



JAGADAMBHA
COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL

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**1.2.1: Number of Programmes in which Choice Based Credit System (CBCS)/
elective course system has been implemented**

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Dr. Hemant M. Baradkar
Principal

Jagadamba College of Engineering & Technology, Arni Road, Kinhi, Yavatmal



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COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL



Approved by A.I.C.T.E. & Government of Maharashtra, Affiliated to S.G.B. Amravati University, Amravati.

Dr. Hemant M. Baradkar

M.Tech. (Electronics), Ph.D. (E & TC. Engg.)
Principal

Dr. Shital A. Watile

M.Sc., Ph.D.
Secretary

COMPUTER ENGINEERING DEPARTMENT

List of Professional Electives offered

SESSION 2016 - 2017 (ODD SEMESTER)		
Sr. No.	Subject code	Subject Name
1	7KE05	ARTIFICIAL INTELLIGENCE
2	7KE05	COMPUTER GRAPHICS
3	7KE05	DESIGN AND ANALYSIS OF ALGORITHMS
4	7KE05	HUMAN COMPUTER INTERACTION

SESSION 2016 - 2017 (EVEN SEMESTER)		
Sr. No.	Subject code	Subject Name
1	8KE04	NETWORK SECURITY
2	8KE04	MULTIMEDIA TECHNOLOGIES
3	8KE04	EXPERT SYSTEM DESIGN
4	8KE04	SOFT COMPUTING

SESSION 2017 - 2018 (ODD SEMESTER)		
Sr. No.	Subject code	Subject Name
1	7KE05	ARTIFICIAL INTELLIGENCE
2	7KE05	COMPUTER GRAPHICS
3	7KE05	DESIGN AND ANALYSIS OF ALGORITHMS
4	7KE05	HUMAN COMPUTER INTERACTION

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Principal
Jagadamba Collage of Engineering &
Technology Arni Road, Kinhi, Yavatmal

ARNI ROAD, YAVATMAL - 445001 (M.S.) INDIA

Tel. / Fax : 07232-291444, Mob. : 9011083260

Wbsite : www.jcoet.org, Email : principal@jcoet.org, principal.jcoet@gmail.com



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MECHANICAL ENGINEERING DEPARTMENT List of Professional Electives offered

SESSION 2016 - 2017 (ODD SEMESTER)		
Sr. No.	Subject code	Subject Name
1	7ME05	NON CONVENTIONAL ENERGY SYSTEM
2	7ME05	TOOL ENGINEERING
3	7ME05	ARTIFICIAL INTELLIGENCE & EXPERT SYSTEM
4	7ME05	MECHATRONICS

SESSION 2016 - 2017 (EVEN SEMESTER)		
Sr. No.	Subject code	Subject Name
1	8ME01	AUTOMOBILE ENGINEERING
2	8ME01	PRODUCTION PLANNING & CONTROL
3	8ME01	MANAGEMENT INFORMATION SYSTEMS
4	8ME01	ADVANCED MANUFACTURING SYSTEM
5	8ME02	REFRIGERATION & AIR CONDITIONING
6	8ME02	MACHINE TOOL DESIGN
7	8ME02	FINITE ELEMENT METHODS
8	8ME02	ROBOTICS

SESSION 2017 - 2018 (ODD SEMESTER)		
Sr. No.	Subject code	Subject Name
1	7ME05	NON CONVENTIONAL ENERGY SYSTEM
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CIVIL ENGINEERING DEPARTMENT List of Professional Electives offered

SESSION 2016 - 2017 (ODD SEMESTER)		
Sr. No.	Subject code	Subject Name
1	7CE05	Advanced Water Treatment
2	7CE05	Advanced Geotechnical Engineering
3	7CE05	Water Power Engineering
4	7CE05	Prestressed Concrete
5	7CE05	Artificial Neural Network & Fuzzy Logic
6	7CE05	Advanced Concrete Technology
7	7CE05	Environmental Pollution & Rural Sanitation
8	7CE05	Advanced Earthquake Engineering

SESSION 2016 - 2017 (EVEN SEMESTER)		
Sr. No.	Subject code	Subject Name
1	8CE04	Advanced Design of Steel Structures
2	8CE04	Advanced Waste Water & Industrial Waste Treatment
3	8CE04	Finite Element Method
4	8CE04	Dam Engineering
5	8CE04	Advanced Engineering Geology
6	8CE04	Matrix Computer Analysis of Structures
7	8CE04	Advanced Structural Analysis
8	8CE04	Rock Mechanics
9	8CE04	Advanced Design of RCC Structures

SESSION 2017 - 2018 (ODD SEMESTER)		
Sr. No.	Subject code	Subject Name
1	7CE05	Advanced Water Treatment
2	7CE05	Advanced Geotechnical Engineering
3	7CE05	Water Power Engineering
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6	7CE05	Advanced Concrete Technology
7	7CE05	Environmental Pollution & Rural Sanitation
8	7CE05	Advanced Earthquake Engineering

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SESSION 2020 - 2021 (ODD SEMESTER)		
Sr. No.	Subject code	Subject Name
1	7CE05	ADVANCED WATER TREATMENT
2	7CE05	ADVANCED GEOTECHNICAL ENGINEERING
3	7CE05	WATER POWER ENGINEERING
4	7CE05	PRESTRESSED CONCRETE
5	7CE05	ARTIFICIAL NEURAL NETWORK & FUZZY LOGIC
6	7CE05	ADVANCED CONCRETE TECHNOLOGY
7	7CE05	ENVIRONMENTAL POLLUTION & RURAL SANITATION
8	7CE05	ADVANCED EARTHQUAKE ENGINEERING

SESSION 2020 - 2021 (EVEN SEMESTER)		
Sr. No.	Subject code	Subject Name
1	8CE04	ADVANCED DESIGN OF STEEL STRUCTURES
2	8CE04	ADVANCED WASTE WATER & INDUSTRIAL WASTE TREATMENT
3	8CE04	FINITE ELEMENT METHOD
4	8CE04	DAM ENGINEERING
5	8CE04	ADVANCED ENGINEERING GEOLOGY
6	8CE04	MATRIX COMPUTER ANALYSIS OF STRUCTURES
7	8CE04	ADVANCED STRUCTURAL ANALYSIS
8	8CE04	ROCK MECHANICS
9	8CE04	ADVANCED DESIGN OF RCC STRUCTURES



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Sr. No.	Subject code	Subject Name
1	7EE05	PROCESS CONTROL SYSTEM
2	7EE05	WIND ELECTRICAL SYSTEM
3	7EE05	COMPUTER METHODS IN POWER SYSTEM ANALYSIS
4	7EE05	ARTIFICIAL INTELLIGENCE

SESSION 2016 - 2017 (EVEN SEMESTER)		
Sr. No.	Subject code	Subject Name
1	8EE04	ELECTRIC DRIVES & CONTROL
2	8EE04	POWER QUALITY
3	8EE04	POWER SYSTEM MANAGEMENT
4	8EE04	GENERALISED MACHINE THEORY

SESSION 2017 - 2018 (ODD SEMESTER)		
Sr. No.	Subject code	Subject Name
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2	7EE05	WIND ELECTRICAL SYSTEM
3	7EE05	COMPUTER METHODS IN POWER SYSTEM ANALYSIS
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SESSION 2016 - 2017 (ODD SEMESTER)		
Sr. No.	Subject code	Subject Name
1	7XT04 (1)	VLSI DESIGN
2	7XT04 (2)	COMPUTER ORGANIZATION
3	7XT04 (3)	ARTIFICIAL INTELLIGENCE
4	7XT04 (4)	SATELLITE AND OPTICAL FIBER COMMUNICATION
5	7XT04 (5)	AUDIO & VIDEO ENGINEERING

SESSION 2016 - 2017 (EVEN SEMESTER)		
Sr. No.	Subject code	Subject Name
1	8XT04 (1)	BIOMEDICAL ENGINEERING
2	8XT04 (2)	DIGITAL IMAGE PROCESSING
3	8XT04 (3)	ARM SYSTEM DEVELOPMENT AND DESIGN
4	8XT04 (4)	EMBEDDED AND REAL TIME SYSTEM
5	8XT04 (5)	SMART SENSORS

SESSION 2017 - 2018 (ODD SEMESTER)		
Sr. No.	Subject code	Subject Name
1	7XT04 (1)	VLSI DESIGN
2	7XT04 (2)	COMPUTER ORGANIZATION
3	7XT04 (3)	ARTIFICIAL INTELLIGENCE
4	7XT04 (4)	SATELLITE AND OPTICAL FIBER COMMUNICATION
5	7XT04 (5)	AUDIO & VIDEO ENGINEERING

SESSION 2017 - 2018 (EVEN SEMESTER)		
Sr. No.	Subject code	Subject Name
1	8XT04 (1)	BIOMEDICAL ENGINEERING
2	8XT04 (2)	DIGITAL IMAGE PROCESSING
3	8XT04 (3)	ARM SYSTEM DEVELOPMENT AND DESIGN
4	8XT04 (4)	EMBEDDED AND REAL TIME SYSTEM
5	8XT04 (5)	SMART SENSORS




Principal

Jagadamba Collage of Engineering &
Technology Arni Road, Kinhi, Yavatmal

ARNI ROAD, YAVATMAL - 445001 (M.S.) INDIA

Tel. / Fax : 07232-291444, Mob. : 9011083260

Wbsite : www.jcoet.org, Email : principal@jcoet.org, principal.jcoet@gmail.com



JAGADAMBHA BAHUUDDESHIYA GRAMIN VIKAS SANSTH'S

JAGADAMBHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL



Approved by A.I.C.T.E. & Government of Maharashtra, Affiliated to S.G.B. Amravati University, Amravati.

Dr. Hemant M. Baradkar

M.Tech. (Electronics), Ph.D. (E & TC. Engg.)
Principal

Dr. Shital A. Watile

M.Sc., Ph.D.
Secretary

ELECTRONICS & TELECOMMUNICATION ENGINEERING DEPARTMENT

List of Professional Electives offered

SESSION 2018 - 2019 (ODD SEMESTER)		
Sr. No.	Subject code	Subject Name
1	7XT04 (1)	VLSI DESIGN
2	7XT04 (2)	COMPUTER ORGANIZATION
3	7XT04 (3)	ARTIFICIAL INTELLIGENCE
4	7XT04 (4)	SATELLITE AND OPTICAL FIBER COMMUNICATION
5	7XT04 (5)	AUDIO & VIDEO ENGINEERING
SESSION 2018 - 2019 (EVEN SEMESTER)		
Sr. No.	Subject code	Subject Name
1	8XT04 (1)	BIOMEDICAL ENGINEERING
2	8XT04 (2)	DIGITAL IMAGE PROCESSING
3	8XT04 (3)	ARM SYSTEM DEVELOPMENT AND DESIGN
4	8XT04 (4)	EMBEDDED AND REAL TIME SYSTEM
5	8XT04 (5)	SMART SENSORS
SESSION 2019 - 2020 (ODD SEMESTER)		
Sr. No.	Subject code	Subject Name
1	7ET5 (1)	COMPUTER ORGANIZATION
2	7ET5 (2)	PLC & AUTOMATION
3	7ET5 (3)	SMART SENSOR
4	7ET5 (4)	FUZZY LOGIC & ARTIFICIAL NEURAL NETWORK
5	7ET5 (5)	SPEECH PROCESSING
6	7ET5 (6)	RF MODELLING & ANTENNA
SESSION 2019 - 2020 (EVEN SEMESTER)		
Sr. No.	Subject code	Subject Name
1	8ET4 (1)	EMBEDDED SYSTEMS & RTOS
2	8ET4 (2)	AUTOMOTIVE ELECTRONICS
3	8ET4 (3)	WIRELESS SENSOR NETWORK
4	8ET4 (4)	BIOMEDICAL ENGINEERING
5	8ET4 (5)	DATA COMPRESSION & ENCRYPTION
6	8ET4 (6)	ULTRA WIDE BAND COMMUNICATION



(Signature)
Principal

Jagadambha College of Engineering & Technology
Arni Road, Kinhi, Yavatmal.

ARNI ROAD, YAVATMAL - 445001 (M.S.) INDIA

Tel. / Fax : 07232-291444, Mob. : 9011083260

Website : www.jcoet.org, Email : principal@jcoet.org, principal.jcoet@gmail.com



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COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL



Approved by A.I.C.T.E. & Government of Maharashtra, Affiliated to S.G.B. Amravati University, Amravati.

