DON BOSCO INSTITUTE OF TECHONOLGY, KURLA, MUMBAI

			DON BOSCO INSTITUTE OF TECHONOLIGY, KURLA, MUMBAI	
			Department of Mechanical, (Even semester, 2018-19)	
			SE Mech	
Course Name:			Applied Mathematics IV	
Course Code			MEC401	
Faculty Name:			Satyanarayana N	
Year	2	Sem	4	
	2	Jeiii		
CO Number			Course Outcome	
MEC401.1			e to obtain Eigen values and Eigen vectors for a given square matrix	
MEC401.2	Students will	ll be able	e to 1. Infer properties of Eigen values and Eigen vectors2. Check if a matrix is derogatory or not3. Obtain pdf and cdf of	discrete and continuous random variables
MEC401.3	Students will	ll be able	e to 1. Construct diagonal matrices using the concept of similarity2. Verify Cayley- Hamilton theorem3. Obtain functions of s	square matrices4. Determine nature of the d
MEC401.4	Students will	ll be able	e to 1. Use Z-test, t- test, F-test and Chi-square test to test hypotheses2. Find work done by applying divergence and curl.	
MEC401.5	Students will	ll be able	e to 1. Evaluate vector integration using different theorems2. Use Linear Programming methods to solve optimization proble	ems
MEC401.6	2. Obtain pro	re test t robabiliti	e to o test to check independence of attributes and 'goodness of fit' es and z-values for normal distributions ethod and Dual Simplex method to optimize an LPP and analyze solutions obtained	
Course Name:			Fluid Mechanics	
Course Code			MEC402	
Faculty Name:			Babitha Devdas / Dr. S. S. Pawar	
Year	2	Sem	4	
CO Number			Course Outcome	
CC Hamber	Define fluid,	, its prop	erties and the non-dimensional numbers, identify different types of flows (compressible/incompressible, steady/unsteady, ic	deal/real, laminar/turbulent etc.), state the
MEC402.1	fundamental	al laws go	overning fluid systems, describe the approaches and methodologies to fluid flow solutions.	
MEC402.2	in compressi	sible me		·
MEC402.3	Derive the go turbulence.	governin	g equations for analysis of static and dynamic fluid flow systems for compressible and incompressible fluids. Explain conce	pts in real fluid flow including theories of
MEC402.4	Apply the fur	ındaman	tal principles and governing equations to obtain various parameters in static (Pressure, hydrostatic force, buoyant force) flu	uid evetoms and in fluid kinomatics
IVILO+UZ.4			nai principies and governing equations to obtain various parameters in static (Pressure, nydrostatic force, buoyant force) no N systems quantitatively using fundamental principles and governing equations to obtain various parameters (e.g. pressure	
MEC402.5	shear stress			, see
MEC402.6	Design a wo	orking m	odel to demonstrate a principle or application of governing laws in fluid mechanics.	
Course Name:			Industraial Electronics	
Course Code			MEC403	
Faculty Name:			Madhavi S. Pednekar	
Year	2	Sem	4	
CO Number			Course Outcome	
MEC403.1	Students will	ll be able	e to assimilate information on various analog & digital circuits and power electronic semiconductor devices.(Remember)	
MEC403.2	Students will (Understand)		e to identify and explain the basic functioning of different types of analog & digital integrated circuits, microprocessor and m	nicrocontroller with their applications.
MEC403.3			e to apply and demonstrate the working of digital logical circuits, operational amplifier and timer IC555 in various configurati	ions of analog and digital applications.
MEC403.4		ll be able	e to identify and compare the use of selected analog, digital, power electronic semiconductor device, microprocessor and m	nicrocontroller for particular applications.
MEC403.5	Students will		e acquaint with the basics of microcontroller MSP430 programming to analyse the characteristics of electronic semiconduc ons like speed control, light dimmer, switching, verification of outputs etc.(Apply) (Analyze)	ctor device, electrical machines, digital
			e to develop small analog and digital circuits/build small projects for a given specifications. (Evaluate)	

