ACADEMIC CURRICULA

UNDERGRADUATE DEGREE PROGRAMMES

Bachelor of Technology

(B.Tech. - Four Years)

in

ARTIFICIAL INTELLIGENCE

(Choice Based Flexible Credit System) Regulations 2018

CURRICULUM and **SYLLABUS**



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University u/s 3 of UGC Act, 1956)

Kattankulathur, Chengalpattu District 603203, Tamil Nadu, India

B.Tech. in Artificial Intelligence

1. Dep	artment Vision State	ement			
Stmt - 1	To produce students Artificial Intelligence	with a comprehensive	understanding of the	essentials of the theo	ory and application of
Stmt - 2	To enable students to	become leaders in th	ne industry and acade	mia nationally and inte	ernationally.
Stmt - 3	To meet the persister	nt demands in the area	a of Artificial Intelligen	ce.	
2. Dep	artment Mission Sta	itement			
		ite and demonstrate h at serves the nation a		ce can be used to tac	kle the problems in
Sunt - 2	Humanities, Medicine	her disciplines that index, Agriculture, Manag	ement, Law, etc.		
		arch collaboration with			
		fety, cultural, environr			
	To produce successfu commitment to lifelon	ul Artificial Intelligence g learning.	graduates with the a	bility to work in multid	isciplinary teams and
3. Prog	gram Education Obj	ectives (PEO)			
PEO - 1 r		e to analyze the proble entific investigation ar			
	Graduates will be able	e to develop a basic u nowledge representat			terms of intelligent
PEU - S		e to aid computers pe nderstanding human			•
PEO - 4 r		e to be work productiv s through effective co			
PEO - 5	Successfully pursue h	nigher education in rep	outed institutions		
PEO - 6 [Be able to embrace li	felong learning to mee	et ever changing deve	lopments in computer	science
4. Con	sistency of PEO's w	vith Mission of the D	epartment		
	Mission Stmt 1	Mission Stmt 2	Mission Stmt 3	Mission Stmt 4	Mission Stmt 5
PEO - 1 I	Н	Н	Н	Μ	М
PEO - 2	Н	Н	Н	М	М
PEO - 3 I	Н	Н	М	Μ	Н
PEO - 4 I	Н	Н	М	Н	Н
PEO - 5 I	H	Н	Н	Н	Н
PEO - 6 I	H	Н	Н	Н	Н

5. Cor	nsister	ncy of F	PEO's v	vith Pro	ogram	Learnii	ng Outo	comes	(PLO)						
						Progra	m Lear	ning Ou	utcomes	s (PLO)					
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.
	Scientific Knowledge	Problem Analysis	Design & Development	Analysis, Design, Research	Modern Tool Usage	Society & Culture	Environment & Sustainability	Ethical Reasoning	Individual & Team Work	Communication	Project Mgt. & Finance	Life Long Leaming	Critical Thinking	Reflective Thinking	Scientific Reasoning
PEO - 1	Н	Н	Н	М	Н	L	Н	L	Н	L	L	Н	Н	Н	Н
PEO - 2	Н	Н	Н	М	Н	L	М	L	Н	L	L	Н	Н	Н	Н
PEO - 3	Н	Н	Н	М	Н	М	М	L	Н	L	L	Н	Н	Н	Н
PEO - 4	М	М	М	Н	L	L	Н	Н	Н	Н	М	L	L	L	L

PEO - 5 M	М	М	Н	М	L	М	L	Н	L	L	Н	Н	Н	Н
PEO - 6 H	М	М	М	L	L	М	L	L	L	L	Н	L	L	L

 $\rm H-High$ Correlation, $\rm M-Medium$ Correlation, $\rm L-Low$ Correlation

PSO – Program Specific Outcomes (PSO)

PSO-1	Ability to learn Artificial Intelligence and its relative fields
PSO-2	Ability to create new techniques, develop algorithms and validate in the field of Artificial Intelligence
PSO-3	Ability to develop systems using techniques and tools in the field of Artificial Intelligence

