

# COURSE STRUCTURE AND SYLLABUS

For

## CIVIL ENGINEERING

*(Applicable for batches admitted from 2016-2017)*



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA  
KAKINADA - 533 003, Andhra Pradesh, India

  
Director & Principal  
Miracle Educational Society  
Group of Institutions, Bhogapuram  
Vizianagaram Dist.-533216.A.P.

## I Year - I Semester

GE

S. No.	Subjects	L	T	P	Credits
1-HS	English - I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-ES	Engineering Chemistry	4	--	--	3
4-BS	Engineering Mechanics	4	2	--	3
5-BS	Computer Programming	4	--	--	3
6-ES	Environmental Studies	4	--	--	3
7-HS	Engineering /Applied Chemistry Laboratory	--	--	3	2
8-BS	English - Communication Skills Lab - I	--	--	3	2
9-ES	Computer Programming Lab	--	--	3	2
<b>Total Credits</b>					<b>24</b>

## I Year - II Semester

S. No.	Subjects	L	T	P	Credits
1-HS	English - II	4	--	--	3
2-BS	Mathematics - II (Mathematical Methods)	4	--	--	3
3-BS	Mathematics - III	4	--	--	3
4-ES	Engineering Physics	4	--	--	3
5-HS	Elements of Mechanical Engineering	4	--	--	3
6-ES	Engineering Drawing	4	--	--	3
7-BS	English - Communication Skills Lab - II	--	--	3	2
8-HS	Engineering /Applied Physics Lab	--	--	3	2
9-ES	Engineering / Applied Physics - Virtual Labs - Assignments	--	--	2	--
10	Engg. Workshop & IT Workshop	--	--	3	2
<b>Total Credits</b>					<b>24</b>


Director &  
Miracle Education  
Group of Institutions, Btl.  
Vizianagaram Dist.-533210, A.P.

## II Year - I Semester

S. No.	Subjects	L	T	P	Credits
		4	--	--	3
1	Probability & Statistics	4	--	--	3
2	Basic Electrical & Electronics Engineering	4	--	--	3
3	Strength of Materials-I	4	--	--	3
4	Building Materials & Construction	4	--	--	3
5	Surveying	4	--	--	3
6	Fluid Mechanics	--	--	3	2
7	Survey Field Work - I	--	--	3	2
8	Strength of Materials Lab	--	--	3	--
MC	Professional Ethics & Human Values	--	3	--	--
<b>Total Credits</b>					<b>22</b>

## II Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Building Planning & Drawing	4	--	--	3
2	Strength of Materials - II	4	--	--	3
3	Hydraulics & Hydraulic Machinery	4	--	--	3
4	Concrete Technology	4	--	--	3
5	Structural Analysis - I	4	--	--	3
6	Transportation Engineering - I	4	--	--	3
7	PM & HM Lab	--	--	3	2
8	Survey Field Work - II	--	--	3	2
MC	Managerial Economics & Financial Analysis	2	--	--	--
<b>Total Credits</b>					<b>22</b>

  
 Director & Principal  
 Miracle Educational Society  
 Group of Institutions, Bhogapuram  
 Bhogapuram Dist.-535216, A.P.

### III Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Management Science	4	--	--	3
2	Engineering Geology	4	--	--	3
3	Structural Analysis -II	4	--	--	3
4	Design & Drawing of Reinforced Concrete Structures	4	2	--	3
5	Transportation Engineering - II	4	--	--	3
6	Concrete Technology Lab	--	--	3	2
7	Geology Lab	--	--	3	2
8	Transportation Engineering Lab	--	--	3	2
<b>Total Credits</b>					21

### III Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Design & Drawing of Steel Structures	4	2	--	3
2	Geotechnical Engineering - I	4	--	--	3
3	Environmental Engineering -I	4	--	--	3
4	Water Resource Engineering -I	4	--	--	3
5	<b>OPEN ELECTIVE</b>	4	--	--	3
	i. Electronic Instrumentation				
	ii. Data Base Management Systems				
	iii. Alternative Energy Sources				
	iv. Waste water Management				
	v. Fundamentals of Liquefied Natural Gas				
vi. Green Fuel Technologies					
6	Geotechnical Engineering Lab	--	--	3	2
7	Environmental Engineering Lab	--	--	3	2
8	Computer Aided Engineering Lab	--	--	3	2
<b>Total Credits</b>					21

  
 Director & Principal  
 Miracle Educational Group of Institutions  
 Mirjanagaram Dist-533216, Andhra Pradesh

### IV Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Environmental Engineering - II	4	--	--	3
2	Water Resource Engineering - II	4	--	--	3
3	Geotechnical Engineering - II	4	--	--	3
4	Remote Sensing & GIS Applications	4	--	--	3
5	<b>Elective I</b> i. Finite Element Methods ii. Ground Improvement Techniques iii. Air Pollution & Control iv. Urban Hydrology v. Traffic Engineering	4	--	--	3
6	<b>Elective II</b> i. Advanced Structural Engineering ii. Advanced Foundation Engineering iii. Environmental Impact Assessment & Management iv. Ground Water Development v. Pavement Analysis and Design	4	--	--	3
7	IPR & Patents	--	2	--	--
8	GIS & CAD Lab	--	--	2	2
9	Irrigation Design & Drawing	--	--	2	2
<b>Total Credits</b>					<b>22</b>

### IV Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Estimation Specification & Contracts	4	--	--	3
2	Construction Technology & Management	4	--	--	3
3	Prestressed Concrete	4	--	--	3
4	<b>Elective III</b> i. Bridge Engineering ii. Soil Dynamics and Foundations iii. Solid and Hazardous Waste Management iv. Water Resources Systems Planning v. Urban Transportation Planning Engg	4	--	--	3
5	Seminar on Internship Project	--	3	--	2
6	Project	--	--	--	10
<b>Total Credits</b>					<b>24</b>

Total Course Credits = 48+44 + 42 + 46 = 180

Director & Pr.  
Miracle Educational  
Group of Institutions, BML  
Vizianagaram Dist.-533210

**COURSE STRUCTURE AND SYLLABUS**  
For  
**ELECTRICAL AND ELECTRONICS ENGINEERING**  
*(Applicable for batches admitted from 2016-2017)*



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA**  
**KAKINADA - 533 003, Andhra Pradesh, India**

*Am*  
Principal  
Miracle Education Group of Institutions  
Vizianagaram Dist. 533216, A.P.

EEE

## I Year - I Semester

S. No	Subjects	L	T	P	Credits
1-HS	English - I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-ES	Applied Chemistry	4	--	--	3
4-BS	Engineering Mechanics	4	--	--	3
5-BS	Computer Programming	4	--	--	3
6-ES	Environmental Studies	4	--	--	3
7-HS	Applied / Engineering Chemistry Laboratory	--	--	3	2
8-BS	English- Communication Skills Laboratory - I	--	--	3	2
9-ES	Computer Programming Laboratory	--	--	3	2
Total Credits					24

## I Year - II Semester

S. No	Subjects	L	T	P	Credits
1-HS	English - II	4	--	--	3
2-BS	Mathematics - II (Mathematical Methods)	4	--	--	3
3-BS	Mathematics - III	4	--	--	3
4-ES	Applied Physics	4	--	--	3
5	Electrical Circuit Analysis - I	4	--	--	3
6-ES	Engineering Drawing	4	--	--	3
7-BS	English - Communication Skills Laboratory - II	--	--	3	2
8-HS	Applied / Engineering Physics Laboratory	--	--	3	2
9-ES	Applied / Engineering Physics - Virtual Labs - Assignments	--	--	2	--
10	Eugg. Workshop & IT Workshop	--	--	3	2
Total Credits					24

Director & Princi:  
Miracle Educational's  
Group of Institutions, Bhojapur,  
W. J. Anagaram Dist.-533216.A.R.