	1		·	
Course Name:			Production Process II	
Course Code			MEC404	
Faculty Name:			Sudhakar Ambhore	
Year	2	Sem	4	
CO Number			Course Outcome	
MEC404.1			to identify and describe the basic concept of metal cutting principles and mechanism, cutting tool geometry, the cutting par	<u> </u>
MEC404.2	Student wo	ill be able	to Distinguish between conventional and non-traditional machining and select best machine tool for respective machining	processes. Velocity relationship in metal
MEC404.3			to explain different forces in metal cutting , ASA, ORS tool signature and Non-traditional machining processes.	
MEC404.4	Student w	ill be able	to illustrate the different forces in metal cutting, tool life, scrap-strip layout, centre of pressure in sheet metal forming and for	orces in bending operation.
Course Name:	Kinematic	s of Mach	ninery	
Course Code	MEC405			
Faculty Name:	Sachin S /	Bajirao N	N	
Year	2	Sem	4	
CO Number			Course Outcome	
MEC405.1	Define cor	cepts of	kinematics and kinetics and determine motion parameters of various mechanisms.	
MEC405.2	Explain the	e kinemat	tic configuration to illustrate working of various mechanisms.	
MEC405.3	Use the ba	asics of ki	inematics to power transmission devices and calculate their various working parameters.	
WIEG 100.0]		. 51	
Course Name:	Data Base	and Info	rmation Retrieval	
Course Code			MEL401	
Faculty Name:			Shreeprasad M / Swapnil G	
Year	2	Sem	4	
CO Number	_		Course Outcome	
MEL401.1	Ability to de	fine and e	xplain the basics of DBMS, RDBMS and design the data model and logical schema of databases including the E-R method	
MEL401.2			andard language for basic and nested queries.	
MEL401.3			nctional dependencies and analyze it during design of the database.	
MEL401.4	To design t	he graphic	al user Interface and retrieve the data from database.	
MEL401.5			ase study (business scenario) towards design & develop database applications in a team.	
			· · · · · · · · · · · · · · · · · · ·	
Course Name:			Fluid Mechanics	
Course Code			MEL402	
Faculty Name:			Babitha Devdas / Dr. Sashikant pawar	
Year	2	Sem	4	
CO Number			Course Outcome	
MEL402.1	Demonstra	ate Berno	ulli's theorem	
MEL402.2	Calculate	coefficien	t of discharge of venturimeter	
MEL402.3	Characteri	ze loss co	pefficient of globe and gate valve	
MEL402.4	Estimate r	ninor loss	ses through the piping system	
1451 400 5	Observe	roccuro r	vrofile over an aerofoil	

MEL402.5

Observe pressure profile over an aerofoil.

Verify law of conservation of momentum for a control volume

Course Name:			Industrial Electronics	
Course Code			MEL403	
Faculty Name:			Madhavi S. Pednekar	
Year	2	Sem	4	
CO Number	2	Jeili	Course Outcome	
MEL403.1			e to identify and operate various electronic instruments and electronic components efficiently with an ease & thorough under ering) (Understanding)	erstanding to perform well in the
MEL403.2	Students v	vill be abl	e to built and test the characteristics/truth table of various analog & digital circuits and power electronic semiconductor devi	ces. (Understanding) (Applying)
MEL403.3	Students v	vill be abl	e to identify and verify the use of selected analog, digital and power electronic semiconductor devices for industrial applicat	ions.(Applying) (Analyzing)
MEL403.4	Students v	vill be abl	e to demonstrate the working of operational amplifier and timer IC555 in various configurations of analog applications. (App	lying)(Analyzing)
MEL403.5		Students will be able to analyse the characteristics of electronic semiconductor device, electrical machines, digital circuits using basic programming of microcontroller MSP430 for various applications like motor speed control, light dimmer, switching, verification of truth table etc.(Analyzing)		
MEL403.6	Students v	vill be abl	e to develop and demonstrate their thinking ability by designing simple applications to built around these components. (Mini-	i project application design) (Creation)
Course Name:			Kinematics of Machinery	
Course Code			MEL404	
Faculty Name:			Sachin S / Bajirao N	
Year	2	Sem	4	
CO Number			Course Outcome	
MEL404.1	Define cor	cepts of	kinematics and kinetics and determine motion parameters of various mechanisms.	
MEL404.2	Explain the	e kinema	tic configuration to illustrate working of various mechanisms.	
MEL404.3	Use the ba	asics of k	inematics to power transmission devices and calculate their various working parameters.	
			TE Mech	
Course Name:			Metrology and Quality Engineering	
Course Code			MEC601	
Faculty Name:			Madan K / Mahesh Rajwade	
Year	3	Sem	6	
CO Number			Course Outcome	
MEC601.1			Inspection techniques, construction & working of measuring instruments in relation with concept of Quality and Quality control.	
MEC601.2			pection Technique and Measuring Instruments in lias with manufacturing Process and also select appropriate SQC Tool according to the specific ap	plications and type of data aquired
MEC601.3			activities using appropriate measurement tool, apply suitable sqc tool and prepare a control chart from statistical data	
MEC601.4			mension and determine tolerances depending upon the fit required.	
MEC601.5	Analyse the	results obt	ained from the control chart and comment on the stability of the manufacturing process	

