COURSE OUTCOMES FOR M.TECH-CSE R18 FOR THE YEAR 2018-2020

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Course	Year/Semester	Subject Name (Subject Code)	No. of Hours	Credits: 3		
Outcome	I Sem	Data Structures and	L:3 T:0 P:0			
		Algorithms(M18CS01)				
On successf	ul completion of th	his course, students will be able to:	<u> </u>	<u>l</u>		
1		basic on data structures to store and retrieve an	ordered or unord	ered data Sucl		
1		sts, trees, heaps, and hash tables.	ordered of unord	erea data. Suel		
2		Develop knowledge on applications of data structures having the ability to implement algorithms of perform operation as create, insert, delete, search, and sorting.				
3		nd to compare efficiency of an algorithm.				
4	Understand the bas	ic concepts of latest techniques.				
5	Ability to have con	cepts on tree and graphs.				
6	Implement various various operations.	projects on these data structures and plan B-Tr	rees to implement	different		
Course	Year /Semester	Subject Name (Subject Code)	No. of Hours	Credits:3		
Outcome	I Sem	Distributed Systems(M18CS02)	L:3 T:0 P:0			
On success	sful completion o	f this course, students are able to:				
1	Explain distributed	system design and its properties.				
2		underlined along with its functionality.				
3	Implement problem	ms and challenges with these principles.				
4	Identify the effecti	veness and shortcomings for solutions.				
5	Identify the princip	oles that are based on these contemporary distri	buted systems.			
6	Explain its affect of	on software design to identify the features.	-			
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	Credits:3		
Outcome	I Sem	Internet of Things(M18CS03)	L:3 T:0 P:0			
After the o	completion of this o	course, the students should be able to	1			
1	_	terminology, latest technology along with its a	pplications.			
2	Discuss the protoco	ols based on the concepts such as machine to m	nachine.			
3	Illustrate the IOT	devices using Python Scripting Language.				
4	Develop an applic applications of IoT	ation with Raspberry PI platform which can be devices.	widely used in m	any		
5	Implement it widel	y that can be used in many applications of IoT	devices.			
6	Design a web appli	cation framework on REST ful web API.				
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	Credits: 3		
Outcome	I Sem	Machine Learning(M18CS04)	L:3 T:0 P:0			
1	Discuss different	application on Machine Learning problems.				
2	Describe various al	Igorithms on Machine Learning mentioning its	strengths and wea	knesses		
	l	<u> </u>				

3	Illustrate the basic theory focused on Machine Learning
4	Improve the performance of Machine Learning algorithms with different parameters.
5	Analyze current research papers
6	Understand the latest issues raised by current researchers

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Course	Year/Semester	Subject Name (Subject Code)	No. of Hours	Credits: 3		
Outcome	I Sem	Cloud Computing(M18CS05)	L:3 T:0 P:0			
On successf	ul completion of th	is course, students will be able to:				
1	Discuss main conce	epts, key strengths, and limitations for cloud co	omputing.			
2	Develop the architecture along with specific infrastructure on cloud computing, including SaaS, PaaS, IaaS, public cloud, private cloud, hybrid cloud, etc.					
3		on cloud computing along with security, privac	• •	oility.		
4		appropriate technology, methods on these issu				
5		and explain, analyze, and evaluate various clo		itions.		
6	Provide the approp	priate solutions on cloud computing based on the				
Course	Year /Semester	Subject Name (Subject Code)	No. of Hours	Credits:3		
Outcome	I Sem	Data Science(M18CS06)	L:3 T:0 P:0			
On success	sful completion of	f this course, students are able to:				
1	Describe a Data Sc	ience, skill sets available for a data scientist.				
2		Statistical Inference, its significance to explore	data analysis.			
3	Understand Data So	cience Process and its components interact				
4	Adapt APIs tools to	understand the Web data.				
5	Illustrate EDA and	the Data Science as a case study.				
6	Plan a effective vis	ualization on given data.				
Course Outcome	Year / semester I Sem	Subject Name (Subject Code) Advanced Wireless and Mobile Networks(M18CS07)	No. of Hours L:3 T:0 P:0	Credits:3		
After the o	completion of this c	course, the students should be able to				
1	Discuss the state-of	f-the-art in network protocols, architectures and	d applications			
2	Analyze existing no	etwork protocols and networks.				
3	Develop new proto	cols on networking				
4	Describe novel ideas in the area of Networking via term-long research projects.					
5	Implement various	protocols on localization Methods.				
6	Design a real time a	applications on RFID.				

