JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES

(An Autonomous Institution)

	List of New Courses for the Academic Year 2016-17				
S.NO		of the program	Number of Courses		
		ngineering			
		8			
	×	-			
	\triangleright				
1	\triangleright				
	\succ	Engineering Geology & Rock Mechanics			
	\triangleright				
	\triangleright	Engineering Hydrology	48		
	\triangleright				
	\triangleright	Remote Sensing and GIS			
	\triangleright	Engineering Geology Lab			
		Concrete Technology Lab			
	\triangleright	Irrigation Engineering and Hydraulic Structures			
	\triangleright	Structural Analysis-II			
	\triangleright	Design of Steel Structures			
	\triangleright	Bridge Engineering			
	\succ	Watershed Management			
	\triangleright	Rehabilitation and Retrofitting of Structures			
	\triangleright	Advanced Communication Skills Lab			
	\triangleright	Soil Mechanics Lab			
	\triangleright				
	\succ	Energy Studies			
	\triangleright	Environmental Engineering			
	\triangleright	Highway Engineering			
	\triangleright	Foundation Engineering			
	\triangleright				
	\triangleright	Elements of Earth Quake Engineering			
	\triangleright	Estimation & Valuation			
	\triangleright	Theory of Elasticity and Plasticity			
	\triangleright	Traffic Engineering and Transportation Planning			
	\triangleright	Environmental Engineering Lab			
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	\triangleright	- · · · · · · · · · · · · · · · · · · ·			
	\triangleright	Railway and Airport Engineering			

List of New Courses for the Academic Year 2016-17

	4	Finite Element Method	
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		Advanced Reinforced Concrete Structures	
		cal and Electronics Engineering	
		Electrical Circuits – I	
		Basic Electronics Engineering	
		Basic Electronics Lab	
		Electromagnetic fields	
		Electrical circuits-II	
		Electrical Machines-I	
		Electrical Circuits Lab	
		Electrical Circuits Lab	
		Power systems-I	
		Electrical Machines-II	
		Basic Electrical Simulation Lab	
		Control Systems	
		Power system-II	
		Electrical Machines-III	
		Power Electronics Renewable Energy Sources	
		Energy Storage Systems	
		Electrical Engineering Materials	
		Control Systems Lab	
		Electrical Machines-II Lab	
2	\succ	Switch Gear and Protection	
2	\succ	Power Semi conductor Drives	
	\succ	Electrical & Electronics Instrumentation	
	\succ	Utilization of Electrical Energy	
	\succ	Power System Reliability	
	\succ	Electrical Estimation and Costing	41
	\succ	Power Electronics Lab	
		Electrical Measurements Lab	
		Power system Operation & control	
	\succ	Computer Methods in Power Systems	
	\succ	Design of Electrical Machines	
	\succ	Modern Power Electronic Converters	
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		Extra high Voltage AC Transmission	
		Power Quality	
		Neural Networks and Fuzzy logic	
		Linear Systems Analysis	
		Advanced Control Systems	
		nical Engineering Engineering Mechanics-I	
3			
5			
	-	Engineering Oraphics-in	

	Ν	Engineering Westschen & IT Wests Chen	
		Engineering Workshop & IT Work Shop	
		Mechanics of solids	
		Metallurgy and Materials Science	
		Production Technology	
	\triangleright	Metallurgy and Materials Science Lab	
	\triangleright	Mechanics of Solids Lab	
	\succ	Production Technology Lab	
	\triangleright	Thermal Engineering-1	
	\succ	Mechanics of Fluids & Hydraulic Machines	
	\succ	Mechanics of Fluids & Hydraulic Machines Lab	
		Machine Drawing Practice Lab	
		Thermal Engineering-II	
		Kinematics of Machinery	
		Machine Tools	
		Refrigeration and Air Conditioning	
		Renewable Energy Sources	
		Mechatronics	
		Thermal Engineering Lab	
		Machine Tools Lab	50
		Heat transfer	50
		Dynamics Of Machinery	
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		Design of Machine Elements	
		Finite Element Method	
		Plant Layout & Material Handling	
		Automation in Manufacturing	
		Heat Transfer Lab	
		Production Drawing Practice	
		Product Design Lab	
		Metrology and Instrumentation	
		CAD/CAM	
		Operation Research	
	\succ	Reliability Engineering	
	\succ	Modeling and Simulation of manufacturing	
		systems	
	\triangleright	Power Plant Engineering	
	\triangleright	Advanced Strength of Materials	
	\triangleright	Mechanics of Composite Materials	
	\triangleright	Metrology and Instrumentation Lab	
	\succ	CAD/CAM Lab	
	\triangleright	Automobile Engineering	
	\triangleright		
	\checkmark	Gas Dynamics	
	\succ		
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4		Electronics and Communication Engineering	ng