## II Year – I Semester

S. No	Subjects	L	T	P	Cred
1	Electrical Circuit Analysis - II	4	--	--	3
2	Electrical Machines-I	4	--	--	3
3	Basic Electronics and Devices	4	--	--	3
4	Electro Magnetic Fields	4	--	--	3
5	Thermal and Hydro Prime Movers	4	--	--	3
6	Managerial Economics & Financial Analysis	4	--	3	2
7	Thermal and Hydro Laboratory	--	--	3	2
8	Electrical Circuits Laboratory	--	--	3	2
<b>Total Credits</b>					<b>22</b>

## II Year – II Semester

S. No	Subjects	L	T	P	Credits
1	Electrical Measurements	4	--	--	3
2	Electrical Machines-II	4	--	--	3
3	Switching Theory and Logic Design	4	--	--	3
4	Control Systems	4	--	--	3
5	Power Systems-I	4	--	--	3
6	Management Science	4	--	--	3
7	Electrical Machines -I Laboratory	--	--	3	2
8	Electronic Devices & Circuits Laboratory	--	--	3	2
<b>Total Credits</b>					<b>22</b>

  
 Director & Principal  
 Miracle Educational Society  
 Group of Institutions, Bhi  
 Wagharam Dist.-533210



### III Year - I Semester

S. No	Subjects	L	T	P	Credits
1	Power Systems-II	4	--	--	3
2	Renewable Energy Sources	4	--	--	3
3	Signals and Systems	4	--	--	3
4	Pulse & Digital Circuits	4	--	--	3
5	Power Electronics	4	--	--	3
6	Electrical Machines-II Laboratory	--	--	3	2
7	Control Systems Laboratory	--	--	3	2
8	Electrical Measurements Laboratory	--	--	3	2
9-MC	IPR & Patents	--	2	--	--
<b>Total Credits</b>					<b>21</b>

### III Year - II Semester

S. No	Subjects	L	T	P	Credits
1	Power Electronic Controllers & Drives	4	--	--	3
2	Power System Analysis	4	--	--	3
3	Micro Processors and Micro controllers	4	--	--	3
4	Data Structures	4	--	--	3
5	<b>Open Elective</b>	4	--	--	3
	<b>1. Unix and Shell Programming</b>				
	<b>2. OOPS Through JAVA</b>				
	<b>3. VLSI Design</b>				
	<b>4. Robotics</b>				
	<b>5. Neural Networks &amp; Fuzzy Logic</b>				
<b>6. Energy Audit and Conservation &amp; Management</b>					
6	Power Electronics Laboratory	--	--	3	2
7	Microprocessors & Microcontrollers Laboratory	--	--	3	2
8	Data Structures Laboratory	--	--	3	2
9-MC	Professional Ethics & Human Values	--	3	--	--
<b>Total Credits</b>					<b>21</b>

  
**Director & Principal**  
 Miracle Educational Society  
 Group of Institutions, Bhoranur  
 Miranagaram Dist.-533216.A.

#### IV Year - I Semester

S. No	Subjects	L	T	P	Credits
1	Utilization of Electrical Energy	4	--	--	3
2	Linear IC Applications	4	--	--	3
3	Power System Operation & Control	4	--	--	3
4	Switchgear and Protection	4	--	--	3
5	<b>Elective - I:</b>	4	--	--	3
	1. Electrical Machine Modeling and Analysis				
	2. Advanced Control Systems				
	3. Programmable Logic Controllers & Applications				
4. Instrumentation					
6	<b>Elective - II:</b>	4	--	--	3
	1. Optimization Techniques				
	2. Electric Power Quality				
3. Special Electrical Machines					
7	Electrical Simulation Laboratory	--	--	2	2
8	Power Systems & Simulation Laboratory	--	--	2	2
<b>Total Credits</b>					<b>22</b>

#### IV Year - II Semester

S. No	Subjects	L	T	P	Credits
1	Digital Control Systems	4	--	--	3
2	HVDC Transmission	4	--	--	3
3	Electrical Distribution Systems	4	--	--	3
4	<b>Elective - III:</b>	4	--	--	3
	1. High Voltage Engineering				
	2. Flexible Alternating Current Transmission Systems R1642028				
3. Power System Reforms					
5	Seminar	--	3	--	2
6	Project	--	--	--	10
<b>Total Credits</b>					<b>24</b>

  
 Director & Principal  
 Sri Sri Educational Society  
 of Institutions, Bhogapuram  
 Bhogapuram Dist.-533216, A.P.

# COURSE STRUCTURE AND SYLLABUS

For

## MECHANICAL ENGINEERING

*(Applicable for batches admitted from 2016-2017)*



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA  
KAKINADA - 533 003, Andhra Pradesh, India

  
Director & Principal  
Miracle Educational S  
Group of Institutions, Bhc  
Vizianagaram Dist.-533216.A.P.

## I Year - I Semester

MECH

S. No.	Subjects	L	T	P	Credits
1-HS	English - I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-ES	Engineering Chemistry	4	--	--	3
4-BS	Engineering Mechanics	4	--	--	3
5-BS	Computer Programming	4	--	--	3
6-ES	Environmental Studies	4	--	--	3
7-HS	Engineering/Applied Chemistry Laboratory	--	--	3	2
8-BS	English - Communication Skills Lab - I	--	--	3	2
9-ES	Computer Programming Lab	--	--	3	2
<b>Total Credits</b>					<b>24</b>

## I Year - II Semester

S. No.	Subjects	L	T	P	Credits
1-HS	English - II	4	--	--	3
2-BS	Mathematics - II (Mathematical Methods)	4	--	--	3
3-BS	Mathematics - III	4	--	--	3
4-ES	Engineering Physics	4	--	--	3
5-HS	Basic Electrical and Electronics Engineering	4	--	--	3
6-ES	Engineering Drawing	4	--	--	3
7-BS	English - Communication Skills Lab - II	--	--	3	2
8-HS	Engineering /Applied Physics Lab	--	--	3	2
9-ES	Engineering /Applied Physics - Virtual Labs - Assignments	--	--	2	--
10	Engg. Workshop & IT Workshop	--	--	3	2
<b>Total Credits</b>					<b>24</b>

  
 Director & Principal  
 Miracle Educational Society  
 Group of Institutions, Bony - Puram  
 Melanagar Dist.-533216, A.P.

