ME 6106	Computational Structural Dynamics
6.ME 6112	Acoustics and Hearing
7. ME 613	Finite and Boundary Element Methods
8. ME 601	Stress Analysis
9.ME 602	Fatigue, Fracture and Failure Analysis *
10. ME 603	Kinematics and Dynamics of Machinery
11.ME 604	Robotics
12.ME 606	Computer Aided Design of Machines
13.ME 6102	Design of Mechatronic System
14.ME 6106	Computational Structural Dynamics
15. ME 6112	Acoustics and Hearing

16.ME 615	Machinery Vibration and Diagnostics
17.ME616	Fracture Mechanics
18.ME 617	Rapid Product Development
19.ME 618	Pressure Vessel Design
20.ME621	Mathematical Methods for Mechanics and Dynamics
21.ME 637	Manufacturing Automation
22.ME 639	Linear Systems Theory
23.ME645	MEMS – Design, Fabrication and Characterisation
24.ME 647	Automatic Control Engineering
25.ME 664	Advanced Finite and Boundary Element Methods
26.ME 667	Industrial Noise Control
27.ME 669	Design for Manufacturing
28.ME 673	Mathematical Methods in Engineering
29.ME 675	Theory of Plasticity
30.ME 676	Collaborative Engineering
31.ME 679	Micromechanics of Composites
32.ME 695	Introduction to Nuclear Engineering
33.ME 710	Vibration Engg.
34.ME 711	Manufacturing Planning and Control
35.ME 712	Computer Numerical Control and Programming
36.ME 714	Computer Integrated Manufacturing
37.ME 733	Nuclear Safety and Reliability
38.ME734	Vibro-acoustics
39. ME 735	Computer Graphics and Product Modeling
40.ME 743	Optical Methods in Mechanical Engineering

41.ME 748	Computer Aided Simulation of Machines
42.ME754	Textile Machines Design & Automation
43.ME 755	Advanced Mechanics of Solid
44.ME 759	Nonlinear Finite Element Methods
45.ME 762	Advanced Engineering Dynamics
46.ME 765	Micro-forming
47.ME 766	High Performance Scientific Computing
48.ME 768	Introduction to Microsystems Packaging
49.ME 773	Reliability modelilng and analysis of engineering systems
50. ME 775	Mechanisms in Crystal Plasticity
51.ME 778	Moving Boundary Problems in Solidification
52.ME 779	Control Systems
53. ME 782	Design Optimization
54.SC 601	Modeling of Dynamic Systems
55.SC 602	Control of Nonlinear Dynamical Systems
56. SC607	Optimization
57.SC 623	Optimal and Robust Control
58.SC 624	Differential Geometric Methods in Control
59.SC 625	Systems Theory
60. SC634	Wheeled Mobile Robotics
61.IE 702	Neural Networks Fuzzy Systems and Applications

Important Note:

- Students are permitted to register for only one out of these two courses:
 - 1. ME 602 (Fatigue, Fracture and Failure Analysis) 2. ME 616 Fracture Mechanics
- If a course has two course codes (Eg. Microfluidics ME410 and ME758), you may register for the course only once with a course code suitable to you

	Semester V	PROGRAMME (DD-CIM.) w.e.f. 2013 BATCH Semester – VI										
Course code	Course Name		redit S	Struct	ure	Course Code	Course Name		Credit Structure			
		L	T	P	C				T	P	C	
ME 346	Heat Transfer	2	1	0	6	ME 306	Applied Thermodynamics	2	1	0	6	
ME 311	Microprocessor and Automatic Controls	2	1	0	6	ME 316	Kinematics and Dynamics of Machines	2	1	0	6	
ME 338	Manufacturing Processes II	2	1	0	6							
HS 303	Psychology or Sociology	3	0	0	6	ES 200	Environmental studies, Sci & Eng	3	0	0	3	
						HS 200	Environmental Studies	3	0	0	3	
ME 374	Manufacturing Processes Lab	0	0	3	3	ME 370	Kinematics and Dynamics of Machines Lab	0	0	3	3	
ME XXX	Mechanical Measurements Lab	0	0	3	3	ME 372	Heat Transfer and Metrology Lab	0	0	3	3	
	Department Elective I	3	0	0	6	ME 308	Industrial Engg. and Operations Research	2	1	0	6	
	Department Elective II	3	0	0	6	ME 310	Microprocessor and Automatic Controls Lab.	0	0	3	3	
						ME714	Computer Integrated Manufacturing	3	0	0	6	
Total					42	Total					39	

	Semester VII		Semester – VII	me					
Course code	Course Name	Credit Structure				Course Code	Course Name		
		L	T	P	C				
ME 423	Machine Design	2	1	2	8		Department Elective VI		
	Department Elective III	3	0	0	6		DepartmentElective VII		
	Department Elective IV Department Elective V	3 3	0	0	6		Department Elective VII Department Elective IX		
	ME 409 Institute Elective I	3	0	0	6		Department Elective X Institute Elective II		
ME 441	Applied Thermodynamics Lab	0	0	3	3				
Total					41	Total			

	Semester – VII	I						
Course Code	Course Name	Credit Structure						
		L	T	P	C			
	Department Elective VI	3	0	0	6			
	DepartmentElective VII	3	0	0	6			
	Department Elective VII	3	0	0	6			
	Department Elective IX	3	0	0	6			
	Department Elective X Institute Elective II	3 3	0	0	6			
otal					42			

	COURSE CURRICULU	M FOI	R THI	E NE	W PRO	GRAMME	(Dual Degree CIM) w.e.f. 2013 B	ATCH						
Semester IX							Semester X							
Course code	Course Name	Credit Structure			ure	Course Code	Course Name	Credit Structure						
		L	T	P	C			L	T	P	C			
	Department Elective XI	3	0	0	6	ME	Dual Degree Project (Stage II)	0	0	0	42			
	Department Elective XII	3	0	0	6									
ME	Dual Degree Project (Stage I)	0	0	0	30									
Total 42						Total					42			