Program Structure: B.Tech. In Artificial Intelligence

1. Huma	nities & Social Sciences includin Courses (H)	ıg Ma	nag	emer	nt
Course	Course Title	Hou	ırs/w	eek	C
Code	Course Thie	L	Т	Р	C
18LEH101J	English	2	0	2	3
18LEH102J	Chinese				
18LEH103J	French				
18LEH104J	German	2	0	2	3
18LEH105J	Japanese				
18LEH106J	Korean				
18PDH101T	General Aptitude	0	0	2	1
18AIH201T	Professional Ethics of Artificial Intelligence	2	0	0	2
18PDH201T	Employability Skills and Practices	0	0	2	0
	Total Learning Credits				9

	3. Engineering Science Course	es (S))		
C C 1	C T'd	Ho	urs/w	reek	C
Course Code	Course Title	L	Т	Р	С
18AIS101J	Introduction to MATLAB for Artificial Intelligence	1	0	4	3
18EES101J	Basic Electrical and Electronics Engineering	3	1	2	5
18CSS101J	Programming for Problem Solving	3	0	4	5
18AIS102J	Smart Manufacturing	1	0	4	3
18AIS201T	Linear Systems and Signal Processing	3	0	0	3
18AIS202T	Digital Logic and Computer Architecture	3	0	0	3
18AIS203J	Computer Networks and Communications	2	0	2	3
	Total Learning Credits				25

5. Professional Elective Courses (E) (Any 6 Elective Courses)

5. Profess	sional Elective Courses (E) (Any 6 Ele	ective	Cou	rses	
Course Code	Course Title	Hou	urs/w	veek	C
Course Code	Course Thie	L	Т	Р	С
18AIE321T	Optimization Techniques	3	0	0	3
18AIE322T	Stochastic Decision Making	3	0	0	3
18AIE323T	Information Theory and Coding	3	0	0	3
18AIE324T	Cognitive Science & Analytics	3	0	0	3
18AIE325T	Internet of Things Architecture and Protocols	3	0	0	3
18AIE326T	Intelligent Autonomous Systems	3	0	0	3
18AIE327T	Intelligence of Biological Systems	3	0	0	3
18AIE328T	Marketing Analytics	3	0	0	3
18AIE329T	Information Retrieval	3	0	0	3
18AIE330T	Text Processing	3	0	0	3
18AIE331T	Advanced Social, Text and Media Analytics	3	0	0	3
18AIE332T	Image and Video processing	3	0	0	3
18AIE333T	Biometrics	3	0	0	3
18AIE334T	Pattern Recognition Techniques	3	0	0	3
18AIE335T	Surveillance Video Analytics	3	0	0	3
18AIE336T	Medical Signal Processing	3	0	0	3
18AIE337T	Speech Recognition and Understanding	3	0	0	3
18AIE338T	Logic and Knowledge Representation	3	0	0	3
18AIE339T	Matrix theory for Artificial Intelligence	3	0	0	3

	2. Basic Science Courses (D)					
Course	Course Title	Hour					
Code	Course Thie	L	Т	Р	C		
18MAB101T	Calculus and Linear Algebra	3	1	0	4		
18MAB102T	Advanced Calculus and Complex Analysis	3	1	0	4		
18PCB101J	Engineering Physics, Chemistry and Biology	3	1	2	5		
18MAB201T	Transforms and Boundary Value Problems	3	1	0	4		
18MAB206T	Numerical Methods and Analysis	3	1	0	4		
18MAB304T	Probability and Applied Statistics	3	1	0	4		
18MAB302T	Discrete Mathematics for Engineers	3	1	0	4		
	Total Learning Credits				29		