### II Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Metallurgy & Materials Science	4	--	--	3
2	Mechanics of Solids	4	--	--	3
3	Thermodynamics	4	--	--	3
4	Managerial Economics & Financial Analysis	4	--	--	3
5	Fluid Mechanics & Hydraulic Machines	4	--	--	3
6	Computer Aided Engineering Drawing Practice	3	3	--	3
7	Electrical & Electronics Engg. Lab	--	--	3	2
8	Mechanics of Solids & Metallurgy Lab	--	--	3	2
<b>Total Credits</b>					<b>22</b>

### II Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Kinematics of Machinery	4	--	--	3
2	Thermal Engineering -I	4	--	--	3
3	Production Technology	4	--	--	3
4	Design of Machine Members -I	4	--	--	3
5	Machine Drawing	3	3	--	3
6	Industrial Engineering and Management	4	--	--	3
7	Fluid Mechanics & Hydraulic Machines Lab	--	--	3	2
8	Production Technology Lab	--	--	3	2
<b>Total Credits</b>					<b>22</b>

  
 Director & Principal  
 Miracle Educational Society  
 Group of Institutions, Bhuvanapuram  
 Vizianagaram Dist. - 535 240, A.P.

AMS

### III Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Dynamics of Machinery	4	--	--	3
2	Metal Cutting & Machine Tools	4	--	--	3
3	Design of Machine Members-II	4	--	--	3
4	Operations Research	4	--	--	3
5	Thermal Engineering -II	4	--	--	3
6	Theory of Machines Lab	--	--	3	2
7	Machine Tools Lab	--	--	3	2
8	Thermal Engineering Lab	--	--	3	2
9	IPR & Patents	--	2	--	--
<b>Total Credits</b>					<b>21</b>

### III YEAR - II Semester

S. No.	Subjects	L	T	P	Credits
1	Metrology	4	--	--	3
2	Instrumentation & Control Systems	4	--	--	3
3	Refrigeration & Air-conditioning	4	--	--	3
4	Heat Transfer	4	--	--	3
5	<b>OPEN ELECTIVE</b> 1. Entrepreneurship 2. Data Base Management System 3. Waste Water Management 4. Computer Graphics 5. Industrial Robotics 6. Green Engineering Systems	4	--	--	3
6	Heat Transfer Lab	--	--	3	2
7	Metrology & Instrumentation Lab	--	--	3	2
8	Computational Fluid Dynamics Lab	--	--	3	2
9MC	Professional Ethics & Human Values	--	3	--	--
<b>Total Credits</b>					<b>21</b>

Director & Princi.  
Miracle Educational Society  
Group of Institutions, Bhogapuram  
Vidyanagar Dist.-532216.A.P.

### IV Year - I Semester

S. NO	Subjects	L	T	P	Credits
1	Mechatronics	4	--	--	3
2	CAD/CAM	4	--	--	3
3	Finite Element Methods	4	--	--	3
4	Power Plant Engineering	4	--	--	3
5	<b>Elective I</b> 1. Computational Fluid Dynamics 2. Condition Monitoring 3. Additive Manufacturing	4	--	--	3
6	<b>Elective II</b> 1. Advanced Materials 2. Design for Manufacture 3. Gas Dynamics & Jet Propulsion	4	--	--	3
7	CAD/CAM Lab	--	--	2	2
8	Mechatronics Lab	--	--	2	2
<b>Total Credits</b>					<b>22</b>

### IV Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Production Planning and Control	4	--	--	3
T 2	Unconventional Machining Processes	4	--	--	3
3	Automobile Engineering	4	--	--	3
4	<b>Elective III</b> 1. Thermal Equipment Design 2. Non Destructive Evaluation 3. Quality and Reliability Engineering	4	--	--	3
5	Seminar	--	3	--	2
6	Project	--	--	--	10
<b>Total Credits</b>					<b>24</b>

Total Course Credits = 48+44 + 42 + 46 = 180

Director & Princ.,  
Miracle Educational S...  
Group of Institutions, Bho...  
Vizianagaram Dist.-533216, A.P.

# COURSE STRUCTURE AND SYLLABUS

For

## ELECTRONICS AND COMMUNICATION ENGINEERING

*(Applicable for batches admitted from 2016-2017)*



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA  
KAKINADA - 533 003, Andhra Pradesh, India

  
Director & Principal  
Miracle Educational Society  
Group of Institutions, Bhogapuram  
Bhogapuram Dist.-533216.A.P.



## I Year - I Semester

S.No.	Subjects	L	T	P	Credits
1-HS	English - I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-ES	Mathematics -II (Numerical Methods and Complex Variables)	4	--	--	3
4-BS	Applied Physics	4	--	--	3
5-ES	Computer Programming	4	--	--	3
6-ES	Engineering Drawing	1	--	3	3
7-HS	English - Communication Skills Lab -I	--	--	3	2
8-BS	Applied / Engineering Physics Laboratory	--	--	3	2
9-BS	Applied / Engineering Physics - Virtual Labs - Assignments	--	--	2	--
10-ES	Engineering Workshop & IT Workshop	--	--	3	2
<b>Total Credits</b>					<b>24</b>

## I Year - II Semester

S.No.	Subjects	L	T	P	Credits
1-HS	English - II	4	--	--	3
2-HS	Mathematics -III	4	--	--	3
3-BS	Applied Chemistry	4	--	--	3
4-ES	Electrical and Mechanical Technology	4	--	--	3
5-HS	Environmental Studies	4	--	--	3
6-ES	Data Structures	4	--	--	3
7-BS	Applied / Engineering Chemistry Laboratory	--	--	3	2
8-HS	English - Communication Skills Lab -2	--	--	3	2
9-ES	Computer Programming Lab	--	--	3	2
<b>Total Credits</b>					<b>24</b>

  
 Director & Principal  
 Miracle Educational Society  
 Group of Institutions, Bhogapuram  
 V. Anandaram Dist.-533216, A.P.

## II Year - I Semester

S.No.	Subjects	L	T	P	Credits
1	Electronic Devices and Circuits	4	--	--	3
2	Switching Theory and Logic Design	4	--	--	3
3	Signals and Systems	4	--	--	3
4	Network Analysis	4	--	--	3
5	Random Variables and Stochastic Process	4	--	--	2
6	Managerial Economics & Financial Analysis	--	--	3	2
7	Electronic Devices and Circuits Lab	--	--	3	2
8	Networks & Electrical Technology Lab	--	--	--	22
<b>Total Credits</b>					

## II Year - II Semester

S.No.	Subjects	L	T	P	Credits
1	Electronic Circuit Analysis	4	--	--	3
2	Control Systems	4	--	--	3
3	Electromagnetic Waves and Transmission Lines	4	--	--	3
4	Analog Communications	4	--	--	3
5	Pulse and Digital Circuits	4	--	--	3
6	Management Science	4	--	--	2
7	Electronic Circuit Analysis Lab	--	--	3	2
8	Analog Communications Lab	--	--	3	2
<b>Total Credits</b>					22

  
 Director & Head  
 Miracle Education  
 Group of Institutions, Bhoys  
 Vizianagaram Dist.-533216/A