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Course	Year / semester	Subject Name (Subject Code)	No. of Hours	Credits: 3	
Outcome	I Sem	Scripting Languages(M18CS08)	L:3 T:0 P:0		
1	Explain scripting	as well as contributions on scripting languages	S.		
2	Discuss Python o	n regard as the object-oriented concepts,			
3		ent built-in objects of Python,			
4		applications such as TCP/IP network program	ming multithread	ad	
7		b applications, discrete-event simulations, etc.		cu	
5		Develop different modules on exception handling applications.			
6	Plan a Real Time				
Course	Year/Semester	Subject Name (Subject Code)	No. of Hours	Credits: 2	
		Research Methodology(M18MC01)			
Outcome	I Sem	research memodology (milomeor)	L:2 T:0 P:0		
On successf	ful completion of th	is course, students will be able to:			
1	-	e on Research Design and statistical methods in	research.		
2	Analyze the various	s methods in Data Collection, Data Organization	on and different ap	proaches of	
	Data Representatio				
3		basic concepts required to prepare			
	a. Research sync	ppsis			
	b. Dissertation	d			
4		d research proposal of Patent Rights and Administration of Patent	System		
4	interpret the scope	of Fatent Rights and Administration of Fatent	System.		
Course	Year /Semester	Subject Name (Subject Code)	No. of Hours	Credits:0	
Outcome	I Sem	English for Research Paper	L:2 T:0 P:0		
Outcome	1 Sem	Writing(M18MC01)			
On success					
	sful completion of	f this course, students are able to:			
1			rnose of writing a	nx,	
1	Obtain complete kr	nowledge on Definition of a research paper, Pu	rpose of writing a	ny	
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2 3 4 Course Outcome	Obtain complete kr research paper, its S Understand the star Analyze all the Qua plagiarism. Explain the detailed study on paper write Year / semester I Sem	nowledge on Definition of a research paper, Purscope and Benefits. Indard English formats .for scripting the best restallitative and Quantitative Research Methodology of process of writing and publishing any researching. Subject Name (Subject Code) Data Structures and Algorithms Lab(M18CS09)	search paper gies and the ethics h paper and perfo	rm a case	
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Course Outcome	Year / semester I Sem	Subject Name (Subject Code) Cloud Computing Lab (M18CS10)	No. of Hours L:0 T:0 P:4	Credits:2	
		ecture along with specific infrastructure on c cloud, private cloud, hybrid cloud, etc.	loud computing, i	ncluding SaaS,	
2	Explain the issues on cloud computing along with security, privacy, and interoperability				
3	Identify problems, and explain, analyze, and evaluate various cloud computing solutions.				
4	Provide the appro	priate solutions on cloud computing based on t	Provide the appropriate solutions on cloud computing based on the application.		

II-SEMESTER

Course Outcome	Year/Semester II Sem	Subject Name (Subject Code) Network Programming(M18CS11)	No. of Hours L:3 T:0 P:0	Credits: 3	
On successi	ful completion of th	us course, students will be able to:			
1	Determine Linux u	tilities.			
2	Identify file handling	ng techniques and signals.			
3	Explain what is IPO	C and network programming in Java.			
4	Learn how process	es communicate with each other across a Comp	outer Network.		
5	Develop Network p	programming using TCP/UDP sockets			
6	Implement Real T	ime and current trends in client server Applicat	ion.		
Course	Year /Semester	Subject Name (Subject Code)	No. of Hours	Credits:3	
Outcome	II Sem	Soft Computing Techniques(M18CS12)	L:3 T:0 P:0		
On success	sful completion of	f this course, students are able to:			
1	Understand the fuz	zy logic, concepts of fuzziness involved in fuzz	zy set theory		
2		ts of fuzzy sets, knowledge representation usin ning, fuzzy inference systems, and fuzzy logic.	g fuzzy rules,		
3	* *	ntal theory, concepts of neural networks.			
4	Identify different n	eural network architectures, algorithms, applica-	ations along their	limitations.	
5	Classify different lowith its application	earning rules, architectures to learn several neus.	ral network parad	igms along	
6	Deploy different ap	oplications of these models to solve engineering			
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	Credits:3	
Outcome	II Sem	Computer Vision(M18CS13)	L:3 T:0 P:0		
After the	completion of this o	course, the students should be able to			
1	Elaborate developn	Elaborate development of algorithms and techniques.			
2	Analyze and interp	nalyze and interpret the visible world around us with real time problems.			