	4. Professional Core Courses (C)			
Course		Hou	rs/w	eek	
	С				
Course CodeCourse TitleLTP18AIC101JFoundation of Data Analysis302418AIC201JFoundation of Artificial Intelligence202318AIC202JData Structure and its Applications302418AIC203JObject Oriented Design and Programming302418AIC204TSoftware Engineering Principles300318AIC205JNeural Networks and Machine Learning302418AIC206JAnalysis and Design of Algorithms3024					
Course CodeHourse TitleHourse LTP18AIC101JFoundation of Data Analysis302418AIC201JFoundation of Artificial Intelligence202318AIC202JData Structure and its Applications302418AIC203JObject Oriented Design and Programming302418AIC204TSoftware Engineering Principles302418AIC205JNeural Networks and Machine Learning302418AIC206JAnalysis and Design of Algorithms3024					
$ \begin{array}{c c} Course \\ Code \\ \hline \\ Course Title \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $					
$\begin{array}{c c} Course \\ Code \end{array} \begin{array}{c c} Course Title \end{array} \begin{array}{c c} Hours/weak \\ L & T \\ P \end{array} \begin{array}{c c} P \end{array} \end{array} \\ \hline \\ 18AIC101J \\ Foundation of Data Analysis \\ 3 & 0 \\ 2 \\ 4 \end{array} \\ 18AIC201J \\ Foundation of Artificial Intelligence \\ 2 \\ 0 \\ 2 \\ 3 \end{array} \\ \hline \\ 18AIC202J \\ Data Structure and its Applications \\ 3 \\ 0 \\ 2 \\ 4 \end{array} \\ \hline \\ 18AIC203J \\ Programming \\ Programming \\ \hline \\ 18AIC203J \\ Programming \\ \hline \\ 18AIC204T \\ Software Engineering Principles \\ 3 \\ 0 \\ 2 \\ 4 \\ \hline \\ 18AIC205J \\ Learning \\ \hline \\ 18AIC206J \\ Analysis and Design of \\ Algorithms \\ \hline \\ 18AIC206J \\ Analysis and Design of \\ Algorithms \\ \hline \\ 18AIC206J \\ Analysis and Design of \\ Algorithms \\ \hline \\ 18AIC208J \\ Operating System Design \\ \hline \\ 1 \\ 18AIC208J \\ Operating System Design \\ \hline \\ 1 \\ 18AIC209T \\ Foundation of Metric Spaces \\ \hline \\ 1 \\ 1 \\ 0 \\ 0 \\ 1 \\ \hline \\ 18AIC302J \\ Heinforcement Learning Techniques \\ \hline \\ 3 \\ 0 \\ 2 \\ 4 \\ \hline \\ 18AIC304J \\ Reinforcement Learning Techniques \\ 2 \\ 0 \\ 2 \\ 3 \\ \hline \\ 18AIC305T \\ Inferential Statistics and Predictive \\ Analytics \\ Analytics \\ 1 \\ 18AIC305J \\ Design of Artificial Intelligence \\ \hline \\ 1 \\ 18AIC305J \\ Inferential Statistics and Predictive \\ Analytics \\ 1 \\ 18AIC305J \\ Inferential Statistics and Predictive \\ Analytics \\ 1 \\ 18AIC306J \\ Design of Artificial Intelligence \\ \hline \\ 1 \\ 18CSC306L \\ Competitive Professional Skills - II \\ \hline \\ 0 \\ 0 \\ 2 \\ 1 \\ 18CSC307L \\ Competitive Professional Skills - III \\ \hline \\ 0 \\ 0 \\ 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	4				
Course CodeCourse TitleHours/week LTP18AIC101JFoundation of Data Analysis302418AIC201JFoundation of Artificial Intelligence202318AIC202JData Structure and its Applications302418AIC203JObject Oriented Design and Programming302418AIC204TSoftware Engineering Principles300318AIC205JNeural Networks and Machine Learning302418AIC206JAnalysis and Design of Algorithms302418AIC206JDatabase Management Systems for Artificial Intelligence202318AIC207JDatabase Management Systems for Artificial Intelligence100118AIC208JOperating System Design202418AIC301JDeep Learning Techniques302418AIC302JWeb Programming for Artificial Intelligence302418AIC303TFormal Language and Automata Theory302318AIC304JReinforcement Learning Techniques202318AIC306JDesign of Artificial Intelligence Products202318AIC306JDesign of Artificial Intelligence Products2023					