Important Instructions and List of Electives for Dual Degree CIM

- (i) DD (CIM) program consists of <u>394</u> credits including 36 credits for 6 electives for the B.Tech. part,2 institute elective24 credits for honors, 24 credits for postgraduate level courses and 72 credits for project.
- (ii) For honors each students must take courses ME 409 and ME 714 and 2 electives (12 credits) from the elective B CIM*
- (iii) For the postgraduate level courses each student must take 4 electives (24 credits) from the list of electives B CIM*.
- (iii) For 6 B.Tech. electives, each student much select 6 courses from *List A* given in BTech Curriculum
- (v) For the 2 Institute Electives, follow the rule given in BTech Curriculum

List B CIM*

Each student must take minimum 4 courses from Manufacturing courses

Manufacturing Courses

1. ME 340 Analytical Methods in Engineering Applications

- ME 4101 Design of Welded Structure
- 3. ME 613 Finite and Boundary Element Methods
- 4. ME 617 Rapid Product Development
- 5. ME 636 Advanced Joining Technology
- 6. ME 637 Manufacturing Automation
- 7. ME 478 Management Principles and Practice
- 8. ME 6102 Design of Mechatronic Systems
- 9. ME 6104 Maintenance Engineering and Management
- 10. ME 6108 Quality Measurement, Monitoring and Improvement
- 11. ME 6110 Nanomanufacturing Processes
- 12. ME 636 Advanced Joining Technology
- 13. ME 642 Advanced Tool Design
- 14. ME 645 MEMS Design, Manufacture and Characterisation
- 15. ME 647 Automatic Control Engineering
- 16. ME 649 Advanced Manufacturing Processes I
- 17. ME 659 Advanced Manufacturing Processes II
- 18. ME 669 Design for Manufacturing
- 19. ME 673 Mathematical Methods in Engineering
- 20. ME 675 Theory of Plasticity
- 21. ME 676 Collaborative Engineering
- 22. ME 677 Laser Material Processing
- 23. ME 679 Micromechanics of Composites
- 24. ME 711 Manufacturing Planning and Control
- 25. ME 712 Computer Numerical Control and Programming.
- 26. ME 728 Intelligent Product Design and Manufacturing

- 27. ME 730 Ultra-precision Machining
- 28. ME 735 Computer Graphics and Product Modeling
- 29. ME 743 Optical Methods in Mechanical Engineering
- 30. ME 748 Computer Aided Simulation of Machines
- 31. ME 750 Sheet Metal Engineering
- 32. ME 755 Advanced Mechanics of Solid
- 33. ME 756 Numerical Modeling of Manufacturing Processes
- 34. ME 759 Nonlinear Finite Element Methods
- 35. ME 761 Advanced Stereology and Microstructural Analysis
- 36. ME 765 Micro-forming
- 37. ME 766 High Performance Scientific Computing
- 38. ME 768 Introduction to Microsystems Packaging
- 39. ME 772 Processing of Aerospace Materials
- 40. ME 773 Reliability modelilng and analysis of engineering systems
- 41. ME 774 Aerospace Materials Processing II
- 42. ME 775 Mechanisms in Crystal Plasticity
- 43. ME 778 Moving Boundary Problems in Solidification
- 44. ME 781 Engineering Data Mining And Applications

Industrial Engineering and Operations Research Courses

- 1. ME 408 Industrial Engineering and Operations Research II
- 2. ME 711 Manufacturing Planning and Control
- 3. ME 732 Selected Applications of O.R. &AI in Manufacturing systems
- 4. IE 501 Optimization Models
- 5. IE 502 Probabilistic Models

- 6. IE 503 Operations Analysis
- 7. IE 504 Service and Infrastructure Systems
- 8. IE 505 Computer Programming and Algorithms
- 9. IE 601 Deterministic Models of Optimization and O.R.
- 10. IE 602 Service Engineering and Management
- 11. IE 603 Discrete Event Systems Simulation
- 12. IE 604 System Dynamics : Modeling and Analysis
- 13. IE 605 Engineering Statistics
- 14. IE 611 Introduction Stochastic Modeling
- 15. IE 612 Introduction to Financial Engineering
- 16. IE 614 Linear Systems
- 17. IE 616 Decision Analysis and Game Theory
- 18. IE 635 Facilities Planning
- 19. IE 641 Network flow models and Integration
- 20. IE 645 Industrial Scheduling
- 21. IE 646 Quality Engineering and Management
- 22. IE 647 Applications of Integer Programming
- 23. IE 648 Quantitative Analysis of Finance and Marketing
- 24. IE 651 Inventory planning and management
- 25. IE 702 Neural Network & Fuzzy System
- 26. IE 703 Knowledge based systems and applications
- 27. IE 704 Selected Topics in AI for Operations Research
- 28. IE705 Quantitative methods in Project Management
- 29. IE 706 Pricing and Revenue Management
- 30. IE 707 Multi-player Decision Making Models

- 31. IE 708 Markov Decision Processes
- 32. IE 710 O.R Applications in Infrastructure & Service Sectors
- 33. IE 712 Selected Applications of Stochastic Models
- 34. IE 714 Supply Chain Management

Important Note:

- 1. Students are permitted to register for only one out of these two courses:
 - 1. $ME\ 602$ (Fatigue, Fracture and Failure Analysis) 2. $ME\ 616$ Fracture Mechanics
- 2. If a course has two course codes (Eg. Microfluidics ME410 and ME758), you may register for the course only once with a course code suitable to you.