pattern analysis visual geometric modeling, stochastic optimization etc. 4 Take part to makeup and contribute in research developments in the field of computer vision. 5 Explain different applications ranging from Biometrics, Medical diagnosis, document processing, mining of visual content, to surveillance, advanced rendering etc. 6 Identify applications In-vehicle vision system. Course (Var / semester) Subject Name (Subject Code) Data Preparation and Analysis (M18CS14) L: 3 T: 0 P: 0 1 Work for a business environment dealing with data preparation. 2 Prepare data marts for statistical analysis using SAS software. 3 Implement SAS with an efficient 4 Analyze data from databases to clean the data for statistical analysis in SAS. Develop many strategies to deal with imperfect real world data. Course Vear/Semester Subject Name (Subject Code) No. of Hours Digital Forensics (M18CS15) L: 3 T: 1 P: 0 On successful completion of this course, students will be able to: 1 Discuss digital forensics related to investigative process. 2 Explain the legal issues to prepare, perform digital forensic analysis based on the investigator's position. 3 Demonstrate the techniques, usage of digital forensics tools 4 Elaborate digital forensics in detail. 5 Analyze the state of the practice, gaps in technology, policy, and legal issues 6 Develop techniques used on Data Analysis, cybercrime. Course Vear/Semester Subject Name (Subject Code) L: 3 T: 0 P: 0 On successful completion of this course, students are able to: 1 Describe various techniques used for data fragmentation, replication, and allocation for a distributed database. 2 Compare simple strategies for executing a distributed query optimization. 4 Describe distributed concurrency control. 5 Illustrate techniques based on the distinguished voting methods. 6 Learn different types of Heterogeneous Database System Course Vear / semester Subject Name (Subject Code) Human Computer Interaction(M18CS17) L: 3 T: 0 P: 0 After the completion of this course, the stud	3		ntal concepts on multi-dimensional signal proc		traction,		
Explain different applications ranging from Biometries, Medical diagnosis, document processing, mining of visual content, to surveillance, advanced rendering etc. 6 Identify applications In-vehicle vision system. Course Vear / semester Outcome II Sem Data Preparation and Analysis (M18CS14)	4	•					
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Data Preparation and Analysis (M18CS14) L:3 T:0 P:0	6	Identify application	ns In-vehicle vision system.				
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Outcome II Sem Distributed Databases (M18CS16) L:3 T:0 P:0 L:3 T:0	6	Develop technique	s used on Data Analysis, cybercrime.				
On successful completion of this course, students are able to: 1	Course	Year /Semester	Subject Name (Subject Code)		Credits:3		
1 Describe various techniques used for data fragmentation, replication, and allocation for a distributed database. 2 Compare simple strategies for executing a distributed query optimization. 3 Learn the two-phase commit protocol on multiple nodes. 4 Describe distributed concurrency control. 5 Illustrate techniques based on the distinguished voting methods. 6 Learn different types of Heterogeneous Database System Course Outcome Year / semester Human Computer Interaction(M18CS17) After the completion of this course, the students should be able to 1 Discuss the characteristics of graphical and web user interfaces. 2 Understand the principles of design of business function.	Outcome	II Sem	Distributed Databases (M18CS16)	L:3 T:0 P:0			
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Outcome I Sem Human Computer Interaction(M18CS17) L:3 T:0 P:0 After the completion of this course, the students should be able to 1 Discuss the characteristics of graphical and web user interfaces. 2 Understand the principles of design of business function.							
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2 Understand the principles of design of business function.		_					
enderstand the principles of design of same so function.							
3 Demonstrate the system menus and screen based controls.		Understand the pr	inciples of design of business function.				
	3	Demonstrate the s	ystem menus and screen based controls.				