$ \begin{array}{c c} Course \\ Code \end{array} \begin{array}{c c} Hours/week \\ L & T \\ P \end{array} \begin{array}{c c} T \\ 18AIC101J \\ Foundation of Data Analysis \\ 3 & 0 \\ 2 \\ 4 \\ 18AIC201J \\ Foundation of Artificial Intelligence \\ 2 \\ 0 \\ 2 \\ 3 \\ 18AIC202J \\ Data Structure and its Applications \\ 3 \\ 0 \\ 2 \\ 4 \\ 18AIC203J \\ Programming \\ 18AIC204T \\ Software Engineering Principles \\ 3 \\ 0 \\ 2 \\ 4 \\ 18AIC205J \\ Learning \\ 18AIC205J \\ Learning \\ 18AIC206J \\ Analysis and Design of \\ Algorithms \\ 18AIC206J \\ Analysis and Design of \\ Algorithms \\ 18AIC207J \\ Database Management Systems for \\ Algorithms \\ 18AIC208J \\ Operating System Design \\ 1 \\ Alloc208J \\ Operating System Design \\ 1 \\ Alloc209T \\ Foundation of Metric Spaces \\ 1 \\ 10 \\ 0 \\ 1 \\ 18AIC302J \\ Web Programming for Artificial \\ Intelligence \\ 1 \\ Alloc303T \\ Formal Language and Automata \\ Theory \\ 18AIC304J \\ Reinforcement Learning Techniques \\ 2 \\ 0 \\ 2 \\ 3 \\ 0 \\ 2 \\ 3 \\ 0 \\ 2 \\ 4 \\ 3 \\ 0 \\ 0 \\ 3 \\ 0 \\ 2 \\ 3 \\ 0 \\ 2 \\ 3 \\ 0 \\ 2 \\ 4 \\ 18AIC304J \\ Reinforcement Learning Techniques \\ 2 \\ 0 \\ 2 \\ 3 \\ 0 \\ 0 \\ 3 \\ 0 \\ 2 \\ 4 \\ 3 \\ 0 \\ 0 \\ 3 \\ 0 \\ 2 \\ 4 \\ 3 \\ 0 \\ 0 \\ 3 \\ 0 \\ 0 \\ 3 \\ 18AIC304J \\ Reinforcement Learning Techniques \\ 2 \\ 0 \\ 2 \\ 3 \\ 0 \\ 0 \\ 3 \\ 0 \\ 0 \\ 3 \\ 0 \\ 0 \\ 3 \\ 0 \\ 0$	4				
18AIC206J		3	0	2	4
18AIC207J		2	0	2	3
18AIC208J	Operating System Design	2	0	2	3
18AIC209T	Foundation of Metric Spaces	1	0	0	1
18AIC301J	Deep Learning Techniques	3	0	2	4
18AIC302J		3	0	2	4
18AIC303T		3	0	0	3
CodeCourse TitleLTP18AIC101JFoundation of Data Analysis302418AIC201JFoundation of Artificial Intelligence202318AIC202JData Structure and its Applications302418AIC203JObject Oriented Design and Programming302418AIC204TSoftware Engineering Principles300318AIC205JNeural Networks and Machine Learning302418AIC206JAnalysis and Design of Atlgorithms302418AIC206JDatabase Management Systems for Artificial Intelligence202318AIC208JOperating System Design202318AIC209TFoundation of Metric Spaces100118AIC301JDeep Learning Techniques302418AIC302JWeb Programming for Artificial Intelligence302418AIC304JReinforcement Learning Techniques302318AIC305TInferential Statistics and Predictive Analytics202318AIC306JDesign of Artificial Intelligence Products202318AIC306LCompetitive Professional Skills - I002118CSC306LCompetitive Professional Skills-III0021	3				
Course CodeCourse TitleHours/week LTP18AIC101JFoundation of Data Analysis302418AIC201JFoundation of Artificial Intelligence202318AIC202JData Structure and its Applications302418AIC203JObject Oriented Design and Programming302418AIC205JNeural Networks and Machine Learning302418AIC206JAnalysis and Design of Algorithms302418AIC207JDatabase Management Systems for Artificial Intelligence302318AIC208JOperating System Design202318AIC208JOperating System Design100118AIC301JDeep Learning Techniques302418AIC302JWeb Programming for Artificial Intelligence302418AIC303TFormal Language and Automata Theory302318AIC305TInferential Statistics and Predictive Analytics202318AIC306JDesign of Artificial Intelligence Products202318AIC306LCompetitive Professional Skills - II002118CSC306LCompetitive Professional Skills - III0021					
Course CodeCourse TitleHours/week LTP18AIC101JFoundation of Data Analysis302418AIC201JFoundation of Artificial Intelligence202318AIC202JData Structure and its Applications302418AIC203JObject Oriented Design and Programming302418AIC204TSoftware Engineering Principles300318AIC205JNeural Networks and Machine Learning302418AIC206JAnalysis and Design of Algorithms302418AIC206JDatabase Management Systems for Artificial Intelligence202318AIC207JDatabase Management Systems for Artificial Intelligence302418AIC208JOperating System Design202318AIC209TFoundation of Metric Spaces100118AIC301JDeep Learning Techniques302418AIC303TFormal Language and Automata Theory302318AIC305TInferential Statistics and Predictive Analytics202318AIC305JDesign of Artificial Intelligence Products202318AIC305LCompetitive Professional Skills - I002118CSC30FLCompetitive Professional Skills - III0021 </td					
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	1				
	18CSC350T	Comprehension	0	1	0
	Total Learning Credits				56