Dr. Hemant M. Baradkar

M.Tech. (Electronics), Ph.D. (E & TC. Engg.)
Principal

Dr. Shital A. Watile

M.Sc., Ph.D.
Secretary

ELECTRONICS & TELECOMMUNICATION ENGINEERING DEPARTMENT

List of Professional Electives offered

SESSION 2020 - 2021 (ODD SEMESTER)		
Sr. No.	Subject code	Subject Name
1	7ET5 (1)	COMPUTER ORGANIZATION
2	7ET5 (2)	PLC & AUTOMATION
3	7ET5 (3)	SMART SENSOR
4	7ET5 (4)	FUZZY LOGIC & ARTIFICIAL NEURAL NETWORK
5	7ET5 (5)	SPEECH PROCESSING
6	7ET5 (6)	RF MODELLING & ANTENNA

SESSION 2020 - 2021 (EVEN SEMESTER)		
Sr. No.	Subject code	Subject Name
1	8ET4 (1)	EMBEDDED SYSTEMS & RTOS
2	8ET4 (2)	AUTOMOTIVE ELECTRONICS
3	8ET4 (3)	WIRELESS SENSOR NETWORK
4	8ET4 (4)	BIOMEDICAL ENGINEERING
5	8ET4 (5)	DATA COMPRESSION & ENCRYPTION
6	8ET4 (6)	ULTRA WIDE BAND COMMUNICATION



Principal
Jagadamba College of Engineering &
Technology Arni Road, Kinhi, Yavatmal

ARNI ROAD, YAVATMAL - 445001 (M.S.) INDIA

Tel. / Fax : 07232-291444, Mob. : 9011083260

Website : www.jcoet.org, Email : principal@jcoet.org, principal.jcoet@gmail.com

FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING
BRANCH - COMPUTER ENGINEERING - SEMESTER PATTERN (CREDIT GRADE SYSTEM)
SEMESTER - SEVENTH

Appendix - F

Sr. No.	Subject Code	Subject	TEACHING SCHEME					EXAMINATION SCHEME								
			HOURS / WEEK				CREDITS	THEORY					PRACTICAL			
			Lecture	Tutorial	P/D	Total HOURS/WEEK		DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESSMENT	TOTAL	MIN. PASSING MARKS	MAX. MARKS		TOTAL	MIN. PASSING MARKS
EXTERNAL	INTERNAL															
THEORY																
01	7KE01	Signals & Systems	3	1	-	4	4	3	80	20	100	40	-	-	-	-
02	7KE02	Computer Network	4	-	-	4	4	3	80	20	100	40	-	-	-	-
03	7KE03	Microprocessors & Interfacing	3	1	-	4	4	3	80	20	100	40	-	-	-	-
04	7KE04	Mobile Computing	4	-	-	4	4	3	80	20	100	40	-	-	-	-
05	7KE05	Professional Elective I*	4	-	-	4	4	3	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
06	7KE06	Computer Network- Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
07	7KE07	Microprocessors & Interfacing Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
08	7KE08	Mobile Computing -Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
09	7KE09	Project & Seminar	-	-	2	2	4	-	-	-	-	-	-	50	50	-
TOTAL			18	2	8	28	27	500							200	
														TOTAL	700	

Professional Elective I* (i) Artificial Intelligence (ii) Computer Graphics (iii) Design & Analysis of Algorithms (iv) Human Computer Interaction

Semester :EIGHTH

Sr. No.	Subject Code	Subject	TEACHING SCHEME					EXAMINATION SCHEME								
			HOURS / WEEK				CREDITS	THEORY					PRACTICAL			
			Lecture	Tutorial	P/D	Total HOURS/WEEK		DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESSMENT	TOTAL	MIN. PASSING MARKS	MAX. MARKS		TOTAL	MIN. PASSING MARKS
EXTERNAL	INTERNAL															
THEORY																
01	8KE01	Digital Signal Processing	3	-	-	3	3	3	80	20	100	40	-	-	-	-
02	8KE02	Embedded Systems	3	-	-	3	3	3	80	20	100	40	-	-	-	-
03	8KE03	Software Engineering	3	-	-	3	3	3	80	20	100	40	-	-	-	-
04	8KE04	Professional Elective II*	4	-	-	4	4	3	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
05	8KE05	Digital Signal Processing Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
06	8KE06	Embedded Systems Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
07	8KE07	Project & Seminar	-	-	6	6	12	-	-	-	-	-	75	75	150	75
TOTAL			13	-	10	23	27	400							250	
														TOTAL	650	

Professional Elective II* (i) Network Security (ii) Multimedia Technologies (iii) Expert System Design (iv) Soft Computing

Dr. Hemant M. Baradkar
Principal
Jagadamba College of Engineering & Technology, Arni Road, Kinhi, Yavatmal



FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING
BRANCH - MECHANICAL ENGINEERING - SEMESTER PATTERN (CREDIT GRADE SYSTEM)

SEMESTER - SEVENTH

Appendix - B

Sl. No.	Subject Code	Subject	TEACHING SCHEME				EXAMINATION SCHEME									
			HOURS / WEEK			Total HOURS/WEEK	CREDITS	THEORY					PRACTICAL			
			Lectures	Tutorial	PD			Duration of Paper (Hrs.)	Max Marks Theory Paper	Max Marks College Assessment	Total	Min. Passing Marks	External	Internal	Total	Min. Passing Marks
THEORY																
01	7ME01	Machine Design & Drawing-II	3	-	-	3	3	4	80	20	100	40	-	-	-	-
02	7ME02	Energy Conversion-II	3	1	-	4	4	3	80	20	100	40	-	-	-	-
03	7ME03	Industrial Management and Costing	3	1	-	4	4	3	80	20	100	40	-	-	-	-
04	7ME04	Automation Engineering	3	1	-	4	4	3	80	20	100	40	-	-	-	-
05	7ME05	Professional Elective-I	3	1	-	4	4	3	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
06	7ME06	Project & Seminar	-	-	2	2	4	-	-	-	-	-	-	50	50	25
07	7ME07	Machine Design & Drawing-II-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
08	7ME08	Energy Conversion-II-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
09	7ME09	Automation Engineering-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
10	7ME10	Professional Elective-I - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
Total			15	4	10	29	27	500					250			
GRAND TOTAL : 750																

Professional Elective-I (1) Non Conventional Energy System (2) Tool Engineering (3) Artificial Intelligence & Expert Systems (4) Mechanisms

SEMESTER : EIGHTH																
Sl. No.	Subject Code	Subject	TEACHING SCHEME				EXAMINATION SCHEME									
			HOURS / WEEK			Total HOURS/WEEK	CREDITS	THEORY					PRACTICAL			
			Lectures	Tutorial	PD			Duration of Paper (Hrs.)	Max Marks Theory Paper	Max Marks College Assessment	Total	Min. Passing Marks	External	Internal	Total	Min. Passing Marks
THEORY																
01	8ME01	Elective-II	3	-	-	3	3	3	80	20	100	40	-	-	-	-
02	8ME02	Elective-III	3	-	-	3	3	3	80	20	100	40	-	-	-	-
03	8ME03	I.C. Engines	3	-	-	3	3	3	80	20	100	40	-	-	-	-
04	8ME04	Operations Research Techniques	3	-	-	3	3	3	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
05	8ME05	Project & Seminar	-	-	6	6	12	-	-	-	-	-	75	75	150	75
06	8ME06	Professional Elective-III-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
07	8ME07	I.C. Engines-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
08	8ME08	Operations Research Techniques-Lab	-	-	2	2	2	-	-	-	-	-	25	25	50	25
Total			12	-	12	24	27	400					300			
GRAND TOTAL : 700																

Professional Elective-II (1) Assembly Engineering (2) Production Planning & Control (3) Management Information Systems (4) Advanced Manufacturing Systems
 Professional Elective-III (1) Refrigeration & Air Conditioning (2) Machine Tool Design (3) Finite Element Methods (4) Robotics

HMB
Dr. Homant M. Barve
 Principal

Jagadamba College of Engineering
 Jagadamba, Andhra Pradesh, India



**FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING
BRANCH- CIVIL ENGINEERING -SEMESTER PATTERN(CREDIT GRADE SYSTEM)**

SEMESTER - SEVENTH

Appendix- A

Sr. No.	Subject Code	Subject	TEACHING SCHEME					EXAMINATION SCHEME								
			HOURS / WEEK			CREDITS	THEORY				PRACTICAL					
			Lecture	Tutorial	P/D		Duration of Paper (Hr.)	Max. Marks Theory Paper	Max. Marks College Assessment	Total	Min. Passing Marks	Max. Marks		Total	Min. Passing Marks	
THEORY													EXTERNAL	INTERNAL		
01	7CE01	Theory of Structures-II	3	1	-	4	4	3	80	20	100	40	-	-	-	-
02	7CE02	Geotechnical Engineering-II	3	1	-	4	4	3	80	20	100	40	-	-	-	-
03	7CE03	Structural Design-II	4	-	-	4	4	4	80	20	100	40	-	-	-	-
04	7CE04	Environmental Engineering-I	4	-	-	4	4	3	80	20	100	40	-	-	-	-
05	7CE05	Professional Elective-I	4	-	-	4	4	3	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
06	7CE06	Theory of Structures-II - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
07	7CE07	Geotechnical Engineering-II - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
08	7CE08	Structural Design-II - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
09	7CE09	Project & Seminar	-	-	2	2	4	-	-	-	-	-	-	50	50	25
Total			18	2	8	28	27	500					200			

GRAND TOTAL : 700

Professional Elective-I (i) Advanced Water Treatment (ii) Advanced Geotechnical Engineering (iii) Water Power Engineering (iv) Prestressed Concrete (v) Artificial Neural Network & Fuzzy Logic (vi) Advanced Concrete Technology (vii) Environmental Pollution & Rural Sanitation (viii) Advanced Earthquake Engineering

SEMESTER : EIGHTH																
Sr. No.	Subject Code	Subject	TEACHING SCHEME					EXAMINATION SCHEME								
			HOURS / WEEK			CREDITS	THEORY				PRACTICAL					
			Lecture	Tutorial	P/D		Duration of Paper (Hr.)	Max. Marks Theory Paper	Max. Marks College Assessment	Total	Min. Passing Marks	Max. Marks		Total	Min. Passing Marks	
THEORY													EXTERNAL	INTERNAL		
01	8CE01	Water Resources Engineering-II	3	-	-	3	3	3	80	20	100	40	-	-	-	-
02	8CE02	Environmental Engineering-II	3	-	-	3	3	3	80	20	100	40	-	-	-	-
03	8CE03	Project Planning & Management	3	-	-	3	3	3	80	20	100	40	-	-	-	-
04	8CE04	Professional Elective-II	4	-	-	4	4	3	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
05	8CE05	Water Resources Engineering-II-Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
06	8CE06	Environmental Engineering-II - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
07	8CE07	Project & Seminar	-	-	6	6	12	-	-	-	-	-	75	75	150	75
Total			13		10	23	27	400					250			

GRAND TOTAL : 650

Professional Elective-II (i) Advanced Design of Steel Structures (ii) Advanced Waste Water and Industrial Waste Treatment (iii) Finite Element Method (iv) Dam Engineering (v) Advanced Engineering Geology (vi) Matrix Computer Analysis of Structures (vii) Advanced Structural Analysis (viii) Rock Mechanics (ix) Advanced Design of RCC Structures
* PAPER 4 HOURS DURATION.