### III Year - I Semester

S.No.	Subjects	L	T	P	Credits
1	Computer Architecture and Organization	4	--	--	3
2	Linear I C Applications	4	--	--	3
3	Digital I C Applications	4	--	--	3
4	Digital Communications	4	--	--	3
5	Antenna and Wave Propagation	4	--	--	3
6	Pulse and Digital Circuits Lab	--	--	3	2
7	Linear I C Applications Lab	--	--	3	2
8	Digital I C Applications Lab	--	--	3	2
MC	Professional Ethics & Human Values	--	3	--	--
<b>Total Credits</b>					<b>21</b>

### III Year - II Semester

S.No.	Subjects	L	T	P	Credits
1	Micro Processors & Micro Controllers	4	--	--	3
2	Micro Wave Engineering	4	--	--	3
3	VLSI Design	4	--	--	3
4	Digital Signal Processing	4	--	--	3
5	<b>OPEN ELECTIVE</b> 1. OOPs through Java 2. Data Mining 3. Industrial Robotics 4. Power Electronics 5. Bio-Medical Engineering 6. Artificial Neural Networks	4	--	--	3
6	Micro Processors & Micro Controllers Lab	--	--	3	2
7	VLSI Lab	--	--	3	2
8	Digital Communications Lab	--	--	3	2
MC	IPR & Patents	--	2	--	--
<b>Total Credits</b>					<b>21</b>

  
 Director of Principal  
 State Education Society  
 Group of Institutions, Bangalore  
 Dist. - 533216, A.P.

## IV Year - I Semester

S.No.	Subjects	L	T	P	Credits
1	Radar Systems	4	--	--	3
2	Digital Image Processing	4	--	--	3
3	Computer Networks	4	--	--	3
4	Optical Communications	4	--	--	3
5	<b>Elective I</b>	4	--	--	3
	1. TV Engineering				
	2. Electronic Switching Systems				
	3. System Design through Verilog				
6	<b>Elective II</b>	4	--	--	3
	1. Embedded Systems				
	2. Analog IC Design				
	3. Network Security & Cryptography				
7	Micro Wave Engineering & Optical Lab	--	--	2	2
8	Digital Signal Processing Lab	--	--	2	2
<b>Total Credits</b>					<b>22</b>

## IV Year - II Semester

S.No.	Subjects	L	T	P	Credits
1	Cellular Mobile Communications	4	--	--	3
2	Electronic Measurements and Instrumentation	4	--	--	3
3	Satellite Communications	4	--	--	3
4	<b>Elective III</b>	4	--	--	3
	1. Wireless sensors & Networks				
	2. Digital IC Design				
	3. Operating Systems				
5	Seminar	--	3	--	2
6	Project	--	--	--	10
<b>Total Credits</b>					<b>24</b>

Total Course Credits = 48+44 + 42 + 46 = 180

  
 Director & Principal  
 Miracle Educational Society  
 Group of Institutions, Bhogapuram  
 Villupuram Dist.-533210, A.P.

# COURSE STRUCTURE AND SYLLABUS

For

## COMPUTER SCIENCE AND ENGINEERING

*(Applicable for batches admitted from 2016-2017)*



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA  
KAKINADA - 533 003, Andhra Pradesh, India

Director & Principal  
Miracle Educational Society  
Group of Institutions, Bhogapuram  
Vijayanagara Dist.-533216.A.P.

## I Year - I Semester

CSE

S. No.	Subjects	L	T	P	Credits
1-HS	English - I	4	--	--	3
2-BS	Mathematics - I	4	--	--	3
3-BS	Mathematics - II (Mathematical Methods)	4	--	--	3
4-BS	Applied Physics	4	--	--	3
5	Computer Programming	4	--	--	3
6-ES	Engineering Drawing	4	--	--	3
7-HS	English - Communication Skills Lab - 1	--	--	3	2
8-BS	Applied / Engineering Physics Lab	--	--	3	2
9-ES	Applied / Engineering Physics - Virtual Labs - Assignments	--	--	2	--
10	Computer Programming Lab	--	--	3	2
<b>Total Credits</b>					<b>24</b>

## I Year - II SEMESTER

S. No.	Subjects	L	T	P	Credits
1-HS	English - II	4	--	--	3
2-BS	Mathematics - III	4	--	--	3
3-BS	Applied Chemistry	4	--	--	3
4	Object Oriented Programming through C++	4	--	--	3
5-HS	Environmental Studies	4	--	--	3
6-ES	Engineering Mechanics	4	--	--	3
7-BS	Applied / Engineering Chemistry Laboratory	--	--	3	2
8-HS	English - Communication Skills Lab - 2	--	--	3	2
9	Object Oriented Programming Lab	--	--	3	2
<b>Total Credits</b>					<b>24</b>

  
 Director & Principal  
 Miracle Educational S.  
 Group of Institutions, Bhojpur  
 Jhansi, Jhansi Dist - 53216, A.P.

## II Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Statistics with R Programming	4	--	--	3
2	Mathematical Foundations of Computer Science	4	--	--	3
3	Digital Logic Design	4	--	--	3
4	Python Programming	4	--	--	3
5	Data Structures through C++	4	--	3	2
6	Computer Graphics	--	--	3	2
7	Data Structures through C++Lab	--	--	3	2
8	Python Programming Lab	--	--		22
<b>Total Credits</b>					

## II Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Software Engineering	4	--	--	3
2	Java Programming	4	--	--	3
3	Advanced Data Structures	4	--	--	3
4	Computer Organization	4	--	--	3
5	Formal Languages and Automata Theory	4	--	--	3
6	Principles of Programming Languages	4	--	--	3
7	Advanced Data Structures Lab	--	--	3	2
8	Java Programming Lab	--	--	3	2
<b>Total Credits</b>					22

  
 Director & Principal  
 Educational Society  
 of Institutions, Bhe  
 anagaram Dist. - 583216, A.P.

### III Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Compiler Design	4	--	--	3
2	Unix Programming	4	--	--	3
3	Object Oriented Analysis and Design using UML	4	--	--	3
4	Database Management Systems	4	--	--	3
5	Operating Systems	4	--	--	3
6	Unified Modeling Lab	--	--	3	2
7	Operating System & Linux Programming Lab	--	--	3	2
8	Database Management System Lab	--	--	3	2
MC	Professional Ethics & Human Values	--	3	--	--
<b>Total Credits</b>					<b>21</b>

### III Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Computer Networks	4	2	--	3
2	Data Warehousing and Mining	4	--	--	3
3	Design and Analysis of Algorithms	4	--	--	3
4	Software Testing Methodologies	4	--	--	3
5	<b>Open Elective:</b> i. Artificial Intelligence ii. Internet of Things iii. Cyber Security iv. Digital Signal Processing v. Embedded Systems vi. Robotics	4	--	--	3
6	Network Programming Lab	--	--	3	2
7	Software Testing Lab	--	--	3	2
8	Data Warehousing and Mining Lab	--	--	3	2
9	IPR & Patents	--	2	--	--
<b>Total Credits</b>					<b>21</b>

  
**Director & Principal**  
 Miracle Educational Society  
 Group of Institutions, Bhogapuram  
 Madhavapuram Dist.-533216, A.P.