	Critical and Creative Thinking Skills Business Basics for Entrepreneurs		0 0	0	2	0
18PDM203L 18PDM203L	Entrepreneurial Skill Development		0	0	2	0
18GNM10XL 18PDM201L	Competencies in Social Skills		0	0	2	0
18LEM102J 18GNM10XL	Value Education NCC / NSS / NSO		1 0	0	1 2	0
18GNM101L	Physical and Mental Health using Yo	ga	0	0	2	0
18LEM101T	Constitution of India		1	0	0	0
18PDM 101L	Professional Skills & Practices		0	0	2	0
Course Code	Course Title	L		Т	Р	С
	8. Mandatory Courses (M)					
	Total Learning Credits				-	1:
18AIP104L	Project (Phase-II) / Semester Internship	0	0	2	20	1(
18AIP103L	Project (Phase-I) Internship (4-6weeks)	0	0		6	3
18AIP102L	MOOC / Industrial Training / Seminar 2	0	0		2	1
18AIP101L	MOOC / Industrial Training / Seminar 1	0	0		2	1
Course Code	Course Title	L	Т	-	Р	С
	Technical Institutions (P)	H	ours	/we	eek	
7. Project	Work, Seminar, Internship In In	<mark>dust</mark>	try /	Hi	<mark>ghe</mark>	
	AlE433T Nature Inspired Computing 3 0 0 3 AlE433T Bio Informatics 3 0 0 3 AlE434T Bio Informatics 3 0 0 3 AlE435T Theoretical and Computational Neuroscience 3 0 0 3 AlE435T Autonomous Navigation and Vehicles 3 0 0 3 AlE436T Autonomous Navigation and Vehicles 3 0 0 3 AlE437T Mobile Game Development 3 0 0 3 Total Learning Credits 18 18 7. Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P) 18 ourse Code Course Title C					
18AIE436T 18AIE437T	$\begin{array}{c c c c c c c c c c c c c c c c c c c $					
18AIE435T	Theoretical and Computational Neuroscience	3	0	0		3
18AIE433T 18AIE434T	· · · ·	-	-	-		-
18AIE432T	Brain Machine Interface	3	0	0		3
18AIE4301	Big Data Analytics: Hadoop, Spark and	3	0	0		<u>3</u>
18AIE429T 18AIE430T	Cloud Computing Distributed Systems	3	0	0		3
18AIE428T	Time Series Analysis	3	0	0		3
18AIE426T 18AIE427T	Virtual Reality and Augmented Reality Data Mining and Analytics	3 3	0 0	0		3 3
18AIE425T	Things Compiler Design	3	0	0		3
18AIE423T	Business Intelligence and Analytics Artificial Intelligence and Internet of	3	0 0	0		3
18AIE422T	Performance Computing	3		Ē		3
18AIE421T 18AIE422T	Soft Computing and its Applications Artificial Intelligence and High-	3	0 0	0		3 3