Dr. Hemant M. Dhanekar
Principal

Jagadamba College of Engineering & Technology,
Arni Road, Kintal, Yavatmal



FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING
BRANCH : ELECTRICAL ENGINEERING - SEMESTER PATTERN (CREDIT GRADE SYSTEM)

SEMESTER - SEVENTH

Appendix - F

Sr. No.	Subject Code	Subject	TEACHING SCHEME				EXAMINATION SCHEME									
			HOURS / WEEK			CREDITS	THEORY					PRACTICAL				
			Lecture	Tutorial	P/D		Total HOURS/WEEK	DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER	MAX. MARKS COLLEGE ASSESSMENT	TOTAL	MIN. PASSING MARKS	MAX. MARKS		MIN. PASSING MARKS	
EXTERNAL	INTERNAL	TOTAL														
THEORY																
01	7EE01	Control System II	4	-	-	4	4	3	80	20	100	40	-	-	-	-
02	7EE02	Power System Operation & Control	4	-	-	4	4	3	80	20	100	40	-	-	-	-
03	7EE03	Electrical Power - II	4	-	-	4	4	3	80	20	100	40	-	-	-	-
04	7EE04	Switchgear & Protection	4	-	-	4	4	3	80	20	100	40	-	-	-	-
05	7EE05	Professional Elective - I *	4	-	-	4	4	3	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
06	7EE06	Project & Seminar	-	-	2	2	4	-	-	-	-	-	0	50	50	25
07	7EE07	Electrical Power - II -Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
08	7EE08	Switchgear & Protection -Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
TOTAL			20	-	6	26	26			500					150	
TOTAL														650		

* Professional Elective - I 1) Process Control System 2) Wind Electrical Systems 3) Computer Methods in Power System Analysis 4) Artificial Intelligence

Semester : Eighth																	
Sr. No.	Subject Code	Subject	TEACHING SCHEME				EXAMINATION SCHEME										
			HOURS / WEEK			CREDITS	THEORY					PRACTICAL					
Lecture	Tutorial	P/D	Total HOURS/WEEK	DURATION OF PAPER (Hr.)	MAX. MARKS THEORY PAPER		MAX. MARKS COLLEGE ASSESSMENT	TOTAL	MIN. PASSING MARKS	MAX. MARKS		MIN. PASSING MARKS					
EXTERNAL	INTERNAL	TOTAL															
THEORY																	
01	8EE01	Power System Stability	3	-	-	3	3	3	80	20	100	40	-	-	-	-	
02	8EE02	High Voltage Engineering	4	-	-	4	4	3	80	20	100	40	-	-	-	-	
03	8EE03	Digital Signal Processing	4	-	-	4	4	3	80	20	100	40	-	-	-	-	
04	8EE04	Professional Elective - II**	3	-	-	3	3	3	80	20	100	40	-	-	-	-	
PRACTICALS / DRAWING / DESIGN																	
05	8EE05	Project & Seminar	-	-	6	6	12	-	-	-	-	-	75	75	150	25	
06	8EE06	Digital Signal Processing -Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25	
TOTAL			14	-	8	22	27			400					200		
TOTAL																	600

** Professional Elective - II 1) Electric Drives & Control 2) Power Quality 3) Power System Management 4) Generalised Machine Theory



Semester : Seventh																	
Sr. No.	Subject Code	Subject	TEACHING SCHEME					EXAMINATION SCHEME									
			HOURS / WEEK			Total HOURS/WEEK	CREDITS	THEORY					PRACTICAL				
			Lecture	Tutorial	P/D			Duration Of Paper (Hr.)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks		Total	Min. Passing Marks	
		Int.		Ext.													
THEORY																	
01	7ET1	VLSI Design	4	1	--	5	5	3	80	20	100	40	--	--	--	--	
02	7ET2	Digital Image Processing	4	--	--	4	4	3	80	20	100	40	--	--	--	--	
03	7ET3	Satellite & Optical Fiber Communication	4	--	--	4	4	3	80	20	100	40	--	--	--	--	
04	7ET4	Industrial Management & Quality Control	4	--	--	4	4	3	80	20	100	40	--	--	--	--	
05	7ET5	Professional Elective-I	4	--	--	4	4	3	80	20	100	40	--	--	--	--	
PRACTICALS / DRAWING / DESIGN																	
06	7ETp6	VLSI Design Lab	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
07	7ETp7	Skill Development Lab-V (Signal & Image Processing)	2	--	2	4	2	--	--	--	--	--	50	50	100	25(Int.) 25(Ext)	
08	7ETp8	Project	--	--	2	2	--	--	--	--	--	--	--	--	--	--	
09	7ETp9	Seminar	--	--	2	2	2	--	--	--	--	--	50	--	50	25	
Total			22	1	8	31	26	--	--	--	500	--	--	--	200	--	
															Total	700	

Professional Elective-I:

1. Computer Organization
2. PLC & Automation
3. Smart Sensor
4. Fuzzy Logic & Artificial Neural Network
5. Speech Processing
6. RF Modeling & Antenna



Semester : Eight

Sr. No.	Subject Code	Subject	TEACHING SCHEME					EXAMINATION SCHEME									
			HOURS / WEEK			Total HOURS/WEEK	CREDITS	THEORY					PRACTICAL				
			Lecture	Tutorial	P/D			Duration Of Paper (Hr.)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks		Total	Min. Passing Marks	
		Int.	Ext.														
THEORY																	
01	8ET1	UHF & Microwaves	4	--	--	4	4	3	80	20	100	40	--	--	--	--	
02	8ET2	Wireless Communication	4	--	--	4	4	3	80	20	100	40	--	--	--	--	
03	8ET3	Data Communication Network	4	--	--	4	4	3	80	20	100	40	--	--	--	--	
04	8ET4	Professional Elective-II	4	--	--	4	4	3	80	20	100	40	--	--	--	--	
PRACTICALS / DRAWING / DESIGN																	
05	8ETp5	UHF & Microwave Lab	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
06	8ETp6	Skill Development Lab-VI (Networking)	2	--	2	4	2	--	--	--	--	--	50	50	100	25(Int.) 25(Ext)	
07	8ETp7	Project	--	--	4	4	6	--	--	--	--	--	75	75	150	75	
Total			18	--	8	26	25	--	--	--	400	--	--	--	300	--	
															Total	700	

Professional Elective-II:

1. Embedded System & RTOS
4. Biomedical Engineering

2. Automotive Electronics
5. Data Compression & Encryption

3. Wireless Sensor Network
6. Ultra Wide Band Communication

Dr. Hemant M. Baradkar
Principal
Jagadamba College of Engineering
Technology, Ami Road, Kinhi, Yavatmal



Four Year Degree Course in Bachelor of Engineering
Branch : Computer Engineering- Semester Pattern (Credit Grade System)
SEMESTER : FIFTH

APPENDIX - E

Sl. No.	Subject Code	Subject	TEACHING SCHEME				EXAMINATION SCHEME									
			HOURS / WEEK			CREDITS	THEORY				PRACTICAL					
			Lecture	Tutorial	PO		Total Hours/Week	Duration of Paper (Hr)	Max Marks Theory Paper	Max Marks College Assessment	Total	Min Passing Marks	Max Marks		Total	Min. Passing Marks
										External	Internal					
THEORY																
01	5KE01	Data Communication	4	-	-	4	4	3	80	20	100	40	-	-	-	-
02	5KE02	File Structures & Data Processing	4	1	-	5	5	3	80	20	100	40	-	-	-	-
03	5KE03	System Software	4	-	-	4	4	3	80	20	100	40	-	-	-	-
04	5KE04	Switching Theory & Logic Design	4	1	-	5	5	3	80	20	100	40	-	-	-	-
05	5FEKE05	Free Elective I*	3	-	-	3	3	3	80	20	100	40	-	-	-	-
06	5KE06	Communication Skills	2	-	-	2	2	2	40	10	50	20	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
07	5KE07	System Software Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
08	5KE08	Switching Theory & Logic Design Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
09	5KE09	Communication Skills Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
TOTAL			21	2	6	29	26	550				150				
													TOTAL	700		

Free Elective I* (i) Web Technologies (ii) Object Oriented Programming

Semester : SIXTH																
Sl. No.	Subject Code	Subject	TEACHING SCHEME				EXAMINATION SCHEME									
			HOURS / WEEK			CREDITS	THEORY				PRACTICAL					
			Lecture	Tutorial	PO		Total Hours/Week	Duration of Paper (Hr)	Max Marks Theory Paper	Max Marks College Assessment	Total	Min Passing Marks	Max Marks		Total	Min. Passing Marks
												External	Internal			
THEORY																
01	6KE01	Operating Systems	4	1	-	5	5	3	80	20	100	40	-	-	-	-
02	6KE02	Database Systems	4	-	-	4	4	3	80	20	100	40	-	-	-	-
03	6KE03	Computing Resources Management	4	-	-	4	4	3	80	20	100	40	-	-	-	-
04	6KE04	Computer Architecture	3	1	-	4	4	3	80	20	100	40	-	-	-	-
05	6FEKE05	Free Elective II*	3	-	-	3	3	3	80	20	100	40	-	-	-	-
06	6KE06	Professional Ethics	2	-	-	2	2	2	40	10	50	20	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
07	6KE07	Operating Systems Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
08	6KE08	Database Systems Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
09	6KE09	Computer Lab-II (Hardware Lab)	1	-	2	3	2	-	-	-	-	-	25	25	50	25
TOTAL			21	2	6	29	26	550				150				
													TOTAL	700		

Free Elective II* (i) Java Programming (ii) Expert Systems

Note : Students will have to opt the free electives offered from other courses of their College / Institution / University Department

TOTAL 700
Dr. Hemant M. Baradkar
 Principal
 Yashwantrao Chavan College of Engineering
 Kalyan, Maharashtra



**FOUR YEAR DEGREE COURSE IN MECHANICAL ENGINEERING
SEMESTER PATTERN (CREDIT GRADE SYSTEM)**

SEMESTER - FIFTH

Appendix - B

Sl. No.	Subject Code	Subject	TEACHING SCHEME				EXAMINATION SCHEME										
			Lecture	Tutorial	P.O.	T.O.W HOURS/WEEK	CREDITS	THEORY				PRACTICAL					
								DURATION OF PAPER (Hr.)	MAX MARKS THEORY PAPER	MAX MARKS COLLEGE ASSESSMENT	TOTAL	MIN PASSING MARKS	MAX MARKS		TOTAL	MIN PASSING MARKS	
EXTERNAL	INTERNAL	TOTAL	MIN PASSING MARKS														
THEORY																	
01	SME01	Production Technology	4	-	-	4	4	3	80	20	100	40	-	-	-	-	
02	SME02	Heat Transfer	4	1	-	5	5	3	80	20	100	40	-	-	-	-	
03	SME03	Measurement Systems	4	-	-	4	4	3	80	20	100	40	-	-	-	-	
04	SME04	Theory of Machines-I	3	1	-	4	4	3	80	20	100	40	-	-	-	-	
05	MEME05	Free Elective-I	3	-	-	3	3	3	80	20	100	40	-	-	-	-	
PRACTICALS / DRAWING / DESIGN																	
06	SME06	Production Technology Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25	
07	SME07	Heat Transfer Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25	
08	SME08	Measurement Systems Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25	
09	SME09	Theory of Machines-I Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25	
10	SME10	Computer Software Applications-I Lab	-	-	2	2	2	-	-	-	-	-	25	25	50	25	
Total							18	2	10	30	28						
													GRAND TOTAL : 725				

Free Elective-I : 1) Manufacturing Techniques 2) Ergonomics 3) Production Management 4) Project Management

SEMESTER - SIXTH

Sl. No.	Subject Code	Subject	TEACHING SCHEME				EXAMINATION SCHEME										
			Lecture	Tutorial	P.O.	T.O.W HOURS/WEEK	CREDITS	THEORY				PRACTICAL					
								DURATION OF PAPER (Hr.)	MAX MARKS THEORY PAPER	MAX MARKS COLLEGE ASSESSMENT	TOTAL	MIN PASSING MARKS	MAX MARKS		TOTAL	MIN PASSING MARKS	
EXTERNAL	INTERNAL	TOTAL	MIN PASSING MARKS														
THEORY																	
01	6ME01	Fluid Power-II	4	1	-	5	5	3	80	20	100	40	-	-	-	-	
02	6ME02	Computer Software Applications	3	-	-	3	3	3	80	20	100	40	-	-	-	-	
03	6ME03	Control System Engineering	4	-	-	4	4	3	80	20	100	40	-	-	-	-	
04	6ME04	Theory of Machines-II	4	1	-	5	5	3	80	20	100	40	-	-	-	-	
05	6FEME05	Free Elective-II	3	-	-	3	3	3	80	20	100	40	-	-	-	-	
06	6ME06	Communication Skills	2	-	-	2	2	2	40	10	50	20	-	-	-	-	
PRACTICALS / DRAWING / DESIGN																	
07	6ME07	Fluid Power-II Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25	
08	6ME08	Computer Software Applications-II Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25	
09	6ME09	Theory of Machines-II Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25	
10	6ME10	Communication Skills Lab	-	-	2	2	2	-	-	-	-	-	25	25	50	25	
Total							28	2	9	30	28						
													GRAND TOTAL : 750				

Free Elective-II : 1) Automobile Engineering 2) Non-conventional Energy System 3) Energy Management

Note: Students will have to opt the free electives offered from other courses of their College / Institution / University Department.