### IV Year - I Semester

S. No.	Subjects	L	T	P	Credits
1	Cryptography and Network Security	4	--	--	3
2	Software Architecture & Design Patterns	4	--	--	3
3	Web Technologies	4	--	--	3
4- HS	Managerial Economics and Financial Analysis	4	--	--	3
5	<b>Elective-I</b>	4	--	--	3
	i. Big Data Analytics				
	ii. Information Retrieval Systems				
6	<b>Elective-II</b>	4	--	--	3
	i. Cloud Computing				
	ii. Software Project Management				
7	Software Architecture & Design Patterns Lab	--	--	3	2
8	Web Technologies Lab	--	--	3	2
<b>Total Credits</b>					<b>22</b>

### IV Year - II Semester

S. No.	Subjects	L	T	P	Credits
1	Distributed Systems	4	--	--	3
2- HS	Management Science	4	--	--	3
3	Machine Learning	4	--	--	3
4	<b>Elective-III</b>	4	--	--	3
	i. Concurrent and Parallel Programming				
	ii. Artificial Neural Networks				
5	iii. Operations Research	--	3	--	2
5	Seminar	--	--	--	10
6	Project	<b>Total Credits</b>			<b>24</b>

Total Course Credits =  $48 + 44 + 42 + 46 = 180$

  
 Director & Principal  
 Miracle Educational Society  
 Group of Institutions, Bhogapuram  
 Vellore, Tamil Nadu Dist.-533216, A.P.

# ACADEMIC REGULATIONS & COURSE STRUCTURE

For

**MBA (Regular)**

*(Applicable for batches admitted from 2016-2017)*



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA**  
**KAKINADA - 533 003, Andhra Pradesh, India**

  
Director & Principal  
Miracle Educational Society  
of Institutions, Bhog. ...  
Miracle Education Dist-533216, A.P.

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA: KAKINADA**  
**School of Management Studies**  
**Course Structure MBA (Regular) 2016-2017**  
 (Effective for the students admitted into first year from the academic year 2016-2017)

**Semester - I**

Subject	Title	Marks	Credits
C-101	Principles of Management	100	3
C-102	Managerial Economics	100	3
C-103	Accounting for Managers	100	3
C-104	Managerial Communication & Soft skills	100	3
C-105	Business Environment	100	3
C-106	Quantitative Analysis for Business Decision	100	3
C-107	IT - LAB	100	3

**Semester - II**

Subject	Title	Marks	Credits
C-201	Financial Management	100	3
C-202	Human Resource Management	100	3
C-203	Marketing Management	100	3
C-204	Production and Operations Management	100	3
C-205	Business Research Methods	100	3
C-206	Organizational Behavior	100	3
C-207	Mini Project *	50	2
	Seminar on Mini Project	50	2

**Semester - III**

Subject	Title	Marks	Credits
C-301	Strategic Management	100	3
C-302	Legal Aspects of Business	100	3
C-303	Business Ethics & Corporate Governance	100	3
E-301	Elective - 1	100	3
E-302	Elective - 2	100	3
E-303	Elective - 3	100	3
E-304	Elective - 4	100	3

**Semester - IV**

Subject	Title	Marks	Credits
C-401	Logistic and Supply Chain Management	100	3
C-402	Entrepreneurship Development	100	3
E-401	Elective - 5	100	3
E-402	Elective - 6	100	3
E-403	Elective - 7	100	3
E-404	Elective - 8	100	3
	Major Project & Comprehensive Viva	Grade	8
<b>Total Marks / Credits</b>		<b>2700</b>	<b>90</b>

Elective: The student has to choose any **ONE** Specialization from the following areas in the beginning of III Semester

*(Signature)*  
 Director & Principal  
 Miracle Educational Society  
 Group of Institutions, Bhogavolu  
 Vijayanagara Dist.-533216, A.P.

### III SEMESTER

#### HR

S. no	SUBJECT TITLE
1	Leadership Management
2	Compensation and Reward Management
3	Performance Management
4	Strategic Human Resource Management

#### FINANCE

S. no	SUBJECT TITLE
1	Security Analysis & Portfolio Management
2	Banking and Insurance Management
3	Advance Management Accounting
4	Strategic Financial Management

#### MARKETING

S. no	SUBJECT TITLE
1	Consumer Behavior
2	Retail Management
3	Customer Relationship Management
4	Strategic Marketing Management

#### SYSTEMS

S. no	SUBJECT TITLE
1	E-Business
2	RDBMS
3	Web Designing
4	System Analysis & Design

  
Director & Principal  
Miracle Educational Society  
Group of Institutions, Bhogapuram  
M. Chandrababu Naidu Road, Bhogapuram Dist.-533216, A.P.

## IV SEMESTER

### HR

	SUBJECT TITLE
Elective-5	Organizational Development & Change Management
Elective-6	Global HRM
Elective-7	Labor Welfare & Legislation
Elective-8	Management of Industrial Relations

### FINANCE

	SUBJECT TITLE
Elective-5	Financial Markets and Services
Elective-6	Global Financial Management
Elective-7	Risk Management
Elective-8	Tax Management

### MARKETING

	SUBJECT TITLE
Elective-5	Services Marketing
Elective-6	Promotional Distribution Management
Elective-7	Global Marketing Management
Elective-8	Supply Chain Management

### SYSTEMS

	SUBJECT TITLE
Elective-5	Business Intelligence
Elective-6	Enterprise Resource Planning
Elective-7	Cyber Laws & Security
Elective-8	Information Systems Audit

#### \*Mini Project Report

The student should undergo survey based fieldwork under the guidance of Internal Faculty and submit the report before the completion of II Semester End Examinations.

  
Director & Principal  
Miracle Educational Society  
Group of Institutions, Bhogalapuram  
Vijayanagara Dist.-532216.A.P.

# ACADEMIC REGULATIONS & COURSE STRUCTURE

For

**MCA**

*(Applicable for batches admitted from 2016-2017)*



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA**  
**KAKINADA - 533 003, Andhra Pradesh, India**

*A-1*  
Director - Principal  
Miracle Educational Society  
Group of Institutions, Bhega Garim  
Vijayanagaram Dist - 533216, A.P.

### I Semester

S. No.	Subject	T	P
1	C PROGRAMMING AND DATA STRUCTURES	4	-
2	COMPUTER ORGANIZATION	4	-
3	DISCRETE MATHEMATICAL STRUCTURES AND GRAPH THEORY	4	-
4	STATISTICAL PROGRAMMING WITH R	4	-
5	ACCOUNTING AND FINANCIAL MANAGEMENT		3
6	ENGLISH LANGUAGE COMMUNICATION SKILLS LAB	-	3
7	C PROGRAMMING LAB	-	3
8	STATISTICAL PROGRAMMING WITH R LAB	-	3

### II Semester

S. No.	Subject	T	P
1	OOPS THROUGH JAVA	4	-
2	OPERATING SYSTEMS	4	-
3	SOFTWARE ENGINEERING	4	-
4	OPTIMIZATION TECHNIQUES	4	-
5	COMPUTER GRAPHICS	4	-
6	OOPS THROUGH JAVA LAB	-	3
7	DATA STRUCTURES LAB	-	3
8	OPERATING SYSTEM & COMPUTER GRAPHICS LAB	-	3

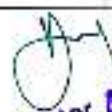
  
 Director & Principal  
 Miracle Educational Society  
 Group of Institutions, Bhoyanpalem  
 Vijayanagara Dist.-533216, A.P.