0. Open I	Elective Courses (O) (Any 3 Ope	en El	ectiv	e Co	ourses)
	Smart Healthcare	т	т	D	
	Diamatariala and Artificial	L	T	P	2
0	Biomaterials and Artificial Organs	3	0	0	3
0	Machine Vision in Medical Technology	3	0	0	3
0	Home Medicare Technology	3	0	0	3
0	Computational Methods for Signal and Image Processing	3	0	0	3
0	Acoustics and Optical Imaging	3	0	0	3
0	Body Area Networks and Mobile Healthcare	3	0	0	3
0	Medical Electronics	3	0	0	3
0	Human Genetics	3	0	0	3
0	Recombinant DNA Technology	3	0	0	3
	Robotics				
0	Fundamentals of Robotics	3	0	0	3
0	Machine Vision and Image Processing	3	0	0	3
0	Sensors and Signal Conditioning	3	0	0	3
0	Robot Kinematics and Dynamics	3	0	0	3
0	Robot Control Programming	3	0	0	3
0	Intelligent Vehicle Technology	3	0	0	3
0	Automotive Communication Protocols	3	0	0	3
	Infrastructure				
0	Intelligent Transportation Systems	3	0	0	3
0	Urban Planning And Sustainable Development	3	0	0	3
0	Intelligent Irrigation System	3	0	0	3
0	Geographical Information System	3	0	0	3
0	Remote Sensing And Its Applications	3	0	0	3
0	RS And GIS For Environmental Engineering	3	0	0	3
	Business Analytics				
0	Information Management	3	0	0	3
0	Managerial Skills and Communication	3	0	0	3
0	Research Methods in Business	3	0	0	3
0	Social Media and Digital Marketing	3	0	0	3
	Cyber Security and Intelli	genc	е		
0	Cryptography and Network Security	3	0	0	3
0	Security Scripting and Analysis	3	0	0	3
0	Storage Management and Security	3	0	0	3
0	Cyber Law and Ethics	3	0	0	3
0	Agriculture				
0	Agricultural Finance and Cooperation	3	0	0	3
0	Fundamentals of Agricultural Extension Education	3	0	0	3
0	Agricultural Marketing Trade and Prices	3	0	0	3
0	Entrepreneurship Development and Business communication	2	0	0	2
tal Learnin	g Credits				9



