Dr. M.G.R.
EDUCATIONAL AND RESEARCH INSTITUTE
DEEMED TO BE UNIVERSITY
University with Graded Autonomy Status
(An ISO 21001 : 2018 Certified Institution)
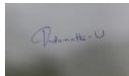Periyar E.V.R. High Road, Maduravoyal, Chennai-95. Tamilnadu, India.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
B.TECH COMPUTER SCIENCE AND ENGINEERING

2017 Regulation
List of Electives

S.NO	Sub. Code	Subject Name
1	BCS17OE1	Web Design
2	BCS17OE2	Cyber Security Essentials
3	BCS17OE3	Electronic Waste Management
4	BCS17OE4	Software Testing
5	BCS17OE5	Information Security Management
6	BCS17005	Design and Analysis of Algorithms (Only for IT)
7	BCS17E01	Image Processing
8	BCS17E02	Goegraphical Information Systems
9	BCS17E03	Database Tuning
10	BCS17E04	Component Based Technology
11	BCS17E05	E-Commerce
12	BCS17E06	Artificial Intelligence
13	BCS17E07	Human Computer Interaction
14	BCS17E08 /BIS15005	Wireless and Mobile Networking
15	BCS17E09	Web Mining
16	BCS17E10	Web Data Design and Management
17	BCS17E11	Risk Management

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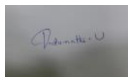
REGISTRAR
Dr. M.G.R.
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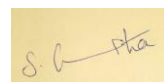
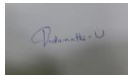|		
18	BCS17E12	M-Commerce
19	BCS17E13	Cryptography and Network Security
20	BCS17E14	Mobile Adhoc Networks
21	BCS17E15	TCP/IP Design and Implementation
22	BCS17E16	Cyber Forensics and Internet Security
23	BCS17E17	Database Security
24	BCS17E18	Real Time Systems
25	BCS17E19	Distributed Computing
26	BCS17E20	Optimization Techniques
27	BCS17E21	Management Information Systems
28	BCS17E22	Mobile Application Development
29	BCS17E23	Data Science and Big Data Analytics
30	BIT17007	Cloud Technology (only for CSE)
31	BCS17E24	Network Forensics
32	BCS17E25	Internet of Things
33	BCS17E26	Social Computing
34	BCS17E27	Enterprise Architecture
35	BCS17EXX	Any other that is important time to time based on Industry Demand
36	BCS17E28	Information Storage Management
37	BCS17E29	Network Infrastructure Management
38	BCS17E30	Foundations of Parallel Programming
39	BCS17E31	Virtualization
40	BCS17E32	Hadoop Distributed File System

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41	BCS17E33	Mobile Databases
42	BCS17E34	Web Engineering
43	BCS17E35	4G Networks
44	BCS17E36	Enterprise Resource Planning
45	BCS17E37	Supply Chain Management
46	BCS17E38	Mainframe Computing
47	BCS17E39	Neuro Fuzzy Computing
48	BCS17E40	Web Content Management
49	BCS17E41	Machine Learning

2018 Regulation
List of Electives

| S.NO	Sub. Code	Subject Name
1	BCS18E01	Image Processing
2	BCS18E02	Geographical Information Systems
3	BCS18E03	Database Tuning
4	BCS18E04	Component Based Technology
5	BCS18E05	E-Commerce
6	BCS18E06	Artificial Intelligence
7	BCS18E07	Human Computer Interaction
8	BCS18E08	Wireless and Mobile Networking
9	BCS18E09	Web Mining
10	BCS18E10	Web Data Design and Management
11	BCS18E11	Risk Management
12	BCS18E12	Cryptography and Network Security
13	BCS18E13	Mobile Adhoc Networks
14	BCS18E14	TCP/IP Design and Implementation
15	BCS18E15	Cyber Forensics and Internet Security
16	BCS18E16	Database Security
17	BCS18E17	Management Information Systems
18	BCS18E41	Mobile Application Development(only for CSE)
19	BCS18E18	Data Science and Big Data Analytics