Jr. Hemant M. Bhandari
 Principal
 Jagadamba College of Engineering & Technology, Amri Road, Kinki, Yavatmal



FOUR YEAR DEGREE COURSE IN CIVIL ENGINEERING
SEMESTER PATTERN (CREDIT GRADE SYSTEM)
SEMESTER - FIFTH

Appendix - A

Sl. No.	Subject Code	Subject	TEACHING SCHEME					EXAMINATION SCHEME									
			HOURS / WEEK				CREDITS	THEORY				PRACTICAL					
			Lecture	Tutorial	P.T.D	Total Hours/Week		Duration of Paper (Hrs.)	Max. Marks Theory Paper	Max. Marks College Assessment	Total	Min. Passing Marks	Max. Marks		Total	Min. Passing Marks	
										External	Internal						
THEORY																	
01	5CE01	Reinforced Cement Concrete-II	3	1	-	4	4	4	4	80	20	100	40	-	-	-	-
02	5CE02	Fluid Mechanics-II	3	1	-	4	4	4	3	80	20	100	40	-	-	-	-
03	5CE03	Building Planning & CAD	2	-	-	2	2	2	4	80	20	100	40	-	-	-	-
04	5CE04	Surveying-II	4	-	-	4	4	4	3	80	20	100	40	-	-	-	-
05	5CE05	Free Elective-I	3	-	-	3	3	3	3	80	20	100	40	-	-	-	-
06	5CE06	Communication Skills	2	-	-	2	2	2	2	40	10	50	20	-	-	-	-
PRACTICALS / DRAWING / DESIGN																	
07	5CE07	Fluid Mechanics-II - Lab	-	-	2	2	1	1	-	-	-	-	-	25	25	50	25
08	5CE08	Building Planning & CAD-lab	-	-	4	4	2	2	-	-	-	-	-	25	25	50	25
09	5CE09	Surveying-II - Lab	-	-	2	2	1	1	-	-	-	-	-	25	25	50	25
10	5CE10	Communication Skills Lab	-	-	2	2	1	1	-	-	-	-	-	25	25	50	25
Total			17	2	10	29	24										
GRAND TOTAL: 750																	
Free Elective I: (i) Introduction To Earthquake Engineering (ii) Basics of Building Construction (iii) Watershed Management																	
SEMESTER - SIXTH																	
THEORY																	
01	6CE01	Numerical Methods & Computer Programming	4	-	-	4	4	4	3	80	20	100	40	-	-	-	-
02	6CE02	Structural Design-I	4	-	-	4	4	4	4	80	20	100	40	-	-	-	-
03	6CE03	Water Resources Engineering-I	3	-	-	3	3	3	3	80	20	100	40	-	-	-	-
04	6CE04	Transportation Engineering-II	3	1	-	4	4	4	3	80	20	100	40	-	-	-	-
05	6CE05	Free Elective-II	3	-	-	3	3	3	3	80	20	100	40	-	-	-	-
06	6CE06	Estimating & Costing	3	1	-	4	4	4	4	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																	
07	6CE07	Numerical Methods & Computer Programming - Lab	-	-	2	2	1	1	-	-	-	-	-	25	25	50	25
08	6CE08	Structural Design-I - Lab	-	-	2	2	1	1	-	-	-	-	-	25	25	50	25
09	6CE09	Estimating & Costing-Lab	-	-	2	2	1	1	-	-	-	-	-	25	25	50	25
10	6CE10	Minor Project - Lab	-	-	2	2	1	1	-	-	-	-	-	25	25	50	25
Total			18	2	10	30	26										
GRAND TOTAL: 900																	

Free Elective II: (i) Disaster Management (ii) Environmental Management

Note: Students will have to opt the Free Electives offered from other courses of their College / Institution / University Department.

Handwritten Signature
Jr. Hemant M. Saradka
 Principal
 Jagadamba College of Engineering
 Technology, Arni Road, Kinhi, Yavatmal



FOUR YEAR DEGREE COURSE IN BACHELOR OF ENGINEERING
BRANCH : ELECTRICAL ENGINEERING - SEMESTER PATTERN (CREDIT GRADE SYSTEM)
SEMESTER - FIFTH

Appendix - F

Sl. No	Subject Code	Subject	TEACHING SCHEME					EXAMINATION SCHEME								
			HOURS / WEEK					THEORY				PRACTICAL				
			Lecture	Tutorial	PD	Total HOURS/WEEK	CREDITS	DURATION OF PAPER (Hr)	MAX MARKS THEORY PAPER	MAX MARKS COLLEGE ASSESSMENT	TOTAL	MIN. PASSING MARKS	MAX MARKS		TOTAL	MIN. PASSING MARKS
THEORY																
01	SEE01	Control Systems - I	4	-	-	4	4	3	80	20	100	40	-	-	-	-
02	SEE02	Microprocessor & Microcontroller	4	-	-	4	4	3	80	20	100	40	-	-	-	-
03	SEE03	Electrical Machines - II	4	-	-	4	4	3	80	20	100	40	-	-	-	-
04	SEE04	Signals & Systems	4	-	-	4	4	3	80	20	100	40	-	-	-	-
05	SFEE05	Free Elective-I	3	-	-	3	3	3	80	20	100	40	-	-	-	-
06	SEE06	Communication Skills	2	-	-	2	2	2	40	10	50	20	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
07	SEE07	Control Systems - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
08	SEE08	Microprocessor & Microcontroller - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
09	SEE09	Electrical Machines - II - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
10	SEE10	Communication Skills - Lab	-	-	2	2	1	-	-	-	-	-	20	25	50	25
TOTAL			21	-	8	29	25					550			200	
TOTAL 750																

Free Elective - I 1) Energy Audit & Management 2) Electrical Drives

Semester : Sixth																
Sl. No	Subject Code	Subject	TEACHING SCHEME					EXAMINATION SCHEME								
			HOURS / WEEK					THEORY				PRACTICAL				
			Lecture	Tutorial	PD	Total HOURS/WEEK	CREDITS	DURATION OF PAPER (Hr)	MAX MARKS THEORY PAPER	MAX MARKS COLLEGE ASSESSMENT	TOTAL	MIN. PASSING MARKS	MAX MARKS		TOTAL	MIN. PASSING MARKS
THEORY																
01	SEE01	Electrical power - I	4	-	-	4	4	3	80	20	100	40	-	-	-	-
02	SEE02	Optimisation Techniques	4	-	-	4	4	3	80	20	100	40	-	-	-	-
03	SEE03	Power Electronics	4	-	-	4	4	3	80	20	100	40	-	-	-	-
04	SEE04	Computer Aided Machine Design	4	-	-	4	4	3	80	20	100	40	-	-	-	-
05	SFEE05	Free Elective-II	3	-	-	3	3	3	80	20	100	40	-	-	-	-
06	SEE06	Electrical Energy Utilisation	4	-	-	4	4	3	80	20	100	40	-	-	-	-
PRACTICALS / DRAWING / DESIGN																
07	SEE07	Power Electronics - I - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
08	SEE08	Computer Aided Machine Design - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
09	SEE09	Electrical Energy Utilisation - Lab	-	-	2	2	1	-	-	-	-	-	25	25	50	25
TOTAL			23	-	6	29	26					600			150	
TOTAL 750																

Free Elective - II 1) Electrical Estimating & Costing 2) Power Supply Systems

Note : Students will have to opt the free electives offered from other courses of their College / Institution / University Department


Semester : Fifth

Sr. No.	Subject Code	Subject	TEACHING SCHEME					EXAMINATION SCHEME									
			HOURS / WEEK			Total HOURS/WEEK	CREDITS	THEORY						PRACTICAL			
			Lecture	Tutorial	P/D			Duration Of Paper (Hr.)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks		Total	Min. Passing Marks	
													Int.	Ext.			
THEORY																	
01	SET1	Analog Electronics-II	4	1	--	5	5	3	80	20	100	40	--	--	--	--	
02	SET2	Power Electronics & Drives	4	--	--	4	4	3	80	20	100	40	--	--	--	--	
03	SET3	Micro Processor & Micro Controller	4	1	--	5	5	3	80	20	100	40	--	--	--	--	
04	SET4	Communication Engg.-II	4	--	--	4	4	3	80	20	100	40	--	--	--	--	
05	SET5	Free Elective-I	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
PRACTICALS / DRAWING / DESIGN																	
06	SETp6	Analog Electronics-II Lab	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
07	SETp7	Power Electronics & Drives Lab	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
08	SETp8	Micro Processor & Micro Controller Lab	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
09	SETp9	Skill Development Lab-III (Simulation)	2	--	2	4	2	--	--	--	--	--	50	50	100	25(Int.) 25(Ext)	
Total			21	2	8	31	26	--	--	--	500	--	--	--	250	--	
Total															750		

Free Elective-I:

1. Electronic Test Instruments

2. Satellite & Optical Fiber Communication


J. Hemant M. Baradkar
 Principal
 Jagadamba College of Engineering & Technology, Arni Road, Kinhi, Yavatnar


Semester : Sixth																	
Sr. No.	Subject Code	Subject	TEACHING SCHEME					EXAMINATION SCHEME									
			HOURS / WEEK			Total HOURS/WEEK	CREDITS	THEORY					PRACTICAL				
			Lecture	Tutorial	P/D			Duration Of Paper (Hr.)	Max. Marks Theory Paper	Internal Marks	Total	Min. Passing Marks	Max. Marks		Total	Min. Passing Marks	
		Int.	Ext.														
THEORY																	
01	6ET1	Microcontroller Programming & Applications	4	1	--	5	5	3	80	20	100	40	--	--	--	--	
02	6ET2	Control Systems Engineering	4	--	--	4	4	3	80	20	100	40	--	--	--	--	
03	6ET3	Digital Communication	4	1	--	5	5	3	80	20	100	40	--	--	--	--	
04	6ET4	Digital Signal Processing	4	--	--	4	4	3	80	20	100	40	--	--	--	--	
05	6ET5	Free Elective-II	3	--	--	3	3	3	80	20	100	40	--	--	--	--	
06	6ET6	Communication Skills	2	--	--	2	--	--	40	10	50	20	--	--	--	--	
PRACTICALS / DRAWING / DESIGN																	
07	6ETp7	Digital Communication Lab	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
08	6ETp8	Digital Signal Processing Lab	--	--	2	2	1	--	--	--	--	--	25	25	50	25	
09	6ETp9	Communication Skills Lab	--	--	2	2	1	--	--	--	--	--	15	10	25	12	
10	6ETp10	Skill Development Lab-IV (Hardware)	2	--	2	4	2	--	--	--	--	--	50	50	100	25(Int.) 25(Ext)	
Total			23	2	8	33	26	--	--	--	550	--	--	--	225	--	
															Total	775	

Free Elective-II:

1.Consumer Electronics

2. Introduction to Wireless Technology





JAGADAMBHA BAHUUDDESHIYA GRAMIN VIKAS SANSTH'S

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Approved by A.I.C.T.E. & Government of Maharashtra, Affiliated to S.G.B. Amravati University, Amravati.

Dr. Hemant M. Baradkar

M.Tech. (Electronics), Ph.D. (E & TC. Engg.)
Principal

Dr. Shital A. Watile

M.Sc., Ph.D.
Secretary

COMPUTER ENGINEERING DEPARTMENT

List of Free Electives offered

SESSION 2016 - 2017 (ODD SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	5FEKE5	Web Technologies
2	5FEKE5	Object Oriented Programming

SESSION 2016 - 2017 (EVEN SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	6FEKE5	Java Programming
2	6FEKE5	Expert Systems

SESSION 2017 - 2018 (ODD SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	5FEKE5	Web Technologies
2	5FEKE5	Object Oriented Programming

SESSION 2017 - 2018 (EVEN SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	6FEKE5	Java Programming
2	6FEKE5	Expert Systems

SESSION 2018 - 2019 (ODD SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	5FEKE5	Web Technologies
2	5FEKE5	Object Oriented Programming

SESSION 2018 - 2019 (EVEN SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	6FEKE5	Java Programming
2	6FEKE5	Expert Systems

SESSION 2019 - 2020 (ODD SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	5FEKE5	Web Technologies
2	5FEKE5	Object Oriented Programming

SESSION 2019 - 2020 (EVEN SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	6FEKE5	Java Programming
2	6FEKE5	Expert Systems

(Signature)



ARNI ROAD, YAVATMAL - 445001 (M.S.) INDIA

Tel. / Fax : 07232-291444, Mob. : 9011083260

Website : www.jcoet.org, Email : principal@jcoet.org, principal.jcoet@gmail.com

Jagadamba Collage of Engineering
Technology Arni Road, Kinhi, Yavatmal.

Principal



JAGADAMBHA BAHUUDDESHIYA GRAMIN VIKAS SANSTH'S

JAGADAMBHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL



Approved by A.I.C.T.E. & Government of Maharashtra, Affiliated to S.G.B. Amravati University, Amravati.

Dr. Hemant M. Baradkar

M.Tech. (Electronics), Ph.D. (E & TC. Engg.)
Principal

Dr. Shital A. Watile

M.Sc., Ph.D.
Secretary

COMPUTER ENGINEERING DEPARTMENT

List of Free Electives offered

SESSION 2020 - 2021 (ODD SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	5FEKE5	WEB TECHNOLOGIES
2	5FEKE5	OBJECT ORIENTED PROGRAMMING

SESSION 2020 - 2021 (EVEN SEMESTER)		
Sr. No.	Subject Code	Name of Elective Subjects
1	6FEKE5	Java Programming
2	6FEKE5	EXPERT SYSTEMS



Principal
Jagadamba Collage of Engineering &
Technology Arni Road, Kinhi, Yavatmal

ARNI ROAD, YAVATMAL - 445001 (M.S.) INDIA

Tel. / Fax : 07232-291444, Mob. : 9011083260

Wbsite : www.jcoet.org, Email : principal@jcoet.org, principal.jcoet@gmail.com



JAGADAMBHA BAHUUDDESHIYA GRAMIN VIKAS SANSTH'S

JAGADAMBHA

COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL



Approved by A.I.C.T.E. & Government of Maharashtra, Affiliated to S.G.B. Amravati University, Amravati.