Course Name:			Machine Design I	
Course Code			MEC602	
Faculty Name:			Mahesh / Bajirao / Hemant Hogade	
Year	3	Sem	6	
CO Number			Course Outcome	
MEC602.1	Describe the	basic cons	iderations while designing the different types of mechanical joints, curved beams, power screws, shafts, springs and couplings	
MEC602.2	Explain the t	ype of load	ng conditions (static or fluctuating), on the component, during working conditions and identify the induced stresses along with the mode of failure	
	Use/Perform	design cal	culations based on strength concept referring design data books and choose the standard dimension	
MEC602.4	Identify and	model a ma	chine element and analyse the stresses induced using application software	
Course Name:			Finite Element Analysis	
Course Code			MEC603	
Faculty Name:			Shreeprasad M / Swapnil G	
Year	3	Sem	6	
CO Number	, and the second		Course Outcome	
	Solve diff	erential e	equations using weighted residual methods	
			lement equations to model engineering problems governed by second order differential equations	
			ite element formulation techniques to solve engineering problems by using one dimensional elements	
			ite element formulation techniques to solve engineering problems by using two dimensional elements	
			e element formulation techniques to find natural frequency of single degree of vibration system	
	Use comm	nercial FE	A software ANSYS Mechanical APDL, to solve problems related to mechanical engineering	
Course Name:			Refrigiration and Air Conditioning	
Course Code			MEC604	
Faculty Name:			Cleta P / Jenifer A	
Year	3	Sem	6	
CO Number			Course Outcome	
	Classify ar	nd Explair	the various refrigeration systems, their components and its functions and the applications for the same in various industrie	es.
			ate refrigerants, Explain the protocols and its impact on the scciety and environment.	
MEC604.3	Classify ar	nd Explair	the psychrometric properties and psychrometric processes for various air conditioning systems.	
MEC604.4	Compute t	he perfor	mance of refrigeration systems like air and vapour refrigeration systems using refrigerant property tables and refrigerant ch	art.
MEC604.5	Calculate t	the psych	rometric properties and performance of air conditioning systems for various psychrometric processes.	
MEC604.6	Design Air	Condition	ning system using cooling load calculations	
Course Name:			Mechatronics	
Course Code			MEDLO6021	
Faculty Name:			Deepika Gupta	
Year	3	Sem	6	
CO Number			Course Outcome	
	Learner w	ill be able	to identify the suitable sensor and actuator for a mechatronics system	
			to select suitable logic controls	
MEDLO6021.3	Learner w	ill be able	to analyse continuous control logics for standard input conditions	
			to develop ladder logic programming	
			to Design hydraulic/pneumatic circuits	
MEDLO6021.6	Learner w	ll be able	to Design a mechatronic system	