4	Adapt the goals ar	nd conceptualization interaction.			
5	Design the process	Design the process of interaction and affective aspects			
6	Compare the fram	ework, predictive models and prototypes.			
Course Outcome	Year / semester II Sem	Subject Name (Subject Code) Software Process and Project Management	No. of Hours L:3 T:0 P:0	Credits: 3	
		(M18CS18)			
1		execute projects based on required standar	ds.		
3		Understand the range of tools used on project management.			
4	· · ·	pts related on project governance and metho sis on solving problems and planning process			
			·		
5	Describe planning,	Risk and issues management.			
6	Plan process, prag	matic planning service delivery and quality as	surance		
Course	Year/Semester	Subject Name (Subject Code)	No. of Hours	Credits: 0	
Outcome	II Sem	Stress Management (M18AC02)	L:2 T:0 P:0		
On successf	ful completion of th	is course, students will be able to:			
1	Maintain a stress a effects.	wareness log. Include identification of causes,	symptoms, and a	nalysis of	
2	Gather information relevance.	n on current stress management techniques a	and evaluate pers	onal	
3	Practice specific te	chniques, track effectiveness, and revise to m	neet personal pre	ferences.	
4	Choose an adaptak techniques.	ole stress management plan for academic succ	ess incorporating	selected	
Course Outcome	Year /Semester II Sem	Subject Name (Subject Code) Network Programming Lab(M18CS19)	No. of Hours L:0 T:0 P:4	Credits:2	
On success	sful completion of	f this course, students are able to:			
1	Understand the co	ncepts of Socket commands.			
2	Implement Connec	ction-Oriented Service using standard ports.			
3	Define Connection	less and Connection Oriented Service.			
4	Plan a case study c sockets.	on client and server and construct a Remote C	Command Executi	on using	
Course	Year / semester	Subject Name (Subject Code)	No. of Hours	Credits:2	
Outcome	II Sem	Digital Forensics Lab (M18CS20)	L:0 T:0 P:2		
		course, the students should be able to	1	<u> </u>	
1	_	ethods available for retrieving the lost data.			
2		s mobile forensic techniques and how to hand	dle them.		
3		ent Open-source intelligence techniques			
4	*	to develop certification for Cyber Forensic.			
· 	2 STITUTION OF THE PROPERTY OF	to detemp determination for eyear referrible.			

Course Outcome		Subject Name (Subject Code) Mini Project (M18CS21)	No. of Hours L:0 T:0 P:2	Credits: 2
1	Enhance students' knowledge in current technology			
2	Develop leadership ability and responsibility to execute the given task			
3	Enhance their employability skills along with real corporate exposure			
4	Elaborate the con	npleted task and compile the report.		

III-SEMESTER

Course Outcome	Year/Semester III Sem	Subject Name (Subject Code) Semantic Web & Social Networks (M18CS22)	No. of Hours L:3 T:0 P:0	Credits: 3		
On successf	ul completion of th	is course, students will be able to:				
		ept structure of the semantic web technology World Wide Web and its uses.	and how this te	chnology		
2		analyze the concepts of metadata, semantics of knowledge and resource, ontology, andtheir escriptions in XML-based syntax and web ontology language (OWL).				
3	Describe logic sem	nantics and inference with OWL.				
4	Use ontology engin	neering approaches in semantic applications				
5	Program semantic	applications with Java API.				
6		ept structure of the semantic web technolog World Wide Web and its uses.	gy and how this	technology		
Course	Year /Semester	Subject Name (Subject Code)	No. of Hours	Credits: 3		
Outcome	III Sem	Mobile Application and Security (M18CS23)	L:3 T:0 P:0			
On success	sful completion o	f this course, students are able to:				
1	Explain the mobile	issues and development strategies.				
2	Discuss WAP and i	mobile security issues.				
3	Define the Bluetoc	oth security issues.				
4	Classify the SMS Se	ecurity issues.				
5	Demonstrate the E	interprise Security on the Mobile OS.				
6	Develop Application and security on Mobile OS.					
Course Outcome	Year /Semester III Sem	Subject Name (Subject Code) Compiler for HPC (M18CS24)	No. of Hours L:3 T:0 P:0	Credits: 3		