### III Semester

S. No.	Subject	T	P
1	DATA BASE MANAGEMENT SYSTEMS	4	-
2	COMPUTER NETWORKS	4	-
3	UNIX PROGRAMMING	4	-
4	MANAGEMENT INFORMATION SYSTEM	4	-
5	DESIGN AND ANALYSIS OF ALGORITHMS	4	-
6	DATA BASE MANAGEMENT SYSTEMS LAB	-	3
7	UNIX PROGRAMMING LAB	-	3
8	COMPUTER NETWORKS LAB		3

### IV Semester

S. No.	SUBJECT	T	P
1	OBJECT ORIENTED ANALYSIS AND DESIGN	4	-
2	ADVANCED JAVA & WEB TECHNOLOGIES	4	-
3	DATA WAREHOUSING AND MINING	4	-
4	<b>ELECTIVE-I</b> MCA16.4.4.1 MOBILE COMPUTING MCA16.4.4.2 HUMAN COMPUTER INTERACTION MCA16.4.4.3 CLOUD COMPUTING	4	-
5	<b>ELECTIVE-II</b> MCA16.4.5.1 SOFTWARE PROJECT MANAGEMENT MCA16.4.5.2 ARTIFICIAL INTELLIGENCE MCA16.4.5.3 EMBEDDED SYSTEMS	4	-
6	ADVANCED JAVA & WEB TECHNOLOGIES LAB	-	3
7	DATA WAREHOUSING AND MINING LAB	-	3
8	OBJECT ORIENTED ANALYSIS AND DESIGN LAB		

  
 Director & Principal  
 Miracle Educational Society  
 Group of Institutions, Bhogapuram  
 Villanur, in Dist.-533216, A.P.



## V Semester

S. No.	SUBJECT	T	P
1	BIG DATA ANALYTICS	4	-
2	NETWORK PROGRAMMING	4	-
3	PYTHON PROGRAMMING	4	-
4	ELECTIVE-III MCA16.5.4.1 CYBER SECURITY MCA16.5.4.2 COMPUTER FORENSICS MCA16.5.4.3 E-COMMERCE	4	-
5	ELECTIVE-IV MCA16.5.5.1 INTERNET OF THINGS MCA16.5.5.2 MULTIMEDIA APPLICATION DEVELOPMENT MCA16.5.5.3 SOFTWARE TESTING METHODOLOGIES	4	-
6	BIG DATA ANALYTICS LAB	-	3
7	NETWORK PROGRAMMING LAB	-	3
8	PYTHON PROGRAMMING LAB	-	3

## VI Semester

S. No.	SUBJECT
1	PROJECT SEMINAR
2	DISSERTATION/ THESIS EXCELLENT / GOOD / SATISFACTORY/ NOT SATISFACTORY

  
 Director & Principal  
 Miracle Educational Society  
 Group of Institutions, Bhogapuram  
 Villupattanam Dist.-533216.A.R.

# ACADEMIC REGULATIONS & COURSE STRUCTURE

For

**EMBEDDED SYSTEMS**

*(Applicable for batches admitted from 2016-2017)*



*[Signature]*  
Director & Principal  
Miracle Educational Society  
Group of Institutions, Bhogapuram  
Vidyalayam Dist.-533216, A.P.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA  
KAKINADA - 533 003, Andhra Pradesh, India

## I Semester

S. No.	Name of the Subject	L	P	C
1	Digital System Design	4	-	3
2	Embedded System Design	4	-	3
3	Embedded Real Time Operating Systems	4	-	3
4	Embedded - C	4	-	3
5	<b>Elective I</b>	4	-	3
	1. Sensors and Actuators			
	2. Network Security & Cryptography			
	3. Advanced Computer Architecture			
6	<b>Elective II</b>	4	-	3
	1. Embedded Computing			
	2. Soft Computing Techniques			
	3. Advanced Operating Systems			
7	4. Cyber Security	-	3	2
	Embedded C-Laboratory			20
<b>Total Credits</b>				

## II Semester

S. No.	Name of the Subject	L	P	C
1	Hardware Software Co-Design	4	-	3
2	Digital Signal Processors and Architecture	4	-	3
3	Embedded Networking	4	-	3
4	CPLD and FPGA Architectures and Applications	4	-	3
5	<b>Elective III</b>	4	-	3
	1. CMOS Mixed Signal Circuit Design			
	2. Micro Electro Mechanical System Design			
	3. Internet Protocols			
6	<b>Elective IV</b>	4	-	3
	1. System on Chip Design			
	2. Wireless LANs and PANs			
	3. Multimedia and Signal Coding			
7	Embedded System Design Laboratory	-	3	2
<b>Total Credits</b>				20

  
 Director & Principal  
 Miracle Educational Society  
 Group of Institutions, Bhandarwadi  
 Managaram Dist.

### III Semester

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce	--	--	2
2	Seminar - I	--	--	2
3	Project Work Part - I	--	--	16
Total Credits				20

### IV Semester

S. No.	Subject	L	P	Credits
1	Seminar - II	--	--	2
2	Project Work Part - II	--	--	18
Total Credits				20

  
Director & Principal  
Miracle Educational Society  
Group of Institutions, Bhogapuram  
Vijayanagara Dist. 533216, A.P.

# ACADEMIC REGULATIONS & COURSE STRUCTURE

For

## COMPUTER SCIENCE & ENGINEERING

*(Applicable for batches admitted from 2016-2017)*



**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY: KAKINADA**  
**KAKINADA - 533 003, Andhra Pradesh, India**

*Director & Principal*  
**Miracle Educational Society**  
**Group of Institutions, Bhogapuram**  
**Vizianagaram Dist.-533216,A.P.**

### I Semester

S.No.	SUBJECT	L	P	C
1	ADVANCED DATA STRUCTURES AND ALGORITHM ANALYSIS	4	--	3
2	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE	4	--	3
3	COMPUTER ORGANIZATION AND ARCHITECTURE	4	--	3
4	DATABASE MANAGEMENT SYSTEMS	4	--	3
5	ADVANCED OPERATING SYSTEMS	4	--	3
6	DATA WAREHOUSING AND DATA MINING	4	--	3
7	CSE LAB 1	--	3	2
<b>Total Credits</b>				<b>20</b>

### II Semester


S.No.	SUBJECT	L	P	C
1	CYBER SECURITY	4	--	3
2	COMPUTER NETWORKS	4	--	3
3	BIG DATA ANALYTICS	4	--	3
4	ADVANCED UNIX PROGRAMMING	4	--	3
5	<b>Elective - 1</b>	4	--	3
	1. SOFTWARE ENGINEERING			
	2. ARTIFICIAL INTELLIGENCE			
	3. COMPILER DESIGN			
4. MACHINE LEARNING				
6	<b>Elective - 2</b>	4	--	3
	1. IMAGE PROCESSING			
	2. PARALLEL ALGORITHMS			
	3. CLOUD COMPUTING			
4. MOBILE COMPUTING				
7	CSE LAB 2	--	3	2
<b>Total Credits</b>				<b>20</b>

### III Semester

S. No.	Subject	L	P	Credits
1	Comprehensive Viva-Voce	--	--	2
2	Seminar - I	--	--	2
3	Project Work Part - I	--	--	16
<b>Total Credits</b>				<b>20</b>

### IV Semester


S. No.	Subject	L	P	Credits
1	Seminar - II	--	--	2
2	Project Work Part - II	--	--	18
<b>Total Credits</b>				<b>20</b>

  
 Director & Principal  
 Miracle Educational Society  
 Group of Institutions, 87-1  
 V. J. Narayana Dist. - 533216, A.P.