Course Name:			Robotics	
Course Code			MEDLO6022	
			B S Chavan	
Faculty Name:	3	C	6	
Year CO Number	3	Sem	Course Outcome	
MEC606.1	Idontify by	acia Anata	my of a robot and its control	
MEC606.1			ign principles of robotics through forward and inverse kinematics applied to workspace analysis and trajectory planning.	
MEC606.3			ations in Industry based on Vision inspection and material handling designs.	
MEC606.4			ors and actuators for interfacing, based on static and dynamic characteristics.	
MEC606.5			pects of a robot and its role, as a Humanoid	
Course Name:			Metrology and Quality Engineering	
Course Code			MEL601	
Faculty Name:			Madan K / Mahesh Rajwade	
Year	3	Sem	6	
CO Number			Course Outcome	
MEL601.1	Measure	linear and	angular dimensions	
MEL601.2			ughness, flatness	
MEL601.3			rameters of gear tooth profile	
MEL601.4			rojector for measurement	
MEL601.5	Use vario	us instrun	ents for measurement of screw threads	
	1			
Course Name:			Machine Design I	
Course Code			MEL602	
Faculty Name:			Mahesh / Bajirao / Hemant Hogade	
Year	3		6	
		Sem	Ü	
CO Number			Course Outcome	
MEL602.1		aft under	Course Outcome various conditions	
MEL602.1 MEL602.2	Design Kı	naft under nuckle Joi	Course Outcome various conditions at / cotter joint	
MEL602.1 MEL602.2 MEL602.3	Design Kı Design So	naft under nuckle Joi crew Jack	Course Outcome various conditions at / cotter joint C-clamp along with frame	
MEL602.1 MEL602.2 MEL602.3 MEL602.4	Design Kı Design So Design Fl	naft under nuckle Joil crew Jack exible flan	Course Outcome various conditions It / cotter joint C-clamp along with frame ge couplings/ Leaf spring	
MEL602.1 MEL602.2 MEL602.3	Design Kı Design So Design Fl	naft under nuckle Joil crew Jack exible flan	Course Outcome various conditions at / cotter joint C-clamp along with frame	
MEL602.1 MEL602.2 MEL602.3 MEL602.4 MEL602.5	Design Kı Design So Design Fl	naft under nuckle Joil crew Jack exible flan	Course Outcome various conditions It / cotter joint C-clamp along with frame ge couplings/ Leaf spring ensions into working/manufacturing drawing	
MEL602.1 MEL602.2 MEL602.3 MEL602.4 MEL602.5	Design Kı Design So Design Fl	naft under nuckle Joil crew Jack exible flan	Course Outcome various conditions at / cotter joint C-clamp along with frame ge couplings/ Leaf spring ensions into working/manufacturing drawing Finite Element Analysis	
MEL602.1 MEL602.2 MEL602.3 MEL602.4 MEL602.5	Design Kı Design So Design Fl	naft under nuckle Joil crew Jack exible flan	Course Outcome various conditions at / cotter joint C-clamp along with frame ge couplings/ Leaf spring ensions into working/manufacturing drawing Finite Element Analysis MEL603	
MEL602.1 MEL602.2 MEL602.3 MEL602.4 MEL602.5	Design Kı Design So Design Fl	naft under nuckle Joil crew Jack exible flan	Course Outcome various conditions at / cotter joint C-clamp along with frame ge couplings/ Leaf spring ensions into working/manufacturing drawing Finite Element Analysis	
MEL602.1 MEL602.2 MEL602.3 MEL602.4 MEL602.5 Course Name:	Design Kı Design So Design Fl	naft under nuckle Joil crew Jack exible flan	Course Outcome various conditions at / cotter joint C-clamp along with frame ge couplings/ Leaf spring ensions into working/manufacturing drawing Finite Element Analysis MEL603	
MEL602.1 MEL602.2 MEL602.3 MEL602.4 MEL602.5 Course Name: Course Code	Design Ki Design So Design Fl Convert d	naft under nuckle Join crew Jack exible flan esign dim	Course Outcome various conditions It / cotter joint C-clamp along with frame ge couplings/ Leaf spring ensions into working/manufacturing drawing Finite Element Analysis MEL603 Shreeprasad M / Swapnil G / Johnson / Dipikia / Hemant	
MEL602.1 MEL602.2 MEL602.3 MEL602.4 MEL602.5 Course Name: Course Code Faculty Name: Year CO Number MEL603.1	Design Kr Design Sc Design Fl Convert d	naft under nuckle Joi crew Jack exible flan lesign dim	Course Outcome various conditions nt / cotter joint C-clamp along with frame ge couplings/ Leaf spring ensions into working/manufacturing drawing Finite Element Analysis MEL603 Shreeprasad M / Swapnil G / Johnson / Dipikia / Hemant 6 Course Outcome ncepts of Mathematical Modeling of Engineering Problems.	
MEL602.1 MEL602.2 MEL602.3 MEL602.4 MEL602.5 Course Name: Course Code Faculty Name: Year CO Number MEL603.1 MEL603.2	Design Kr Design Sc Design Fl Convert d	naft under nuckle Joic crewble flan lesign dim	Course Outcome various conditions tt / colter joint C-clamp along with frame ge couplings/ Leaf spring gensions into working/manufacturing drawing Finite Element Analysis MEL603 Shreeprasad M / Swapnil G / Johnson / Dipikia / Hemant 6 Course Outcome ncepts of Mathematical Modeling of Engineering Problems.	
MEL602.1 MEL602.2 MEL602.3 MEL602.4 MEL602.5 Course Name: Course Code Faculty Name: Year CO Number MEL603.1 MEL603.2 MEL603.3	Design Kr Design So Design Fi Convert d	naft under nuckle Join rew Jack. exible flan esign dim	Course Outcome various conditions It / cotter joint C-clamp along with frame ge couplings/ Leaf spring ensions into working/manufacturing drawing Finite Element Analysis MEL603 Shreeprasad M / Swapnil G / Johnson / Dipikia / Hemant 6 Course Outcome Incepts of Mathematical Modeling of Engineering Problems. Ibility of FEM to a range of Engineering Problems. Delications of numerical techniques for solving problems using weighted residual methods	
MEL602.1 MEL602.2 MEL602.3 MEL602.4 MEL602.5 Course Name: Course Code Faculty Name: Year CO Number MEL603.1 MEL603.2 MEL603.3 MEL603.4	Design Kr Design St Design Fl Convert d 3 To introdu To study To acqua	semulate to application with application and the country and t	Course Outcome various conditions It / cotter joint C-clamp along with frame ge couplings/ Leaf spring gensions into working/manufacturing drawing Finite Element Analysis MEL603 Shreeprasad M / Swapnil G / Johnson / Dipikia / Hemant 6 Course Outcome ncepts of Mathematical Modeling of Engineering Problems. Ibility of FEM to a range of Engineering Problems. Dications of numerical techniques for solving problems using weighted residual methods FEM concepts to any engineering problems and predict the performance of the system under certain specific characteristic	
MEL602.1 MEL602.2 MEL602.3 MEL602.4 MEL602.5 Course Name: Course Code Faculty Name: Year CO Number MEL603.1 MEL603.2 MEL603.3	Design Kr Design St Design Fl Convert d 3 To introdu To study To acqua	semulate to application with application and the countries of the countrie	Course Outcome various conditions It / cotter joint C-clamp along with frame ge couplings/ Leaf spring ensions into working/manufacturing drawing Finite Element Analysis MEL603 Shreeprasad M / Swapnil G / Johnson / Dipikia / Hemant 6 Course Outcome Incepts of Mathematical Modeling of Engineering Problems. Ibility of FEM to a range of Engineering Problems. Delications of numerical techniques for solving problems using weighted residual methods	