After the o	completion of this o	course, the students should be able to			
1		ms in the computational area to efficient pro	ogramming code f	or modern	
	computer architect				
2		nd handle programs for scientific computation	ons.		
3	Develop tools for p	performance optimization and debugging.			
4	Analyze code with	respect to performance and suggest and impl	ement performan	ce	
	improvements.	nprovements.			
5	Report on perform	Report on performance analysis in clear and correct writing.			
6	Implement algorith	nms on sparse graphs.			
Course	Year /Semester	Subject Name (Subject Code)	No. of Hours	Credits: 3	
Outcome	III Sem	Advanced Optimization Techniques (M18MA01)	L:3 T:0 P:0		
n successf	ul completion of th	is course, students will be able to:			
1		clearly, identify and analyze the individual fu	nctions.		
2	Analyze study on s	olving optimization problem.			
3	Translate verbal fo	rmula on optimization problem.			
4	Design algorithms,	reliably to find an approximate solution.			
5	Compare the perfo	ormance of an algorithm.			
6	Discovery, study, ι	inderstand and solve optimization technique	s using algorithms		
Course	Year /Semester	Subject Name (Subject Code)	No. of Hours	Credits: 3	
Outcome	III Sem	Waste Management (M18SE27)	L:3 T:0 P:0		
On success	sful completion of	f this course, students are able to:	1	•	
1	Compare the subje	ect from the technical, legal and economical p	points .		
2	Learn solid waste				
3	Describe environm	ent for sound management.			
4	Understand a mun	icipal solid waste management system.			
5		management system for decision makers.			
6	Design an incinera	·			
Course	Year /Semester	Subject Name (Subject Code)	No. of Hours	Credits: 3	
Outcome	III Sem	Embedded System Design (M18VL07)	L:3 T:0 P:0		
After the o	completion of this o	course, the students should be able to	1	<u> </u>	
1		ed systems, design, technology to explain its	metrics or challe	nges.	
2		gle – purpose processors using combinationa			
3	Discuss about opt	imizing single – purpose processors. Discuss eneral purpose processors.	•		
4	Define and distin	guish between a timer and a counter, var onous Receiver/ Transmitter. Explain contro	• • •		

5	Discuss common memory types ROM , RAM, advanced RAM. Explain microprocessor					
	interfacingand ar	nterfacingand arbitration methods, various protocols like serial, parallel.				
6	Explain basics of	interrupts, architectures like Round Robin	, Real – Time Ope	rating		
	Systemarchitectu	re.				
Course	Year /Semester	Subject Name (Subject Code)	No. of Hours	Credits: 10		
Outcome	III Sem	Dissertation Phase-I (M18CS25)	L:0 T:0 P:20			
1	Identify the probl	em by applying acquired knowledge.				
2	Analyze and cate	gorize executable project modules.				
3	Choose efficient	Choose efficient tools for designing project modules.				
4	Combine all the modules through effective team work after efficient testing					
5	Elaborate the con	Elaborate the completed task and compile the project report.				

IV-SEMESTER

Course	Year/Semester	Subject Name (Subject Code)	No. of Hours	Credits: 16
Outcome	I Sem	Dissertation Phase-II (M18CS26)	L:0 T:0 P:32	
On successful completion of this course, students will be able to:				
1	Identify the problem by applying acquired knowledge.			
2	Analyze and categorize executable project modules.			
3	Choose efficient tools for designing project modules.			
4	Combine all the modules through effective team work after efficient testing			
5	Elaborate the completed task and compile the project report.			