r	1		
	\succ	Electrical Circuits	
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		Electronic circuit Analysis	
		Electronic Circuit Analysis Lab	
		Basic Simulation Lab	
		Probability Theory and Stochastic Process	
		Pulse and Digital Circuits	
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		Digital Communications	
		Digital Design through HDL	
		Control Systems	
		IC Applications Electronic Measurements & Instrumentation	
		Data Acquisition System	
		Digital Television Engineering	
		IC & HDL Simulation Lab	
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	>		
		Digital Signal Processing	
	>		
		VLSI Technology	
		Telecommunication Switching Networks	
		Data Communication and Networking	
		Digital Signal Processing Lab	
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	\succ	· · · · · · · · ·	
		Engineering	48
	\succ	Digital Image Processing	40
	\succ	Operating Systems	
	\succ	Low Power VLSI Design	
	\succ	Wireless Communication Networks	
	\checkmark	Satellite Communication	
	\checkmark	Real Time Operating systems	
	\succ	5	
	\succ	Microwave and Optical communication Lab	
	\succ	Wireless Sensor Networks	
	>	Digital Signal Processors and Architectures	
	>	8	
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	~	Multimedia and Signal coding	
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-	Compu	iter Science and Engineering	
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	\succ	Information Technology workshop	
		Data Structures through C++	
		Data Structures through C++ Lab	
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	\succ	Database Management Systems	
	\succ		
	\succ	Database Management Systems Lab	
	\succ	Java Programming Lab	
	\succ	Design and Analysis of Algorithms	
		Formal Languages and Automata Theory	
	\succ	Operating Systems	
	\succ	Software Engineering	
	\succ	Operating Systems Lab	
	\succ	CASE Tools Lab	
	\succ	Computer Networks	
	\succ	Compiler Design	
	\succ	Machine Learning	48
	\succ	Computer Forensics	
5	\succ	Advanced Databases	
	\succ		
	\succ	Data Warehousing and Data Mining	
	\succ	Web Programming	
	\succ	5	
	\succ	High Performance Computing	
	\succ	Design Patterns	
	\succ	Software Project Management	
	\succ	6 6	
		Web Programming Lab	
		Visual Programming Lab	
	\succ	6 6	
		Mobile Application Development	
	\rightarrow	Software Testing Methodologies	
		Computer Graphics and Multimedia	
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	×	Mobile Application Development Lab	
		E-Commerce	

	Semantic Web and Social Networks	
	Web Services	
	Human Computer Interaction	
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×	Soft Computing	
	M.Tech Computer science and Engineering	
	Data Structures and Algorithms	
	Database Internals	
	Distributed Systems	
	Network Security	
\checkmark	Android Application Development	
	Cloud Computing	
►	Internet of Things	
	Machine Learning	
	Parallel and Distributed Algorithms	
	Software Architecture and Design Patterns	
►	Embedded Systems	
►	Data Structures and Algorithms Lab	
\checkmark	Network Programming	
	Information Retrieval Systems	24
\checkmark	Internet Technologies and Services	
\checkmark	Data Mining	
	Storage Area Networks	
	Semantic Web and Social Networks	
\checkmark	Cyber Security	
	Big Data Analytics	
	Soft Computing	
	Software Process and Project Management	
	Distributed Computing	
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	M.Tech(Embedded Systems)	
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4	ARM Architectures	
	Real Time Operating Systems	
>	Advanced Computer Architectures	
<	Embedded C	13
	Design for Testability	
	Research Methodology	
	Digital Signal Processing Architectures and Algorithms	
	Embedded Networking	
	Sensors and Actuators CPLD and FPGA Architectures	
	Hardware and software Co design	
	Intellectual Property Rights(IPR)	
	incriticular r toperty Kignis(IFK)	

Frincipal Principal Jayanukii Institute of Rehnological Sciences. Nacsampet, Waren gal-506332.

MASTER OF BUSINESS ADMINISTRATION (MBA) R15

COURSE STRUCTURE AND SYLLABUS

I Year – I Semester

Code	Course Title	Int.	Ext.	L	Р	С
		marks	marks			
AJBM01	PRINCIPLES OF MANAGEMENT AND ORGANISATIONAL BEHAVIOUR	40	60	3	-	3
AJBM02	BUSINESS LAWS & ENVIRONMENT	40	60	3	-	3
AJBM03	MANAGERIAL ECONOMICS	40	60	3	-	3
AJBM04	FINANCIAL ACCOUNTING & ANALYSIS	40	60	3	-	3
AJBM05	STATISTICS FOR MANAGEMENT	40	60	3	-	3
AJBM06	E – COMMERCE CROSS CULTURE MANAGEMENT WTO &IPR TOTAL QUALITY MANAGENT PROJECT MANAGEMNT	40	60	3	-	3
AJBM52	STATISTICAL DATA ANALYSIS - LAB	50	-	-	4	2
AJBM53	BUSINESS COMMUNICATION- SEMINAR	50	-	-	4	2
	Total Credits			18	8	22