Course Name:		Refrigiration and Air Conditioning	
Course Code		MEL604	
Faculty Name:		Cleta P / Jenifer A	
Year	3 Sem	6	
CO Number	0 00111	Course Outcome	
MEL604.1	Demonstrate fundar	mental principles of refrigeration and air conditioning	
MEL604.2		various important components of the refrigeration and air conditioning system	
MEL604.3		refrigeration and air conditioning processes using refrigerant chart or psychometric chart	
MEL604.4	Calculate the prefor	mance of the refrigerating and airconditioning system	
MEL604.5	·		
Course Name:		Mechatronics	
Course Code		MEL605	
Faculty Name:		B S Chavan / Deepika Gupta	
Year	3 Sem	6	
CO Number		Course Outcome	
MEL605.1		mentation of interfacing sensors and actuators using micro-controllers	
MEL605.2		te control system using PLC micro-controller	
MEL605.3		to PLC system and demonstrate its application	
MEL605.4		circuits for specific application	
MEL605.5	Develop electro-pne	eumatic circuits for specific application	
		BE Mech	
Course Name:		Design of Mechanical Systems	
Course Code		MEC801	
Faculty Name:		Johnson Nellisery/ Pradeepkumar	
Year	4 Sem	8	
CO Number		Course Outcome	
MEC801.1	Describe the princip	oles and applications of EOT crane, belt conveyors, gear boxes, I . C engines compressors and pumps.	
MEC801.2		nponents to form a suitable power transmission system to satisfy given requirements and then will be able to evolve detail	
MEC801.3		of loading and resulting stresses needed while solving design and then design formulation by using the allowable or permiss	sible values to examine the designed
MEC801.4		se appropriate drives by justifying the metallurgical and other technical aspect of the system design	
MEC801.5	Minimize the charac	cteristic dimension of the system condsideraing space requirment.	
Causa Nama		Indicated Facing and Management	
Course Name:		Industrial Engineering and Management	
Course Code		MEC802	
Faculty Name:		Sandeep Dasgupta/ Sandeep Sabnis	
Year	4 Sem	8	
CO Number		Course Outcome	
MEC802.1		e to list down objective of industrial engineering, various FMS layouts, name the contributors of IE, define productivity & fac ork study, method study, work measurement, ergonomics and recall concepts of PMTS, NPV, IRR etc.	tors influencing productivity, value engg.,
MEC802.2		e to demonstrate the factors influencing the productivity, explain the productivity improvement techniques, bio-mechanics, trate significance of ergonomics in IE, depreciation, balance sheet etc.	anthropometry, compare the value engg.&
MEC802.3		e to apply the knowledge of mathematics, science, and engineering in determining productivity, performance rating, standa bbs, value streaming of common product, identify various plant layouts, construct the annuity table.	rd time of work, NPV, IRR, develop flow
MEC802.4		e to compare value analysis & value engg., job evaluation & merit rating, assets & liability, distinguish between production & xamine line balancing & ergonomical aspects of working environments, categorize various plant layout and examine a bala	
MEC802.5	Students will be able & P/L a/c.	e to assess scope of improvement in work study, decide the investment decision based on NPV, evaluate the various jobs	n an organization, compare balance sheet