Regulation	Course	Branch	Year	Semester	Subject code	Name of the subject
R16	B.Tech	1	3	2	R163201A	ELECTRONIC INSTRUMENTATION
R16	B.Tech	1	3	2	R163201B	DATA BASE MANAGEMENT SYSTEMS
R16	B.Tech	1	3	2	R163201C	ALTERNATIVE ENERGY SOURCES
R16	B.Tech	1	3	2	R163201D	WASTE WATER MANAGEMENT
R16	B.Tech	1	3	2	R163201E	FUNDAMENTALS OF LIQUEFIED NATURAL GAS
R16	B.Tech	1	3	2	R163201F	GREEN FUEL TECHNOLOGIES
R16	B.Tech	1	4	1	R164101A	FINITE ELEMENT METHODS (ONLY FOR CIVIL)
R16	B.Tech	1	4	1	R164101B	GROUND IMPROVEMENT TECHNIQUES
R15	B.Tech	1	4	1	R164101C	AIR POLLUTION & CONTROL
R15	B.Tech	1	4	1	R164101D	URBAN HYDROLOGY
R15	B.Tech	1	4	1	R164101E	TRAFFIC ENGINEERING
R16	B.Tech	1	4	1	R164101F	ADVANCED STRUCTURAL ENGINEERING
R16	B.Tech	1	4	1	R164101G	ADVANCED FOUNDATION ENGINEERING
R16	B.Tech	1	4	1	R164101H	ENVIRONMENTAL IMPACT ASSESSMENT & MANAGEMENT
R16	B.Tech	1	4	1	R164101I	GROUND WATER DEVELOPMENT
R16	B.Tech	1	4	1	R164101J	PAVEMENT ANALYSIS AND DESIGN
R16	B.Tech	1	4	2	R164201A	Bridge Engineering
R16	B.Tech	1	4	2	R164201B	Soil Dynamics and Foundations
R16	B.Tech	1	4	2	R164201C	Solid and Hazardous Waste Management
R16	B.Tech	1	4	2	R164201D	Water Resources Systems Planning
R16	B.Tech	1	4	2	R164201E	Urban Transportation Planning Engrg
R16	B.Tech	2	3	2	R163202A	UNIX AND SHELL PROGRAMMING
R16	B.Tech	2	3	2	R163202B	OOPS THROUGH JAVA
R16	B.Tech	2	3	2	R163202C	VLSI DESIGN
R16	B.Tech	2	3	2	R163202D	ROBOTICS
R16	B.Tech	2	3	2	R163202E	NEURAL NETWORKS & FUZZY LOGIC


Director & Principal  
 Jyoti Educational Soc.  
 Group of Institutions, Bho  
 Viharapuram Dist.-53

R16	B.Tech	2	3	2	R163202F	ENERGY AUDIT AND CONSERVATION&MANAGEMENT
R16	B.Tech	2	4	1	R164102A	ELECTRICAL MACHINE MODELING AND ANALYSIS
R16	B.Tech	2	4	1	R164102B	ADVANCED CONTROL SYSTEMS
R16	B.Tech	2	4	1	R164102C	PROGRAMMABLE LOGIC CONTROLLERS & APPLICATIONS
R16	B.Tech	2	4	1	R164102D	INSTRUMENTATION
R16	B.Tech	2	4	1	R164102E	OPTIMIZATION TECHNIQUES(ONLY FOR EEE)
R16	B.Tech	2	4	1	R164102F	ELECTRIC POWER QUALITY
R16	B.Tech	2	4	1	R164102G	SPECIAL ELECTRICAL MACHINES
R17	B.Tech	2	4	2	R164202A	High Voltage Engineering
R18	B.Tech	2	4	2	R164202B	Flexible Alternating Current Transmission Systems
R19	B.Tech	2	4	2	R164202C	Power System Reforms
R16	B.Tech	3	3	2	R163203A	ENTREPRENEURSHIP
R16	B.Tech	3	3	2	R163203D	COMPUTER GRAPHICS
R16	B.Tech	3	3	2	R163203C	INDUSTRIAL ROBOTICS
R16	B.Tech	3	3	2	R163203D	GREEN ENGINEERING SYSTEMS
R16	B.Tech	3	4	1	R164103A	COMPUTATIONAL FLUID DYNAMICS (COMMON TO ME, AME & AERONAUTICAL)
R16	B.Tech	3	4	1	R164103B	CONDITION MONITORING(COMMON TO ME & AME)
R16	B.Tech	3	4	1	R164103C	ADDITIVE MANUFACTURING
R16	B.Tech	3	4	1	R164103D	ADVANCED MATERIALS
R16	B.Tech	3	4	1	R164103E	DESIGN FOR MANUFACTURE
R16	B.Tech	3	4	1	R164103F	GAS DYNAMICS & JET PROPULSION
R17	B.Tech	3	4	2	R164203A	Thermal Equipment Design
R18	B.Tech	3	4	2	R164203B	Non Destructive Evaluation
R19	B.Tech	3	4	2	R164203C	Quality and Reliability Engineering
R16	B.Tech	4	3	2	R163204A	OOPS THROUGH JAVA
R16	B.Tech	4	3	2	R163204B	DATA MINING

  
 Director & Principal  
 Miracle Educational Society  
 Group of Institutions, Bngyapuram,  
 Vizianagaram Dist.,-533216.A.P.