I Year - II Semester

Code	Course Title	Int.	Ext.	L	Р	С
		marks	marks			
AJBM07	HUMAN RESOURCE MANAGEMENT	40	60	3	-	3
AJBM08	MARKETING MANAGEMENT	40	60	3	-	3
AJBM09	FINANCIAL MANAGEMENT	40	60	3	-	3
AJBM10	QUANTITATIVE ANALYSIS FOR BUSINESS	40	60	3	-	3
	DECISIONS					
AJBM11	ERP	40	60	3	-	3
	□ FOREIGN TRADE					
AJBM12	□ BANKING,INSURANCE & RISKMANAGEMENT					
	□ LOGISTICS & SUPPLY CHAIN MANAGEMENT				-	
	□ MSME MANAGEMENT	40	60	3		3
AJBM54	ANNUAL REPORT ANALYSIS - LAB	50	-	-	4	2
AJBM55	SUMMER INTERNSHIP - SEMINAR	50	-	-	4	2
	Total Credits			18	8	22

II Year – I Semester

Code	Course Title	Int. mark	Ext. mark	L	Р	С
		s	s			
AJBM13	OPERATIONS MANAGEMENT	40	60	3	-	3
AJBM14	STRATEGIC MANAGEMENT	40	60	3	-	3
AJBM15	RESEARCH METHDOLOGY	40	60	3	-	3
Core Elective I	(MRKG/HRM/FIN/SYS)	40	60	3	-	3
Core Elective II	(MRKG/HRM/FIN/SYS)	40	60	3	-	3
Core Elective III	(MRKG/HRM/FIN/SYS)	40	60	3	-	3
AJBM56	PERSONAL EFFECTIVENESS - SEMINAR	50	-	-	4	2
	BUSINESS BEST PRACTICES AND SUCCESS	50	-	-	4	2
AJBM57	STORIES OF EMERGING LEADERS - SEMINAR					
	Total Credits			18	8	22

CORE ELECTIVE STREAMS (choose any one stream subjects as Core Electives)

MARKETING	ELECTIVES
AJBMEM18	CONSUMER BEHAVIOUR
AJBMEM19	SALES AND DISTRIBUTION
AJBMEM20	INTEGRATED MARKETING COMMUNICATIONS
AJBMEM21	RETAILING MANAGEMENT
AJBMEM22	SERVICES MARKETING
AJBMEM23	INTERNATIONAL MARKETING
FINANCE EL	ECTIVES
AJBMEF26	STRATEGIC MANAGEMENT ACCOUNTING
AJBMEF27	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT
AJBMEF28	FINANCIAL INSTITUTIONS, MARKETS & SERVICES
AJBMEF29	STRATEGIC INVESTMENT AND FINANCING DECISIONS
AJBMEF30	INTERNATIONAL FINANCIAL MANAGEMENT
AJBMEF31	FINANCIAL DERIVATIVES
HR ELECTIV	ES
AJBMEH35	PERFORMANCE MANAGEMENT
AJBMEH36	TRAINING AND DEVELOPMENT

II Year - II Semester

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Code	Course Title	Int.	Ext.	L	Р	С
		marks	marks			
AJBM16	ENTREPRENUERSHIP	40	60	3	-	3
AJBM17	TECHNOLOGY MANAGEMENT	40	60	3	-	3
Core Elective IV	(MRKG/HRM/FIN/SYS)	40	60	3	-	3
Core Elective V	(MRKG/HRM/FIN/SYS)	40	60	3	-	3
Core Elective VI	(MRKG/HRM/FIN/SYS)	40	60	3	-	3
AJBM58	PRE SUBMISSION OF PROJECT –SEMINAR	50	-	-	4	2
AJBM59	COMPREHENSIVE VIVA	-	100	-	4	2
AJBM60	PROJECT	40	60	-		3
	Total Credits			15	8	22
AJBMEH37 M	ANAGEMENT OF INDUSTRIAL RELATIONS					

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AJBMEH38	COMPENSATION & REWARD MANAGEMENT
AJBMEH39	INTERNATIONAL HUMAN RESOURCE MANAGEMENT
AJBMEH40	LEADERSHIP & CHANGE MANAGEMENT
AJBMEH41	
SYSTEMS E	LECTIVES
AJBMES44	BUSINESS INTELLIGENCE
AJBMES45	DATABASE MANAGEMENT SYSTEMS
AJBMES46	DECISION SUPPORT SYSTEMS
AJBMES47	E-BUSINESS
AJBMES48	KNOWLEDGE MANAGEMENT
AJBMES49	INFORMATION SYSTEMS, CONTROL

Legend: A – Autonomy J – Jayamukhi BM- Business Management

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