Dr. Hemant M. Baradkar

M.Tech. (Electronics), Ph.D. (E & TC. Engg.)
Principal

Dr. Shital A. Watile

M.Sc., Ph.D.
Secretary

MECHANICAL ENGINEERING DEPARTMENT

List of Free Electives offered

SESSION 2016 - 2017 (ODD SEMESTER)		
Sr. No.	Subject code	Subject Name
1	5FEME5	Manufacturing Techniques
2	5FEME5	Ergonomics
3	5FEME5	Production Management
4	5FEME5	Project Management

SESSION 2016 - 2017 (EVEN SEMESTER)		
Sr. No.	Subject code	Subject Name
1	6FEME5	Automobile Engineering
2	6FEME5	Non-Conventional Energy Systems
3	6FEME5	Energy Management

SESSION 2017 - 2018 (ODD SEMESTER)		
Sr. No.	Subject code	Subject Name
1	5FEME5	Manufacturing Techniques
2	5FEME5	Ergonomics
3	5FEME5	Production Management
4	5FEME5	Project Management

SESSION 2017 - 2018 (EVEN SEMESTER)		
Sr. No.	Subject code	Subject Name
1	6FEME5	Automobile Engineering
2	6FEME5	Non-Conventional Energy Systems
3	6FEME5	Energy Management

SESSION 2018 - 2019 (ODD SEMESTER)		
Sr. No.	Subject code	Subject Name
1	5FEME5	Manufacturing Techniques
2	5FEME5	Ergonomics
3	5FEME5	Production Management
4	5FEME5	Project Management

SESSION 2018 - 2019 (EVEN SEMESTER)		
Sr. No.	Subject code	Subject Name
1	6FEME5	Automobile Engineering
2	6FEME5	Non-Conventional Energy Systems
3	6FEME5	Energy Management

SESSION 2019 - 2020 (ODD SEMESTER)		
Sr. No.	Subject code	Subject Name
1	5FEME5	Manufacturing Techniques
2	5FEME5	Ergonomics
3	5FEME5	Production Management
4	5FEME5	Project Management

SESSION 2019 - 2020 (EVEN SEMESTER)		
Sr. No.	Subject code	Subject Name
1	6FEME5	Automobile Engineering
2	6FEME5	Non-Conventional Energy Systems
3	6FEME5	Energy Management



ARNI ROAD, YAVATMAL - 445001 (M.S.) INDIA
Tel. / Fax : 07232-291444, Mob. : 9011083260
Wbsite : www.jcoet.org, Email : principal@jcoet.org, principal.jcoet@gmail.com

Principal
Jagadamba College of Engineering
Technology Arni Road, Kinhi, Yavatmal



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COLLEGE OF ENGINEERING & TECHNOLOGY, YAVATMAL



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Dr. Hemant M. Baradkar

M.Tech. (Electronics), Ph.D. (E & TC. Engg.)
Principal

Dr. Shital A. Watile

M.Sc., Ph.D.
Secretary

MECHANICAL ENGINEERING DEPARTMENT

List of Free Electives offered

SESSION 2020 - 2021 (ODD SEMESTER)		
Sr. No.	Subject code	Subject Name
1	5FEME5	Manufacturing Techniques
2	5FEME5	Ergonomics
3	5FEME5	Production Management
4	5FEME5	Project Management

SESSION 2020 - 2021 (EVEN SEMESTER)		
Sr. No.	Subject code	Subject Name
1	6FEME5	Automobile Engineering
2	6FEME5	Non-Conventional Energy Systems
3	6FEME5	Energy Management



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CIVIL ENGINEERING DEPARTMENT

List of Free Electives offered

SESSION 2016 - 2017 (ODD SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	5FECE5	Introduction to Earthquake Engineering
2	5FECE5	Basics of Building Construction
3	5FECE5	Watershed Management

SESSION 2016 - 2017 (EVEN SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	6FECE5	Disaster Management
2	6FECE5	Environmental Management

SESSION 2017 - 2018 (ODD SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	5FECE5	Introduction to Earthquake Engineering
2	5FECE5	Basics of Building Construction
3	5FECE5	Watershed Management

SESSION 2017 - 2018 (EVEN SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	6FECE5	Disaster Management
2	6FECE5	Environmental Management

SESSION 2018 - 2019 (ODD SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	5FECE5	Introduction to Earthquake Engineering
2	5FECE5	Basics of Building Construction
3	5FECE5	Watershed Management

SESSION 2018 - 2019 (EVEN SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	6FECE5	Disaster Management
2	6FECE5	Environmental Management

SESSION 2019 - 2020 (ODD SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	5FECE5	Introduction to Earthquake Engineering
2	5FECE5	Basics of Building Construction
3	5FECE5	Watershed Management

SESSION 2019 - 2020 (EVEN SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	6FECE5	Disaster Management
2	6FECE5	Environmental Management



ARNI ROAD, YAVATMAL - 445001 (M.S.) INDIA

Tel. / Fax : 07232-291444, Mob. : 9011083260

Website : www.jcoet.org, Email : principal@jcoet.org, principal@jcoet.org

Principal

Jagadamba College of Engineering & Technology Arni Road, Kinhi, Yavatmal



Dr. Hemant M. Baradkar

M.Tech. (Electronics), Ph.D. (E & TC. Engg.)
Principal

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M.Sc., Ph.D.
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List of Free Electives offered

SESSION 2020 - 2021 (ODD SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	5FECE5	Introduction to Earthquake Engineering
2	5FECE5	Basics of Building Construction
3	5FECE5	Watershed Management

SESSION 2020 - 2021 (EVEN SEMESTER)		
Sr. No.	Subject Code	Name of Elective Subjects
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Secretary

ELECTRICAL ENGINEERING DEPARTMENT

List of Free Electives offered

SESSION 2016 - 2017 (ODD SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	5FEEE5	ENERGY AUDIT & MANAGEMENT
2	5FEEE5	ELECTRICAL DRIVES

SESSION 2016 - 2017 (EVEN SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	6FEEE5	POWER SUPPLY SYSTEMS
2	6FEEE5	ELECTRICAL ESTIMATING & COSTING

SESSION 2017 - 2018 (ODD SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	5FEEE5	ENERGY AUDIT & MANAGEMENT
2	5FEEE5	ELECTRICAL DRIVES

SESSION 2017 - 2018 (EVEN SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	6FEEE5	POWER SUPPLY SYSTEMS
2	6FEEE5	ELECTRICAL ESTIMATING & COSTING

SESSION 2018 - 2019 (ODD SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
1	5FEEE5	ENERGY AUDIT & MANAGEMENT
2	5FEEE5	ELECTRICAL DRIVES

SESSION 2018 - 2019 (EVEN SEMESTER)		
Sr. No.	Subject code	Name of Elective Subjects
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2	6FEEE5	ELECTRICAL ESTIMATING & COSTING

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Sr. No.	Subject code	Name of Elective Subjects
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ARNI ROAD, YAVATMAL - 445001 (M.S.) INDIA

Tel. / Fax : 07232-291444, Mob. : 9011083260

Wbsite : www.jcoet.org, Email : principal@jcoet.org, principal.jcoet@gmail.com

Jagadamba Collage of Engineerin
Technology, Arni Road, Kinhi, Yavatm.

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SESSION 2020 - 2021 (EVEN SEMESTER)		
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Dr. Shital A. Watile

M.Tech. (Electronics), Ph.D. (E & TC. Engg.)
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M.Sc., Ph.D.
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ELECTRONICS & TELECOMMUNICATION ENGINEERING DEPARTMENT

List of Free Electives

SESSION 2016 - 2017 (ODD SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students	Name of Department Opted
1	5FEXT5	Consumer Electronics	Consumer Electronics	Electrical Engineering
2	5FEXT5	Fiber Optics		

SESSION 2016 - 2017 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students	Name of Department Opted
1	6FEXT5	Introduction to Wireless Technology	Introduction to Wireless Technology	Computer Engineering
2	6FEXT5	Electronic Test Instruments - Analog & Digital	Electronic Test Instruments - Analog & Digital	Electrical Engineering

SESSION 2017 - 2018 (ODD SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students	Name of Department Opted
1	5FEXT5	Consumer Electronics	Consumer Electronics	Electrical Engineering
2	5FEXT5	Fiber Optics		

SESSION 2017 - 2018 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students	Name of Department Opted
1	6FEXT5	Introduction to Wireless Technology	Introduction to Wireless Technology	Computer Engineering
2	6FEXT5	Electronic Test Instruments - Analog & Digital	Electronic Test Instruments - Analog & Digital	Electrical Engineering



Dr. Hemant M. Baradkar
Principal

Jagadamba College of Engineering & Technology, Amli Road, Kishi, Yavatmal

ARNI ROAD, YAVATMAL - 445001 (M.S.) INDIA

Tel. / Fax : 07232-291444, Mob. : 9011083260

Wbsite : www.jcoet.org, Email : principal@jcoet.org, principal.jcoet@gmail.com



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List of Free Electives

SESSION 2018 - 2019 (ODD SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students	Name of Department Opted
1	5FEET5	Electronic Test Instruments	Electronic Test Instruments	Electrical Engineering
2	5FEET5	Satellite & Optical Fiber Communication		

SESSION 2018 - 2019 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students	Name of Department Opted
1	6FEET5	Consumer Electronics	Introduction to Wireless Technology	Computer Engineering
2	6FEET5	Introduction to Wireless Technology		

SESSION 2019 - 2020 (ODD SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students	Name of Department Opted
1	5FEET5	Electronic Test Instruments	Electronic Test Instruments	Electrical Engineering
2	5FEET5	Satellite & Optical Fiber Communication		

SESSION 2019 - 2020 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students	Name of Department Opted
1	6FEET5	Consumer Electronics	Introduction to Wireless Technology	Computer Engineering
2	6FEET5	Introduction to Wireless Technology		



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Principal

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Tel. / Fax : 07232-291444, Mob. : 9011083260

Website : www.jcoet.org, Email : principal@jcoet.org, principal.jcoet@gmail.com



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M.Sc., Ph.D.

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**ELECTRONICS & TELECOMMUNICATION
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List of Free Electives offered

SESSION 2020 - 2021 (ODD SEMESTER)

Sr. No.	Subject code	Name of Elective Subjects
1	5FEET5	Electronic Test Instruments
2	5FEET5	Satellite & Optical Fiber Communication

SESSION 2020 - 2021 (EVEN SEMESTER)

Sr. No.	Subject Code	Name of Elective Subjects
1	6FEET5	Consumer Electronics
2	6FEET5	Introduction to Wireless Technology



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Technology Arni Road, Kinhi, Yavatmal

ARNI ROAD, YAVATMAL - 445001 (M.S.) INDIA

Tel. / Fax : 07232-291444, Mob. : 9011083260

Wbsite : www.jcoet.org, Email : principal@jcoet.org, principal.jcoet@gmail.com



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M.Tech. (Electronics), Ph.D. (E & TC. Engg.)
Principal

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M.Sc., Ph.D.
Secretary

ELECTRONICS & TELECOMMUNICATION ENGINEERING DEPARTMENT

List of Elective offered (Master of Engineering)

SESSION 2016 - 2017 (ODD SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
1	1ENTC5 (1)	Real Time Embedded System	Cryptography & Network Security
2	1ENTC5 (2)	Data Compression	
3	1ENTC5 (3)	Artificial Intelligent System	
4	1ENTC5 (4)	Cryptography & Network Security	

SESSION 2016 - 2017 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
1	2ENTC5 (1)	Mobile Computing	Mobile Computing
2	2ENTC5 (2)	Communication System Design	
3	2ENTC5 (3)	Optical Networks	
4	2ENTC5 (4)	Speech & Audio Processing	

SESSION 2017 - 2018 (ODD SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
1	1ENTC5 (1)	Real Time Embedded System	Cryptography & Network Security
2	1ENTC5 (2)	Data Compression	
3	1ENTC5 (3)	Artificial Intelligent System	
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SESSION 2017 - 2018 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
1	2ENTC5 (1)	Mobile Computing	Mobile Computing
2	2ENTC5 (2)	Communication System Design	
3	2ENTC5 (3)	Optical Networks	
4	2ENTC5 (4)	Speech & Audio Processing	



Handwritten signature of Dr. Hemant M. Baradkar

Jr. Hemant M. Baradkar
Principal

Jagadamba College of Engineering & Technology, Arni Road, Kinhi, Yavatmal

ARNI ROAD, YAVATMAL - 445001 (M.S.) INDIA

Tel. / Fax : 07232-291444, Mob. : 9011083260

Website : www.jcoet.org, Email : principal@jcoet.org, principal.jcoet@gmail.com



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ELECTRONICS & TELECOMMUNICATION ENGINEERING DEPARTMENT

List of Elective offered (Master of Engineering)