R15	B.Tech	4	3	2	R163204C	POWER ELECTRONICS
R16	B.Tech	4	3	2	R163204D	BIO-MEDICAL ENGINEERING
R16	B.Tech	4	3	2	R163204E	ARTIFICIAL NEURAL NETWORKS
R16	B.Tech	4	4	1	R164104A	TV ENGINEERING
R16	B.Tech	4	4	1	R164104B	ELECTRONIC SWITCHING SYSTEMS
R16	B.Tech	4	4	1	R164104C	SYSTEM DESIGN THROUGH VERILOG
R16	B.Tech	4	4	1	R164104D	EMBEDDED SYSTEMS
R15	B.Tech	4	4	1	R164104E	ANALOG IC DESIGN (COMMON TO ECE & EIE)
R16	B.Tech	4	4	1	R164104F	NETWORK SECURITY & CRYPTOGRAPHY (ONLY ECE)
R17	B.Tech	4	4	2	R164204A	Wireless sensors & Networks
R18	B.Tech	4	4	2	R164204B	Digital IC Design
R19	B.Tech	4	4	2	R164204C	Operating Systems
R16	B.Tech	5	3	2	R163205A	ARTIFICIAL INTELLIGENCE
R16	B.Tech	5	3	2	R163205B	INTERNET OF THINGS
R16	B.Tech	5	3	2	R163205C	CYBER SECURITY
R16	B.Tech	5	3	2	R163205D	DIGITAL SIGNAL PROCESSING
R16	B.Tech	5	3	2	R163205E	EMBEDDED SYSTEMS
R16	B.Tech	5	3	2	R163205F	Robotics
R16	B.Tech	5	4	1	R164105A	BIG DATA ANALYSIS(COMMON TO CSE,IT)
R16	B.Tech	5	4	1	R164105B	INFORMATION RETRIEVAL SYSTEMS(COMMON TO CSE,IT)
R16	B.Tech	5	4	1	R164105C	MOBILE COMPUTING (COMMON TO CSE & IT)
R16	B.Tech	5	4	1	R164105D	CLOUD COMPUTING(COMMON TO CSE,IT)
R16	B.Tech	5	4	1	R164105E	SOFTWARE PROJECT MANAGEMENT(COMMON TO CSE,IT)
R16	B.Tech	5	4	1	R164105F	SCRIPTING LANGUAGES
R16	B.Tech	5	4	2	R164205A	CONCURRENT AND PARALLEL PROGRAMMING
R16	B.Tech	5	4	2	R164205B	ARTIFICIAL NEURAL NETWORKS
R16	B.Tech	5	4	2	R164205C	OPERATIONAL RESEARCH

  
 Director & Principal  
 Mahade Educational So  
 cety of Institutions, Bho  
 jpur, Jharkhand  
 Dist.-535  
 319

Course	Branch	Regulation	Year	Semester	Subject code	Name of the subject
M Tech	55	R16	1	1	15503	SENSORS AND ACTUATORS ELECTIVE 1
M Tech	55	R16	1	1	15504	EMBEDDED COMPUTING ELECTIVE 2
M Tech	55	R16	1	1	15703	ADVANCED COMPUTER ARCHITECTURE ELECTIVE 1
M Tech	55	R16	1	1	16811	NETWORK SECURITY AND CRYPTOGRAPHY ELECTIVE 1
M Tech	55	R16	1	1	16909	ADVANCED OPERATING SYSTEMS ELECTIVE 2
M Tech	55	R16	1	1	16808	CYBER SECURITY ELECTIVE 2
M Tech	55	R16	1	1	16807	SOFT COMPUTING TECHNIQUES ELECTIVE 2
M Tech	55	R16	1	2	16802	CMOS Mixed Signal Circuit Design
M Tech	55	R16	1	2	16808	Micro Electro Mechanical System Design
M Tech	55	R16	1	2	14506	Internet Protocols
M Tech	55	R16	1	2	15702	System on Chip Design
M Tech	55	R16	1	2	15903	Wireless LANs and PANS
M Tech	55	R16	1	2	15504	Multimedia and Signal Coding
M Tech	58	R16	1	2	10502	SOFTWARE ENGINEERING
M Tech	58	R16	1	2	10503	ARTIFICIAL INTELLIGENCE
M Tech	58	R16	1	2	10504	COMPILER DESIGN 4. MACHINE LEARNING
M Tech	58	R16	1	2	10507	IMAGE PROCESSING
M Tech	58	R16	1	2	10505	PARALLEL ALGORITHMS
M Tech	58	R16	1	2	12510	CLOUD COMPUTING
M Tech	58	R16	1	2	15802	MOBILE COMPUTING
M Tech	58	R16	1	2	14006	MACHINE LEARNING

  
 Director & Pr.  
 Miracle Education,  
 Group of Institutions, Bhuyyapudi  
 Vizianagaram Dist.-533216, A.P.

Course	Year	Semester	Regulation	Subject code	Name of the subject
MBA	2	3	R16	MB1631	STRATEGIC MANAGEMENT
MBA	2	3	R16	MB1632	LEGAL ASPECTS OF BUSINESS
MBA	2	3	R16	MB1633	BUSINESS ETHICS & CORPORATE GOVERNANCE
MBA	2	4	R16	MB1634	LEADERSHIP MANAGEMENT (HR) E-I
MBA	2	3	R16	MB1635	COMPENSATION AND REWARD MANAGEMENT (HR) E-II
MBA	2	3	R16	MB1636	PERFORMANCE MANAGEMENT (HR) E-III
MBA	2	3	R16	MB1637	STRATEGIC HUMAN RESOURCE MANAGEMENT (HR) E-IV
MBA	2	3	R16	MB1638	CONSUMER BEHAVIOR (MARKETING) E-I
MBA	2	3	R16	MB1639	RETAIL MANAGEMENT (MARKETING) E-II
MBA	2	3	R16	MB1640	CUSTOMER RELATIONSHIP MANAGEMENT (MARKETING) E-III
MBA	2	3	R16	MB1641	STRATEGIC MARKETING MANAGEMENT (MARKETING) E-IV
MBA	2	3	R16	MB1642	STRATEGIC FINANCIAL MANAGEMENT (FINANCE) E-I
MBA	2	3	R16	MB1643	ADVANCE MANAGEMENT ACCOUNTING (FINANCE) E-II
MBA	2	3	R16	MB1644	BANKING AND INSURANCE MANAGEMENT (FINANCE) E-III
MBA	2	3	R16	MB1645	SECURITY ANALYSIS & PORTFOLIO MANAGEMENT (FINANCE) E-IV
MBA	2	4	R16	MB1646	LOGISTIC AND SUPPLY CHAIN MANAGEMENT
MBA	2	4	R16	MB1647	ENTREPRENEURSHIP DEVELOPMENT
MBA	2	4	R16	MB1648	ORGANIZATIONAL DEVELOPMENT & CHANGE MANAGEMENT (HR) E-V
MBA	2	4	R16	MB1649	FINANCIAL MARKETS AND SERVICES (FINANCE) E-VI
MBA	2	4	R16	MB1650	SERVICES MARKETING (MARKETING) E-VI
MBA	2	4	R16	MB1651	GLOBAL HRM (HR) E-VI
MBA	2	4	R16	MB1652	GLOBAL FINANCIAL MANAGEMENT (FINANCE) E-VI
MBA	2	4	R16	MB1653	PROMOTIONAL DISTRIBUTION MANAGEMENT (MARKETING) E-VI
MBA	2	4	R16	MB1654	LABOR WELFARE & LEGISLATION (HR) E-VII
MBA	2	4	R16	MB1655	RISK MANAGEMENT (FINANCE) E-VII
MBA	2	4	R16	MB1656	GLOBAL MARKETING MANAGEMENT (MARKETING) E-VII
MBA	2	4	R16	MB1657	MANAGEMENT OF INDUSTRIAL RELATIONS (HR) E-VIII
MBA	2	4	R16	MB1658	TAX MANAGEMENT (FINANCE) E-VII
MBA	2	4	R16	MB1659	SUPPLY CHAIN MANAGEMENT (MARKETING) E-VIII
MBA	2	4	R16	MB1660	MAJOR PROJECT AND COMPREHENSIVE VIVA

  
 Director & Principal  
 Miracle Educational Society  
 Group of Institutions, Bhogapuram  
 V. Anagaram Dist.-533216, A.P.