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

Kattankulathur, Kancheepuram District 603203, Tamil Nadu, India

B.Tech. in ARTIFICIAL INTELLIGENCE (4 years)

Curriculum – Regulations 2018

	Seme	ster - I						1			Semeste	er - II				
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		ie litte		L	Т	Ρ					Course	litie	L	Т	Ρ	
	18MAB101T Calculus and Linear Algebra 18AIS101J Introduction to MATLAB for Artificial Intelligence 18EES101J Basic Electrical and Electronics Engined 18CSS101J Programming for Problem Solving 18PDM 101L Professional Skills & Practices 18LEM101T Constitution of India 18BCM101L Physical and Mental Health using Yoga 18GNM101L Physical and Mental Health using Yoga 18AIC201J Foundation of Artificial Intelligence 18AIC202J Data Structure and its Applications 18AIC203J Object Oriented Design and Programmin 18AIC204T Software Engineering Principles 18AIC204T Digital Logic and Computer Architecture 18PDM201L Competencies in Social Skills 18PDM203L Entrepreneurial Skill Development Total Learning Total Learning 18AIC301J Deep Learning Techniques 18AIC302J Web Programming for Artificial Intelliger 18AIC303T Formal Language and															
	Code Course Title 18LEH101J English 18MAB101T Calculus and Linear Algebra 18MAB101J Introduction to MATLAB for Artificial Intelligence 18AIS101J Introduction to MATLAB for Artificial Intelligence 18EES101J Basic Electrical and Electronics Eng 18CSS101J 18DDM 101L Programming for Problem Solving 18DDM 101L Professional Skills & Practices 18LEM101T Constitution of India 18GNM101L Physical and Mental Health using Y Total Learn 8GNM101L Physical and Mental Health using Y Total Learn 18AG201T Transforms and Boundary Value Prints 18AIC201J Foundation of Artificial Intelligence 18AIC201J Dotect Oriented Design and Program 18AIC201T Linear Systems and Signal Process 18AIS202T Digital Logic and Computer Architect 18PDM201L Competencies in Social Skills 18PDM203L Entrepreneurial Skill Development Total Learn Total Learn									Chinese / Fre	ench / Germa	n / Japanese/	2	0	2	
18AIS101J	18AIS101J Introduction to MATLAB for Artificial Intelligence 18EES101J Basic Electrical and Electronics Eng 18CS101J Programming for Problem Solving 18PDM 101L Professional Skills & Practices 18LEM101T Constitution of India 18GNM101L Physical and Mental Health using Yes Total Learn Total Learn 18MAB201T Transforms and Boundary Value Program 18AIC201J Foundation of Artificial Intelligence 18AIC202J Data Structure and its Applications 18AIC203J Object Oriented Design and Program 18AIC204T Software Engineering Principles 18AIS201T Linear Systems and Signal Process 18AIS202T Digital Logic and Computer Architecc 18APC2041 Competencies in Social Skills					4	3			Korean			2		2	
18EES101J	Code Course Title 18LEH101J English 18MAB101T Calculus and Linear Algebra 18AIS101J Introduction to MATLAB for Artificial Intelligence 18EES101J Basic Electrical and Electronics Eng 18CSS101J 18DM 101L Professional Skills & Practices 18LEM101T Constitution of India 18GNM101L Physical and Mental Health using Y Total Lean 18GNM101L Physical and Mental Health using Y Total Lean 18AIC201J Foundation of Artificial Intelligence 18AIC201J Foundation of Artificial Intelligence 18AIC202J Data Structure and its Applications 18AIC203J Object Oriented Design and Prograzi 18AIC204T Software Engineering Principles 18AIS201T Linear Systems and Signal Process 18AIS202T Digital Logic and Computer Archited 18AIS202T Digital Logic and Computer Archited 18AIS201T Linear Systems and Signal Process 18AIS202T Digital Logic and Computer Archited 18AIS202T Digital Logic and Computer Archited 18AIS202T Digital Logic and Computer Archited <				1	2	5		18LEH106J							
	Semester - I Code Course Title 18LEH101J English 18MAB101T Calculus and Linear Algebra 18AIS101J Introduction to MATLAB for Artificial Intelligence 18ES101J Basic Electrical and Electronics Engineerin 18ES5101J Programming for Problem Solving 18DDM 101L Professional Skills & Practices 18LEM101T Constitution of India 18CSS101J Programming for Problem Solving 18CSS101J Programming for Problem Solving 18CSS101J Frogramming for Problem Solving 18CSS101J Frogramming for Problem Solving 18CS202D Transforms and Boundary Value Problems 18AIC202J Data Structure and its Applications 18AIC202J Data Structure and its Applications 18AIS202T Digital Logic and Computer Architecture 18APDM203L Entrepreneurial Skill Development 18PDM203L Corpetencies in Social Skills 18AIC303T Deep Learning Tockniticial Intelligence 18AIC303T Deep Learning Tor Artificial Intelligence 18AIC303T Deronal Elective - 1					4	5		18MAB102T				3	1	0	
	Semester - I Code Course Title 18LEH1011 English 18MAB101T Calculus and Linear Algebra 18AIS1011 Introduction to MATLAB for Artificial Intelligence 18EES1011 Basic Electrical and Electronics Engineering 18CS31011 18GCS31011 Professional Skills & Practices 18ELM101T Constitution of India 18GNM101L Professional Skills & Practices 18BGNM101L Physical and Mental Health using Yoga Total Learning Cre Total Learning Cre 18AL2017 Transforms and Boundary Value Problems 18AL2021 Foundation of Artificial Intelligence 18AL2021 Jobject Oriented Design and Programming 18AL2021 Linear Systems and Signal Processing 18AL2021 Linear Systems and Signal Processing 18AL2021 Digital Logic and Computer Architecture 18AS2021 Competencies in Social Skills 18APDM2032 Entrepreneurial Skill Development 18AL2023 Diget Legic and Computer Architecture 18AL2033 Formal Language and Automata Theory 18AL2033 Formal Language and Aut		0	0	2	0						3	0	2		
						-					mistry and Biology	3	1	2		
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	Code Course Title LEH101J English AAB101T Calculus and Linear Algebra Introduction to MATLAB for Artificial Intelligence Introduction to MATLAB for Artificial Intelligence EES101J Basic Electrical and Electronics Engine SSS101J Programming for Problem Solving PDM 101L Professional Skills & Practices EM101T Constitution of India SNM101L Physical and Mental Health using Yog Total Learnin Total Learnin MAB201T Transforms and Boundary Value Prob MC202J Data Structure and its Applications MIC201J Foundation of Artificial Intelligence MA2021T Innear Systems and Signal Processing MI2021D Digital Logic and Computer Architectu PDM201L Competencies in Social Skills PDM201D Competencies in Social Skills PDM203L Entrepreneurial Skill Development Total Learning Total Learning MAB304T Probability and Applied Statistics MAC302J Web Programming for Artificial Intelligence MAC302J Web Programming for Artificial Intelligence MAC302J										and Deed					
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Professional Electives