SESSION 2018 - 2019 (ODD SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
1	1ENTC5 (1)	Real Time Embedded System	Cryptography & Network Security
2	1ENTC5 (2)	Data Compression	
3	1ENTC5 (3)	Artificial Intelligent System	
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SESSION 2018 - 2019 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
1	2ENTC5 (1)	Mobile Computing	Mobile Computing
2	2ENTC5 (2)	Communication System Design	
3	2ENTC5 (3)	Optical Networks	
4	2ENTC5 (4)	Speech & Audio Processing	

SESSION 2019 - 2020 (ODD SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
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2	1ENTC5 (2)	Data Compression	
3	1ENTC5 (3)	Artificial Intelligent System	
4	1ENTC5 (4)	Cryptography & Network Security	

SESSION 2019 - 2020 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
1	2ENTC5 (1)	Mobile Computing	Mobile Computing
2	2ENTC5 (2)	Communication System Design	
3	2ENTC5 (3)	Optical Networks	
4	2ENTC5 (4)	Speech & Audio Processing	



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Jr. Hemant M. Baradkar
Principal

Jagadamba College of Engineering & Technology, Arni Road, Kirti, Yavatmal

ARNI ROAD, YAVATMAL - 445001 (M.S.) INDIA

Tel. / Fax : 07232-291444, Mob. : 9011083260

Website : www.jcoet.org, Email : principal@jcoet.org, principal.jcoet@gmail.com



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Dr. Shital A. Watile

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CIVIL (STRUCTURAL) ENGINEERING DEPARTMENT

List of Elective offered (Master of Engineering)

SESSION 2016 - 2017 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
1	2SPSE5	Substructures and Foundation Design	Substructures and Foundation Design
2	2SPSE5	Earthquake Resistant Design of Bridges & Dams	
3	2SPSE5	Theory of Elasticity and Stability	
4	2SPSE5	Design of Environmental Structures	

SESSION 2017 - 2018 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
1	2SPSE5	Substructures and Foundation Design	Substructures and Foundation Design
2	2SPSE5	Earthquake Resistant Design of Bridges & Dams	
3	2SPSE5	Theory of Elasticity and Stability	
4	2SPSE5	Design of Environmental Structures	

SESSION 2018 - 2019 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
1	2SPSE5	Substructures and Foundation Design	Substructures and Foundation Design
2	2SPSE5	Earthquake Resistant Design of Bridges & Dams	
3	2SPSE5	Theory of Elasticity and Stability	
4	2SPSE5	Design of Environmental Structures	

SESSION 2019 - 2020 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
1	2SPSE5	Substructures and Foundation Design	Substructures and Foundation Design
2	2SPSE5	Earthquake Resistant Design of Bridges & Dams	
3	2SPSE5	Theory of Elasticity and Stability	
4	2SPSE5	Design of Environmental Structures	

SESSION 2020 - 2021 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
1	2SPSE5	Substructures and Foundation Design	Substructures and Foundation Design
2	2SPSE5	Earthquake Resistant Design of Bridges & Dams	
3	2SPSE5	Theory of Elasticity and Stability	
4	2SPSE5	Design of Environmental Structures	

HMB

ARNI ROAD, YAVATMAL - 445001 (M.S.) INDIA

Tel. / Fax : 07232-291444, Mob. : 9011083260

Website : www.jcoet.org, Email : principal@jcoet.org, principal.jcoet@gmail.com

Dr. Hemant M. Baradkar
Principal

Jagadamba College of Engineering & Technology, Arni Road, Kinhi, Yavatmal



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M.Tech. (Electronics), Ph.D. (E & TC. Engg.)
Principal

Dr. Shital A. Watile

M.Sc., Ph.D.
Secretary

MECHANICAL ENGINEERING DEPARTMENT
List of Electives offered (Master of Engineering)
SESSION 2016 - 2017 (ODD SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
1	1MCC5 (1)	Concurrent Engineering	Management Information Systems
2	1MCC5 (2)	Engineering Experimental Techniques	
3	1MCC5 (3)	Management Information Systems	
4	1MCC5 (4)	Optimization Techniques	
5	1MCC5 (5)	Design of Manufacturing Assembly and Environment	

SESSION 2016 - 2017 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
1	2MCC5 (1)	Flexible Manufacturing System	Flexible Manufacturing System
2	2MCC5 (2)	Virtual Manufacturing	
3	2MCC5 (3)	Industrial Automation	
4	2MCC5 (4)	Rapid Prototyping and Tooling	

SESSION 2017 - 2018 (ODD SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
1	1MCC5 (1)	Concurrent Engineering	Management Information Systems
2	1MCC5 (2)	Engineering Experimental Techniques	
3	1MCC5 (3)	Management Information Systems	
4	1MCC5 (4)	Optimization Techniques	
5	1MCC5 (5)	Design of Manufacturing Assembly and Environment	

SESSION 2017 - 2018 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
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Dr. Hemant M. Baradkar
Principal

Jagadamba College of Engineering & Technology, Arni Road, Kinhi, Yavatmal

ARNI ROAD, YAVATMAL - 445001 (M.S.) INDIA

Tel. / Fax : 07232-291444, Mob : 9037083260

Wbsite : www.jcoet.org, Email : principal@jcoet.org, principal.jcoet@gmail.com

**Dr. Hemant M. Baradkar**M.Tech. (Electronics), Ph.D. (E & TC. Engg.)
Principal**Dr. Shital A. Watile**M.Sc., Ph.D.
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3	2MCC5 (3)	Industrial Automation	
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3	1MCC5 (3)	Management Information Systems	
4	1MCC5 (4)	Optimization Techniques	
5	1MCC5 (5)	Design of Manufacturing Assembly and Environment	

SESSION 2019 - 2020 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
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2	2MCC5 (2)	Virtual Manufacturing	
3	2MCC5 (3)	Industrial Automation	
4	2MCC5 (4)	Rapid Prototyping and Tooling	

ARNI ROAD, YAVATMAL - 445003 (M.S.) INDIA

Tel. / Fax : 07232-291444, Mob: 20911085260

Wbsite : www.jcoet.org, Email : principal@jcoet.org, principal.jcoet@gmail.com

Dr. Hemant M. Baradkar
Principal

Jagadamba College of Engineering & Technology, Arni Road, Kinhi, Yavatmal



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3	2MCC5 (3)	Industrial Automation	
4	2MCC5 (4)	Rapid Prototyping and Tooling	



Dr. Hemant M. Baradkar
Principal
Jagadamba College of Engineering & Technology, Arni Road, Kinhi, Yavatmal

ARNI ROAD, YAVATMAL - 445001 (M.S.) INDIA

Tel. / Fax : 07232-291444, Mob. : 9011083260

Website : www.jcoet.org, Email : principal@jcoet.org, principal.jcoet@gmail.com

**Dr. Hemant M. Baradkar**M.Tech. (Electronics), Ph.D. (E & TC. Engg.)
Principal**Dr. Shital A. Watile**M.Sc., Ph.D.
Secretary**COMPUTER SCIENCE & ENGINEERING DEPARTMENT**
List of Elective offered (Master of Engineering)

SESSION 2016 - 2017 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
1	2RMEF4	MOBILE COMPUTING	NETWORK SECURITY
2	2RMEF4	NETWORK SECURITY	
3	2RMEF4	COMPUTER VISION AND IMAGE PROCESSING	

SESSION 2017 - 2018 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
1	2RMEF4	MOBILE COMPUTING	NETWORK SECURITY
2	2RMEF4	NETWORK SECURITY	
3	2RMEF4	COMPUTER VISION AND IMAGE PROCESSING	

SESSION 2018 - 2019 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
1	2RMEF4	MOBILE COMPUTING	NETWORK SECURITY
2	2RMEF4	NETWORK SECURITY	
3	2RMEF4	COMPUTER VISION AND IMAGE PROCESSING	

SESSION 2019 - 2020 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
1	2RMEF4	MOBILE COMPUTING	NETWORK SECURITY
2	2RMEF4	NETWORK SECURITY	
3	2RMEF4	COMPUTER VISION AND IMAGE PROCESSING	

SESSION 2020 - 2021 (EVEN SEMESTER)

Sr. No.	Subject code	Subject Name	Opted by Students
1	2RMEF4	MOBILE COMPUTING	NETWORK SECURITY
2	2RMEF4	NETWORK SECURITY	
3	2RMEF4	COMPUTER VISION AND IMAGE PROCESSING	

ARNI ROAD, YAVATMAL - 445001 (M.S.) INDIA

Tel. / Fax : 07232-291444, Mob. 29011083260

Wbsite : www.jcoet.org, Email : principal@jcoet.org, principal.jcoet@gmail.com

Dr. Hemant M. Baradkar
Principal

Jagadamba College of Engineering & Technology, Arni Road, Kinhi, Yavatmal

M.E. (Part Time /Full Time)

Prospectus No. 151739

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Principal
Jagadamba College of Engineering &
Technology, Ami Road, Kinhi, Yavatmal

SANT GADGE BABA AMRAVATI UNIVERSITY

SPECIAL NOTE FOR INFORMATION OF THE STUDENTS

- (1) Notwithstanding anything to the contrary, it is notified for general information and guidance of all concerned that a person, who has passed the qualifying examination and is eligible for admission only to the corresponding next higher examination as an ex-student or an external candidate, shall be examined in accordance with the syllabus of such next higher examination in force at the time of such examination in such subjects papers or combination of papers in which students from University Departments or Colleges are to be examined by the University.
- (2) Be it known to all the students desirous to take examination/s for which this prospectus has been prescribed should, if found necessary for any other information regarding examinations etc., refer the University Ordinance Booklet the various conditions/provisions pertaining to examination as prescribed in the following Ordinances.

Ordinance No. 1	:	Enrolment of Students.
Ordinance No. 2	:	Admission of Students
Ordinance No. 4	:	National cadet corps
Ordinance No. 6	:	Examinations in General (relevent extracts)
Ordinance No. 18/2001	:	An Ordinance to provide grace marks for passing in a Head of passing and Improvement of Division (Higher Class) and getting Distinction in the subject and condonation of deficiency of marks in a subject in all the faculties prescribed by the Statute No.18, Ordinance 2001.
Ordinance No. 9	:	Conduct of Examinations (relevent extracts)
Ordinance No. 10	:	Providing for Exemptions and Compartments
Ordinance No. 19	:	Admission of Candidates to Degrees.

- Ordinance No. 109 : Recording of a change of name of a University student in the records of the University.
- Ordinance No. 6 of 2008 : For improvement of Division/Grade.
- Ordinance No.19/2001 : An Ordinance for Central Assessment Programme, Scheme of Evaluation and Moderation of answerbooks and preparation of results of the examinations, conducted by the University, Ordinance 2001.

Dineshkumar Joshi
Registrar
Sant Gadge Baba Amravati University

PATTERN OF QUESTION PAPER ON THE UNIT SYSTEM

The pattern of question paper as per unit system will be broadly based on the following pattern.

- (1) Syllabus has been divided into units equal to the number of question to be answered in the paper. On each unit there will be a question either a long answer type or a short answer type.
- (2) Number of question will be in accordance with the unit prescribed in the syllabi for each paper i.e. there will be one question on each unit.
- (3) For every question long answer type or short answer type there will be an alternative choice from the same unit. However, there will be no internal choice in a question.
- (4) Division of marks between long answer and short answer type question will be in the ratio of 40 and 60.
- (5) Each short answer type question shall Contain 4 to 8 short sub question with no internal choice.



[Handwritten Signature]

Dr. Hemant M. Baradkar
Principal
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Technology, Arni Road, Kinhi, Yavatmal

SANT GADGE BABA AMRAVATI UNIVERSITY
DIRECTION

No. 31/2010

Date : 24 /6/2010

Subject : Examinations leading to the Degree of अभियांत्रिकी पदवत (Master of Engineering) (Full-Time) / तंत्रशास्त्र पदवत (Master of Technology) (Full Time) (Semester Pattern Credit Grade System)

Whereas the schemes of teaching & examinations of Master of Engineering (Full-Time) / Master of Technology (Full Time) courses has been accepted by the Academic Council vide Item No. 49 in its meeting held on 28-05-2010 as per the Credit Grade System for its implementation from the Academic Session 2010-2011,

AND

Whereas admissions to the First Year of Master of Engineering (Full-Time) / Master of Technology (Full Time) courses are to be made in the Academic Session 2010-2011,

AND

Whereas the matter for admission of the students at the examinations is required to be regulated by an Ordinance,

AND

Whereas the schemes of teaching & examinations of I and II Semesters of Master of Engineering (Full-Time) / Master of Technology (Full Time) courses are to be implemented from the academic session 2010-2011,

AND

Whereas the schemes of teaching & examinations are required to be regulated by the Regulation,

AND

Whereas the process of making an Ordinance and the Regulation is likely to take some time,

AND

Whereas syllabus for I and II Semesters of Master of Engineering (Full-Time) / Master of Technology (Full Time) courses are to be sent for printing.