Course Name:	Refrigeration and Air Conditioning	
Course Code	MEC803	
Faculty Name:	Dr Padiya Y / Pawan K	
Year	4 Sem 8	
CO Number	Course Outcome	
MEC803.1	State different terminologies and components used in refrigeration and air conditioning systems	
MEC803.2	Explain the different terminologies, components and working principal of refrigeration and air conditioning unit	
MEC803.3	Interpret the performance of refrigeration and air conditioning unit at given operating conditions.	
MEC803.4	Compare the performance of refrigeration and air conditioning unit at different operating conditions	
MEC803.5	Select refrigeration and air conditioning unit for given operating conditions	
MEC803.6	Design of basic air conditioning systems	
Course Name:	Renewable Energy Sources	
Course Code	MEE8022	
	Pawan kulkarni	
Faculty Name:	T GWAT KUNGTH	
Year	4 Sem 8	
CO Number	Course Outcome	
MEE8022.1	Exemplify to recognize the value of worldwide and national renewable energy need, importance, hurdles/ challenges for implementation, poten economic policies	tial, strategic plan and promoting socio-
IVIEE0UZZ. I	economic policies	
MEE8022.2	Determine parameters and illustrate considerations related to analysis, evaluation and design of renewable energy sources and applications	
MEE8022.3	Summarize basic principle, features and recent investigations of various renewable energy sources and related equipment	
MEE8022.4	Explain principles of and procedure for energy conservation and management	
WILLOUZZ.+	Explain principles of this procedure for others with the international and management	
Course Name:	Project Management	
Course Code	MEE8023	

Faculty Name:	Sandeep Sabnis	
Vaar	4 Sem 8	
Year	4 3611 0	
OO Normborn	Our Out on the Control of the Contro	
CO Number MEE8023.1	Course Outcome Student defines project and describes project selection methods, differentiates between project and operation, types of project life cycles, varie	ous organisational types and stage gate
MEE8023.1	Student selects project and describes project selection methods, underentiates between project and operation, types or project me cycles, variables the project scope using WBS i	
MEE8023.3	Student developes a time plan for the project using scheduling techniques like PERT, CPM, GANTT Chart etc. and reorganises project using t	
MEE8023.4	Student practices monitoring and control of the project using techniques like Earned Value Management and Control ratio	
MEE8023.5	Student describes various project termination methods and summarize lessons learned from the project and documents the same for future re	ference
Course Name:	Process Equipment Design	
Course Code	MEE8027	
Faculty Name:	Dr.Rao	
Year	4 Sem 8	
CO Number	Course Outcome	
MEE8027.1	1. Understand basics knowledge, operating parameters, basic considerations, essentiality/importantance of various documents	
MEE8027.2	Use standards and various codes for designing process equipment and develop datasheets	
MEE8027.3	3. Design of various components of process equipment	
MEE8027.4	4. Analyse and provide the right design	
MEE8027.5	5. Demonstatre the proficiency in design of process equipment as per the process requirement	
Course Name:	World Class Manufacturing	
Course Code	MEE80210	
Faculty Name:	Madan Kulkarni	

Year	4	Sem	8	
CO Number			Course Outcome	
MEE80210.1	Demonstrate the relevance and basics of World Class Manufacturing			
MEE80210.2	Identify the factors of competitiveness and performance measures based on which, global manufacturing success is bench marked			
MEE80210.3	Draw current Status of Indian Manufacturing scenario and design and develop a roadmap to achieve world class manufacturing status			
	-			