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Students should choose Professional Elective courses for VII semester from 400 series in category I, IV & V. List will be expanded

Open Elective Courses

		Hours/									
Code	Course Title		Week		С			Hours/			
			Т	Ρ		Code	Course Title	Week			С
							LTF		Ρ		
0	O Biomaterials and Artificial Organs		0	0	3		Robotics	1=	لت	•	
O Machine Vision in Medical Technology		3	0	0	3					•	_
0	O Home Medicare Technology		0	0	3	0	Fundamentals of Robotics	3	0	0	3
0	Computational Methods for Signal and Image		_	0	3	0	Machine Vision and Image Processing	3	0	0	3
	Processing	3	0	0	3	0	Sensors and Signal Conditioning	3	0	0	3
0	Acoustics and Optical Imaging	3	0	0	3	0	Robot Kinematics and Dynamics	3	0	0	3
0	Body Area Networks and Mobile Healthcare	3	0	0	3	0	Robot Control Programming	3	0	0	3
0	Medical Electronics	3	0	0	3	0	Intelligent Vehicle Technology	3	0	0	3
0	Human Genetics	3	0	0	3	0	Automotive Communication Protocols	3	0	0	3
0	Recombinant DNA Technology	3	0	0	3						
		Но	urs	1							
Code	Course Title		Week L T P		С			Hours/			
					ΤP		1	Code	Course Title	Week	
	Infrastructure							L	Т	Ρ	
0	Intelligent Transportation Systems	3	0	0	3		Business Analytics				
0	Urban Planning And Sustainable Development	3	0	0	3	0	Information Management	3	0	0	3
0	Intelligent Irrigation System	3	0	0	3	0	Managerial Skills and Communication	3	0	0	3
0	Geographical Information System	3	0	0	3	0	Research Methods in Business	3	0	0	3
0	Remote Sensing And Its Applications	3	0	0	3	0	Social Media and Digital Marketing	3	0	0	3
0	RS And GIS For Environmental Engineering	3	0	0	3	-		- X			
								Но	ours	Ι	

					1			Ho			
Code	Course Title		Hours/ Week C		с	Code	Course Title	W.	eek T	·	С
		L	Т	Ρ			Agriculture				
	Cyber Security and Intellig	genc	e			0	Agricultural Finance and Cooperation	3	0	0	3
0	Cryptography and Network Security	3	0	0	3	0	Fundamentals of Agricultural Extension	3	0	0	2
0	Security Scripting and Analysis	3	0	0	3		Education	3	0	0	3
0	Storage Management and Security	3	0	0	3	0	Agricultural Marketing Trade and Prices	3 3	0	0	3
0	Cyber Law and Ethics	3	0	0	3	0	Entrepreneurship Development and Business communication	2	0	0	2

Students should choose their open electives only from the list given above. Students are advised to choose their all 3 open elective from any one of the domain given above.