Now, therefore, I, Dr.Ku.Kamal Singh, Vice-Chancellor of Sant Gadge Baba Amravati University in exercise of powers confirmed upon me under sub section (8) of Section 14 of the

Maharashtra Universities Act, 1994, hereby direct as under :

1. This Direction may be called "Examinations leading to the Degree of अभियांत्रिकी पदवत (Master of Engineering) (Full-Time) / तंत्रशास्त्र पदवत (Master of Technology) (Full Time) (Semester Pattern Credit Grade System) Direction, 2010.
2. This Direction shall come into force w.e.f. the session :-
 - i) 2010-2011 for First Year, and
 - ii) 2011-2012 for Second Year
3. Following shall be the Examinations leading to the Degree of Master of Engineering (Full Time) / Master of Technology (Full Time) courses :-
 - i) M.E./M.Tech. Semester-I Examination
 - ii) M.E./M.Tech. Semester-II Examination
 - iii) M.E./M.Tech. Semester-III Examination
 - iv) M.E./M.Tech. Semester-IV Examination
- 3.
4. Examinations of IIIrd & IVth semesters shall be held at the end of IVth semester separately.
5. An applicant for admission to the Degree of Master of Engineering (Full Time) / Master of Technology (Full-Time) courses shall have passed the Degree Examination in Bachelor of Engineering/Bachelor of Technology in the branches mentioned under column No.2 of the following table against respective course :-

TABLE

ME/M.Tech.	B.E./B.Tech. of this University or any other statutory University
1.	2.
a) M.E. Civil (Structural Engg.)	Civil /Construction Engg., Water Management
b) M.E. Mechanical (CAD/CAM)	Mechanical/Automobile/Production/ Industrial Engineering
c) M.E. Digital Electronics	Electronics & Telecommunication, Electronics Engg., Industrial Electronics, Instrumentation & Information Tech.
d) M.E. Electrical (E.P.S.)	Electrical / Electrical Power System / Electronics & Power
e) M.Tech. Chemical Technology (Membrane & Separation Technology)	Chemical Engineering/Chemical Technology



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f) M.Tech. (Chemical Engineering)	Chemical Engg./Chemical Tech., Petrochemical Engg./Tech., Plastics & Polymer Engg./Tech., Pulp & Paper Tech.
g) M.E. (Computer Science & Engineering)	Computer Science & Engineering, Computer Technology, Computer Engineering, Electronics Engg., Electronics & Telecommunication, Information Technology
h) M.E. (Information Technology)	Information Technology, Computer Science & Engineering, Computer Technology, Computer Engineering, Electronics & Telecommunication, Electronics Engineering
i) M.E. (Electronics & Telecommunication)	Electronics & Telecommunication, Electronics Engg., Industrial Electronics & Instrumentation

6. The Degree of Master of Engineering (Full-Time) / Master of Technology (Full-Time) shall be awarded to an examinee who in accordance qualifies in any one of the following subjects :-
- 1) M.E. Civil (Structural Engineering)
 - 2) M.E. Mechanical (CAD/CAM)
 - 3) M.E. Digital Electronics
 - 4) M.E. Electrical (Electrical Power System)
 - 5) M.Tech. Chemical Technology (Membrane & Separation Technology)
 - 6) M.Tech. Chemical Engineering
 - 7) M.E. Computer Science & Engineering
 - 8) M.E. Information Technology
 - 9) M.E. Electronics & Telecommunication Engineering
7. (i) University shall hold Main Examinations of Semester-I of above mentioned Full Time Degree Courses in Winter every year and Supplementary Examinations in Summer every year at the end of the Second Semester
- (ii) University shall hold Main Examinations of Semesters-II, III & IV in Summer every year and Supplementary Examinations in Winter every year.
- (iii) The period of Academic session shall be such as may be notified in Academic Calender of the concerned academic session.

- (iv) Examinations shall be held at such places and on such dates as may be notified by Board of Examinations.
8. For the purposes of Instructions and Examinations, students shall study sequentially.
9. Subject to his/her compliance with the provisions of Ordinance relating to Examinations in General, the applicant for admission to an examination at the end of the course of study of a particular semester shall be eligible to appear at it, if;
- (i) He/She has satisfied the conditions mentioned in the following table and the provisions thereunder.

TABLE I

Sr. No.	Name of Exam.	The student should have completed the term satisfactorily of	The student should have passed the subjects of examination of
1.	M.E./M.Tech. Semester-I	Semester-I	---
2.	M.E./M.Tech. Semester-II	Semester-II	---
3.	M.E./M.Tech. Semester-III	Semester-III	2/3 heads of passing of Semester-I & II taken together
4.	M.E./M.Tech. Semester-IV	Semester-IV	---

(Explanation :- The Theory or Practical part of the subject shall be treated as separate head of Passing.)

- (ii) He/She shall not be allowed to submit the dissertation till he/she has passed in all subjects of I & II Semester.
10. The schemes of teaching & examinations shall be as provided under "Appendices A, B, C, D, E, F, G, H and I" appended with this Direction.
11. The fees for each M.E. (Full Time) / M.Tech. (Full Time) Examinations (Theory & Practical) shall be as prescribed by University from time to time.
12. The computation of Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) of an examinee shall be as given below :-
- The marks will be given in all examinations which will include college assessment marks and the total marks for each Theory / Practical shall be converted into grades as per Table II.



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SGPA shall be calculated based on Grade Points corresponding to Grade as given in Table II and the Credits allotted to respective Theory / Practical shown in the scheme for respective semester.

SGPA shall be computed for I, II and IV Semester (III & IV Semester together) and CGPA shall be computed in IV semester based on SGPA's of I, II and IV Semester. :-

$$SGPA = \frac{C_1 \times G_1 + C_2 \times G_2 + \dots + C_n \times G_n}{C_1 + C_2 + \dots + C_n}$$

Where C_1 = Credit of individual Theory / Practical
 G_1 = Corresponding Grade Point obtained in the respective Theory / Practical

$$CGPA = \frac{(SGPA)_I \times (Cr)_I + (SGPA)_{II} \times (Cr)_{II} + (SGPA)_{IV} \times (Cr)_{IV}}{(Cr)_I + (Cr)_{II} + (Cr)_{IV}}$$

Where $(SGPA)_{I,II,IV}$ = SGPA of I, II & IV Semester
 $(Cr)_{I,II,IV}$ = Total Credits for I, II & IV Semester

TABLE II
THEORY & PRACTICALS

Grade	Percentage of Marks	Grade Points
AA	85 £ Marks £ 100	10
AB	75 £ Marks < 85	9
BB	70 £ Marks < 75	8
BC	65 £ Marks < 70	7
CC	60 £ Marks < 65	6
CD	55 £ Marks < 60	5
DD	50 £ Marks < 55	4
FF	00 £ Marks < 50	0
ZZ	Absent in Examination	--

13. (i) The scope of the subject shall be as indicated in the syllabus.
(ii) The medium of instructions and examination shall be English.
14. Provisions of Ordinance No.18 of 2001 in respect of an Ordinance to provide grace marks for passing in a Head of passing and improvement of Division (Higher Class) and getting distinction in the subject and condonation of deficiency of marks

in a subject in all the faculties prescribed by the Statute No.18, Ordinance, 2001 shall apply to each examination under this Direction.

15. An examinee, who does not pass or who fails to present himself/herself for the examination, shall be eligible for readmission to the said examination on payment of fresh fees, and such other fees as may be prescribed by the University.
16. As soon as possible after the examination, the Board of Examinations shall publish a result of the examinees. The result of all examinations shall be classified as above and branchwise merit list shall be notified as provided under Original Ordinance No.6.
17. Notwithstanding anything to the contrary, no one shall be admitted to an examination, if he/she has already passed the said examination or an equivalent examination of any Statutory University.
18. (i) Examinees who have passed in all the subjects prescribed for all the examinations of the particular branch shall be eligible for award of the Degree of Master of Engineering/ Master of Technology in that branch including specialization.
(ii) The Degree Certificate in the prescribed form shall be signed by the Vice-Chancellor.

Sd/-
Dr. Kamal Singh
Vice-Chancellor




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Principal
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**Two Year Post Graduate Degree Course in Master of Engineering (Full-Time)
Electronics and Telecommunication Engineering**

Appx
Appendix - A


First Semester																	
Sl. No.	Subject Code	Subject	TEACHING SCHEME					EXAMINATION SCHEME									
			HOURS / WEEK			CREDITS	THEORY				PRACTICAL						
			Lecture	Tutorial	Practical		Total Hours	Duration of Paper (Hr.)	Max. Marks Theory Paper	Max. Marks College Assessment	Total	Min. Passing Marks Theory Paper	Min. Passing Marks Subject	Max. Marks External	Max. Marks Internal	Total	Min. Passing Marks
01	ZENTC1	Advanced Optical Communication	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
02	ZENTC2	Random Processes	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
03	ZENTC3	Digital Communication Techniques	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
04	ZENTC4	Digital Signal Processing and Applications	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
05	ZENTC5	Elective - I	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
06	ZENTC6	Lab - I (based on ZENTC1 & ZENTC2)	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
07	ZENTC7	Lab - I (based on ZENTC4)	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
TOTAL			20	0	0	4	24	22				500				100	
TOTAL															600		

Elective - I : 1) Real Time Embedded System 2) Data Compression 3) Artificial Intelligent System 4) Cryptography & Network Security

Second Semester																	
Sl. No.	Subject Code	Subject	TEACHING SCHEME					EXAMINATION SCHEME									
			HOURS / WEEK			CREDITS	THEORY				PRACTICAL						
			Lecture	Tutorial	Practical		Total Hours	Duration of Paper (Hr.)	Max. Marks Theory Paper	Max. Marks College Assessment	Total	Min. Passing Marks Theory Paper	Min. Passing Marks Subject	Max. Marks External	Max. Marks Internal	Total	Min. Passing Marks
01	ZENTC1	Adaptive Signal Processing	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
02	ZENTC2	Wireless Communication	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
03	ZENTC3	Advanced Computer Networks and Programming	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
04	ZENTC4	RF & Microwave Circuit Design	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
05	ZENTC5	Elective - II	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
06	ZENTC6	Lab - II (based on ZENTC2 & ZENTC3)	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
07	ZENTC7	Lab - II (based on ZENTC4 & ZENTC5)	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
TOTAL			20	0	0	4	24	22				500				100	
TOTAL															600		

Elective - II : 1) Mobile Computing 2) Communication System Design 3) Optical Networks 4) Speech & Audio Processing




Dr. Hemant M. Baradka
 Principal
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Third Semester										
Sl. No.	Subject Code	Subject	Lecture	Tutorial	Practical	Total	CREDITS	INTERNAL MARKS	TOTAL	MIN. PASSING MARKS
01	JENTG1	SEMINAR AND DISSERTATION	-	-	5	5	10	100	100	50
TOTAL			-	-	5	5	10		100	
TOTAL										100

Fourth Semester											
Sl. No.	Subject Code	Subject	Lecture	Tutorial	Practical	Total	CREDITS	EXTERNAL MARKS	INTERNAL MARKS	TOTAL	MIN. PASSING MARKS
01	JENTG1	SEMINAR AND DISSERTATION	-	-	12	12	24	200	100	300	150
TOTAL			-	-	12	12	24			300	
TOTAL										300	
GRAND TOTAL										1600	

Semester III

Seminar - Seminar to be delivered on work completed during 3rd semester. 50 internal marks out of 100 will be assessed by a Committee consisting of Head of Department, dissertation guide and subject expert appointed by Principal of the College / Head of University Department. Remaining 50 internal marks will be given by guide based on performance.

Dissertation - Title of the dissertation work to be submitted to the University on or before 15th Sept. (for regular examination) and 15th of February (for supplementary exam.).

Semester IV

Seminar - to be delivered on the complete work of dissertation. 50 internal marks out of 100 will be assessed by a Committee consisting of Head of Department, dissertation guide and subject expert appointed by Principal of the College / Head of University Department. Remaining 50 internal marks will be given by guide based on performance.

Note : Thesis of dissertation work must be submitted to the University on or before 30th April (for regular exam.) and 30th November (for supplementary exam.). Thesis of Dissertation work be submitted with late fee to the University upto 31 May (for regular exam.) and 31st December (for supplementary exam.). The late fee shall be charged as in case of Examination form.

Notes : 1. Student should fill the examination form in the beginning of III semester jointly for III & IV semester.