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| 20	BIT18006	Cloud Technology (only for CSE)
21	BCS18E19	Network Forensics
22	BCS18E20	Internet of Things
23	BCS18E21	Social Computing
24	BCS18E22	Enterprise Architecture
25	BCS18EXX	Subject based on Industry Demand
26	BCS18E23	Optimization Techniques
27	BCS18E24	Information Storage Management
28	BCS18E25	Network Infrastructure Management
29	BCS18E26	Foundations of Parallel Programming
30	BCS18E27	Virtualization
31	BCS18E28	Hadoop Distributed File System
32	BCS18E29	Mobile Databases
33	BCS18E30	Web Engineering
34	BCS18E31	4G Networks
35	BCS18E32	Enterprise Resource Planning
36	BCS18E33	Supply Chain Management
37	BCS18E34	Mainframe Computing
38	BCS18E35	Neuro Fuzzy Computing
39	BCS18E36	Web Content Management
40	BCS18E37	Machine Learning
41	BCS18E38	M-Commerce
42	BCS18E39	Real Time Systems
43	BCS18E40	Distributed Computing
44	BCE18OE1/BCE20OE1	Water Pollution And Its Management
45	BCE18OE2/BCE20OE2	Environment,HealthAndSafety InIndustries
46	BCE18OE3/BCE20OE3	Green Building And Vastu Concepts
47	BCE18OE4/BCE20OE4	Climate Change And Sustainable Development
48	BCE18OE5/BCE20OE5	Intelligent Transportation Systems
49	BCE18OE6/BCE20OE6	Geographical Information System And Mapping
50	BCE18OE7/BCE20OE7	Industrial Pollution Prevention And Cleaner Production
51	BCE18OE8/BCE20OE8	Air Pollution And Control
52	BCE18OL1/BCE20OL1	Building Drawing Practice Using Autocadd
53	BCE18OL2/BCE20OL2	GeographicalInformationSystemAnd MappingLab
54	BCE18OL3/BCE20OL3	Environmental Engineering Laboratory
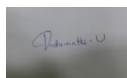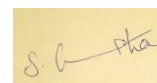
55	BCT18OE1/BCT20OE1	Fundamentals Of Nanoscience
56	BCT18OE2/BCT20OE2	Electrochemical Engineering
57	BCT18OE3/BCT20OE3	Alternative Fuels And Energy System
58	BCT18OE4/BCT20OE4	Petrochemical Unit Processes
59	BCT18OE5/BCT20OE5	Principles Of Desalination Technologies
60	BCT18OE6/BCT20OE6	Piping Design Engineering
61	BCT18OE7/BCT20OE7	E-Waste Management
62	BEE18OE1/BEE20OE1	Electrical Safety for Engineers
63	BEE18OE2/BEE20OE2	Energy Conservation Techniques
64	BEE18OE3/BEE20OE3	Electric Vehicle Technology
65	BEE18OE4/BEE20OE4	Biomedical Instrumentation
66	BEE18OE5/BEE20OE5	Introduction to Power Electronics
67	BEE18OE6/BEE20OE6	Industrial Instrumentation
68	BEE18OE7/BEE20OE7	Solar Energy Conversion System
69	BEE18OE8/BEE20OE8	Wind Energy Conversion System
70	BEE18OE9/BEE20OE9	Energy Storage Technology
71	BEE18OL1/BEE20OL1	Transducer Lab
72	BEE18OL2/BEE20OL2	PLC and SCADA Lab
73	BEE18OL3/BEE20OL3	Electrical Maintenance Lab
74	BEE18OL4/BEE20OL4	Power Electronics Lab
75	BEE18OL5/BEE20OL5	Bio Medical Instrumentation Lab
76	BBT18OE1/BBT20OE1	Food and Nutrition
77	BBT18OE2/BBT20OE2	Human Physiology
78	BBT18OE3/BBT20OE3	Clinical Biochemistry
79	BBT18OE4/BBT20OE4	Bioprocess Principles
80	BBT18OE5/BBT20OE5	Biosensors and biomedical Devices in Diagnostics
81	BBT18OE6/BBT20OE6	Basic Bioinformatics
82	BBT18OL1/BBT20OL1	Basic Biochemistry Lab
83	BBT18OL2/BBT20OL2	Basic Bioprocess Lab
84	BBT18OL3/BBT20OL3	Basic Microbiology Lab
85	BBT18OL4/BBT20OL4	Basic Bioinformatics Lab
86	BME18OE1/BME20OE1	Industrial Engineering
87	BME18OE2/BME20OE2	Finite Element Method
88	BME18OE3/BME20OE3	AutomobileEngineering
89	BME18OE4/BME20OE4	Industrial Robotics
90	BME18OE5/BME20OE5	Renewable Sources Of Energy
91	BME18OE6/BME20OE6	Refrigeration And Air Conditioning
92	BME18OE7/BME20OE6	Composite Materials
93	BME18OL1/BME20OL1	Internalcombustion Engines & steamlab
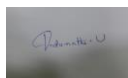
94	BME18OL2/BME20OL2	Computer aided design And analysis lab
95	BME18OL3/BME20OL3	Mechanical measurements & metallurgylab
96	BMG18OE1/BMG20OE1/ BMG13E12/BMG20E12	Technical Entrepreneurship
97	BMG18OE2/BMG20OE2	Advanced Program in Entrepreneurship
98	BEC18OE1/BES20OE1	Internet of Things and itsApplications
99	BEC18OE2/BES20OE2	Cellular Mobile Communication
100	BEC18OE3/BES20OE3	Satellite and its Applications
101	BEC18OE4/BES20OE4	Fundamentals of Sensors
102	BEC18OE5/BES20OE5	Basics of Microprocessors andMicrocontrollers
103	BEC18OE6/BES20OE6	Industry 4.0 Concepts
104	BEC18OL1/BEC20OL1	Sensors and IoT Lab
105	BEC18OL2/BEC20OL2	Robotics Control Lab
106	BEC18OL3/BEC20OL3	Basics of MATLAB

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