2. Single marksheet for III & IV semester together will be given to the student.



HMS
Dr. Hemant M. Baradkar
 Principal
 Jagadambha College of Engineering &
 Technology, Arni Road, Kinhi, Yavatmal

APPENDIX-A
TWO YEAR POST GRADUATE DEGREE COURSE IN MASTER OF ENGINEERING (FULL TIME)
(STRUCTURAL ENGINEERING)
CREDIT GRADE SYSTEM
FIRST SEMESTER

Sr. No.	Subject Code	Subject	Teaching Scheme					Examination Scheme									
			Hours/Week				Credits	Theory			Practical			Min. Passing Marks			
			Lecture	Tutorial	P/D	Total Hours/Week		Theory Duration of Paper (Hr.)	Max. Marks Theory Paper	Max. Marks College Assessment	Total	Min. Passing Marks Theory Paper	Max. Marks External		Max. Marks Internal	Total	
1	1SPSE1	Introduction to Earthquake Engineering	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
2	1SPSE2	Theory of Plates and Shells	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
3	1SPSE3	Computer Methods of Structural Analysis	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
4	1SPSE4	Structural Dynamics	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
5	1SPSE5	Earthquake Resistant Design of Reinforced Concrete Structures	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
6	1SPSE6	Earthquake Resistant Design of Reinforced Concrete Structures - Laboratory	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
7	1SPSE7	Computer Aided Analysis & Design of Structures - Laboratory	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
			20	0	4	24	23				500					100	
													TOTAL		600		
SECOND SEMESTER																	
1	2SPSE1	Finite Element Method	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
2	2SPSE2	Advanced Design of Steel Structures	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
3	2SPSE3	Repairs & Retrofitting of Structures	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
4	2SPSE4	Design of Prestressed Concrete structures	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
5	2SPSE5	Elective*	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
6	2SPSE6	Adv. Design of Steel Structures - Laboratory	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
7	2SPSE7	Design of Prestressed Concrete Structures - Laboratory	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
			20	0	4	24	22				500					100	
													TOTAL		600		

Elective-II : 1) Substructures and Foundation Design (2) Earthquake Resistant Design of Bridges and Dams (3) Theory of Elasticity and Stability (4) Design of Environmental Structures



H.M. Baradkar
Dr. Hemant M. Baradkar
Principal
 Jagadamba College of Engineering &
 Technology, Arni Road, Kinhi, Yavatmal

THIRD SEMESTER

Sr.	Subject	Subject	Lecture	Tutorial	P/D	Total	Credits	Internal Marks	Total	Min. Passing Marks
1	3SFSE1	SEMINAR AND DISSERTATION	-	-	6	6	15	100	100	50
			-	-	6	6	15		100	

TOTAL : 100

FOURTH SEMESTER

Sr.	Subject	Subject	Lecture	Tutorial	P/D	Total	Credits	External Marks	Internal Marks	Total
1	4SFSE1	SEMINAR AND DISSERTATION	-	-	12	12	30	200	100	300
			-	-	12	12	30			300
GRAND TOTAL										1600

Semester III

Seminar : Seminar to be delivered on work completed during third semester. 50 internal marks out of 100 will be assessed by a Committee consisting of Head of Department, dissertation guide and subject expert appointed by Principal of the College / Head of University Department. Remaining 50 internal marks will be given by guide based on performance.

Dissertation : Title of the dissertation work to be submitted to the University on or before 15th Sept. (for regular examination) and 15th of February (for supplementary exam.).

Semester IV

Seminar : to be delivered on the complete work of dissertation. 50 internal marks out of 100 will be assessed by a Committee consisting of Head of Department, dissertation guide and subject expert appointed by Principal of the College / Head of University Department. Remaining 50 internal marks will be given by guide based on performance.

Note : Thesis of dissertation work must be submitted to the University on or before 30th April (for regular exam.) and 30th November (for supplementary exam.). Thesis of Dissertation work be submitted with late fee to the University upto 31 May (for regular exam.) and 31st December (for supplementary exam.). The late fee shall be charged as in case of Examination form.

Notes :

1. Student should fill the examination form in the beginning of 3rd semester jointly for 3rd & 4th semester.
2. Single marksheet for 3rd & 4th semester together will be given to the student.



Dr. Hemant M. Baradkar
Principal
Jagadamba College of Engineering &
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11
TWO YEAR POST GRADUATE DEGREE COURSE IN MASTER OF ENGINEERING (FULL TIME)
MECHANICAL ENGINEERING (CAD/CAM)
CREDIT GRADE SYSTEM
FIRST SEMESTER

Sr. Subject No. Code	Subject	Teaching Scheme					Examination Scheme																					
		Hours/Week					Theory			Practical																		
		Lecture	Tutorial	P/D	Total Hours/Week	Credits	Theory Duration of Paper (Hr.)	Max. Marks Theory Paper	Max. Marks College Assessment	Total	Min. Passing Marks Theory Paper	Max. Marks Subject	Max. Marks External	Max. Marks Internal	Total	Min. Passing Marks												
1	1MCC1	Computer Aided Design	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-											
2	1MCC2	Computer Aided Manufacturing	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-											
3	1MCC3	Computer Assisted Production Management	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-											
4	1MCC4	Mechatronics	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-											
5	1MCC5	Elective-I	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-											
6	1MCC6	Computer Aided Design-LAB.	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25											
7	1MCC7	Computer Aided Manufacturing-LAB.	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25											
														20	0	4	24	22	-	-	-	500				100		
														TOTAL														600

Elective - I : 1) Concurrent Engineering 2) Engineering Experimental Techniques 3) Management Information Systems 4) Optimization Techniques 5) Design of Manufacturing Assembly and Environment

SECOND SEMESTER

Sr. Subject No. Code	Subject	Teaching Scheme					Examination Scheme																				
		Hours/Week					Theory			Practical																	
		Lecture	Tutorial	P/O	Total Hours/Week	Credits	Theory Duration of Paper (Hr.)	Max. Marks Theory Paper	Max. Marks College Assessment	Total	Min. Passing Marks Theory Paper	Max. Marks Subject	Max. Marks External	Max. Marks Internal	Total	Min. Passing Marks											
1	2MCC1	Finite Element Analysis	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-										
2	2MCC2	Simulation Theory & Applications	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-										
3	2MCC3	Robotics & Robot Applications	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-										
4	2MCC4	Industrial Product Design	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-										
5	2MCC5	Elective-II	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-										
6	2MCC6	Finite Element Analysis-LAB.	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25										
7	2MCC7	Simulation Theory & Applications V-LAB.	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25										
														20	0	4	24	22	-	-	-	500				100	
														TOTAL													600

Elective-II : 1) Flexible Manufacturing System 2) Virtual Manufacturing 3) Industrial Automation 4) Rapid Prototyping and Tooling



Dr. Hemant M. Baradka
Principal
Jagadamba College of Engineering & Technology, Arni Road, Kinhi, Yavatmal

THIRD SEMESTER

Sr.	Subject	Subject	Lecture	Tutorial	P/D	Total	Credits	Internal Marks	Total	Min. Passing Marks
1	3MCCS	SEMINAR AND DISSERTATION	-	-	6	6	15	100	100	50
			-	-	6	6	15		100	
									TOTAL	100

FOURTH SEMESTER

Sr.	Subject	Subject	Lecture	Tutorial	P/D	Total	Credits	External Marks	Internal Marks	Total
1	4MCCP	SEMINAR AND DISSERTATION	-	-	12	12	30	200	100	300
									TOTAL	300
									GRAND TOTAL	1600

Semester III

Seminar : Seminar to be delivered on work completed during third semester. 50 internal marks out of 100 will be assessed by a Committee consisting of Head of Department, dissertation guide and subject expert appointed by Principal of the College / Head of University Department. Remaining 50 internal marks will be given by guide based on performance.

Dissertation : Title of the dissertation work to be submitted to the University on or before 15th Sept. (for regular examination) and 15th of February (for supplementary exam.).

Semester IV

Seminar : to be delivered on the complete work of dissertation. 50 internal marks out of 100 will be assessed by a Committee consisting of Head of Department, dissertation guide and subject expert appointed by Principal of the College / Head of University Department. Remaining 50 internal marks will be given by guide based on performance.

Note : Thesis of dissertation work must be submitted to the University on or before 30th April (for regular exam.) and 30th November (for supplementary exam.) Thesis of Dissertation work be submitted with late fee to the University upto 31 May (for regular exam.) and 31st December (for supplementary exam.). The late fee shall be charged as in case of Examination form.

Notes :

1. Student should fill the examination form in the beginning of 3rd semester jointly for 3rd & 4th semester.
2. Single marksheet for 3rd & 4th semester together will be given to the student.



HMB
Jr. Hemant M. Baradkar
 Principal
 Jagadamba College of Engineering &
 Technology, Arni Road, Kinhi, Yavatmal

SECOND SEMESTER

Sr. No.	Subject Code	Subject	Teaching Scheme					Examination Scheme									
			Hours/Week					Theory			Practical						
			Lecture	Tutorial	P/D	Total Hours/Week	Credits	Theory Duration of Paper (Hr.)	Max. Marks Theory Paper	Max. Marks College Assessment	Total	Min. Passing Marks Theory Paper	Max. Marks Subject	Max. Marks External	Max. Marks Internal	Total	Min. Passing Marks
1	2RMEF1/ 2RME1	Computer Communication Networks	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
2	2RMEF2/ 2RME2	Advanced Compiling Techniques	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
3	2RMEF3/ 4RME1	Real Time Systems	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
4	2RMEF4/ 4RME2	Elective	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
5	2RMEF5/ 4RME3	Technical Paper Writing	0	1	0	1	1	-	-	-	-	-	-	-	50	50	25
6	2RMEF6/ 2RME3	Seminar	0	1	0	1	1	-	-	-	-	-	-	-	50	50	25
7	2RMEF7/ 2RME4	Advanced Compiling Techniques-LAB.	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
8	2RMEF8/ 4RME4	Real Time Systems-LAB.	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
			16	2	4	22	20	400			200			600			
													TOTAL		600		

Elective : 1) MOBILE COMPUTING 2) NETWORK SECURITY 3) COMPUTER VISION AND IMAGE PROCESSING



H.M.R.
Dr. Hemant M. Baradkar
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**TWO YEAR POST GRADUATE DEGREE COURSE IN MASTER OF ENGINEERING (FULL-TIME)
COMPUTER SCIENCE & ENGINEERING
CREDIT GRADE SYSTEM
FIRST SEMESTER**

Sr. No.	Subject Code	Subject	Teaching Scheme					Examination Scheme									
			Hours/Week					Theory			Practical						
			Lecture	Tutorial	P/D	Total Hours/Week	Credits	Theory Duration of Paper (Hr)	Max. Marks Theory Paper	Max. Marks College Assessment	Total	Min. Passing Marks Theory Paper	Max. Marks Subject	Max. Marks External	Max. Marks Internal	Total	Min. Passing Marks
1	IRMEF1/ IRME1	Advanced Computer Architecture	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
2	IRMEF2/ IRME2	Algorithms	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
3	IRMEF3/ IRME3	Operating System Design	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
4	IRMEF4/ IRME1	Expert System Design	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
5	IRMEF5/ IRME2	Database Processing	4	0	0	4	4	3	80	20	100	40	50	-	-	-	-
6	IRMEF6/ IRME3	Expert System Design-LAB.	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
7	IRMEF7/ IRME4	Database Processing-LAB.	0	0	2	2	1	-	-	-	-	-	-	25	25	50	25
			20	0	4	24	22				500					100	
													TOTAL		600		




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THIRD SEMESTER

Sr.	Subject	Lecture	Tutorial	P/D	Total	Credits	Internal Marks	Total	Min. Passing Marks
1	3RMEF1 SEMINAR AND DISSERTATION	-	-	6	6	15	100	100	50
		-	-	6	6	15	100		
								TOTAL	100

FOURTH SEMESTER

Sr.	Subject	Lecture	Tutorial	P/D	Total	Credits	External Marks	Internal Marks	Total
1	4RMEF1 SEMINAR AND DISSERTATION	-	-	12	12	30	200	100	300
								TOTAL	300
								GRAND TOTAL	1600

Semester III

Seminar : Seminar to be delivered on work completed during third semester. 50 internal marks out of 100 will be assessed by a Committee consisting of Head of Department, dissertation guide and subject expert appointed by Principal of the College / Head of University Department. Remaining 50 internal marks will be given by guide based on performance.

Dissertation : Title of the dissertation work to be submitted to the University on or before 15th Sept. (for regular examination) and 15th of February (for supplementary exam.).

Semester IV


Seminar : to be delivered on the complete work of dissertation. 50 internal marks out of 100 will be assessed by a Committee consisting of Head of Department, dissertation guide and subject expert appointed by Principal of the College / Head of University Department. Remaining 50 internal marks will be given by guide based on performance.

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