



Department of Computer Science and Engineering

Minutes of 9th Board of Studies Meeting (UG)

The Ninth Board of Studies meeting of Computer Science and Engineering Department was held on **14th March 2025 at 2:00 P.M** at Seminar Hall, Computer science department, Sri Manakula Vinayagar Engineering College, with Head of the Department in the Chair through online mode.

The following members were present for the BoS meeting

Sl.No	Name of the Member with Designation and official Address	Responsibility in the BoS
1.	Dr.K. Premkumar, M.E., Ph.D., Professor and Head Sri Manakula Vinayagar Engineering College Madagadipet,Puducherry hodcse@smvec.ac.in 9842127679	Chairperson
2.	Dr. M. Shanmugam, M.E.,Ph.D., Associate Professor, Sri Manakula Vinayagar Engineering College Madagadipet,Puducherry shanmugam.mm@smvec.ac.in 9444370963	Member Secretary
3.	Dr. T. CHITHRALEKHA Professor, Department of Computer Science, School of Technology, Pondicherry University, Puducherry tchithralekha.csc@pondiuni.edu.in	Subject Expert (Pondicherry University Nominee)
4.	Dr. M. Ramakrishnan Professor and Head, School of Information Technology, Department of Computer Applications, Madurai Kamaraja University, Madurai. Ph:8939432261 Mail id: ramkrishod@gmail.com	Subject Expert (Academic Council Nominee)
5.	Dr. A. Kalaivani Professor, Department of Information Technology, Rajalakshmi Engineering College, Chennai. 7904977893 Mail: kalaivanianbarasan@rediffmail.com	Subject Expert (Academic Council Nominee)
6.	Aroulvel S Technical leader, Cisco, Bangalore	Representative from Industry

	aroshanm@cisco.com, 9003898387	
7.	Shakin Banu. H Design Engineer Specialist British Telecommunication, UK shakin2cse@gmail.com 9791854301	Postgraduate Alumnus (nominated by the Principal)
8.	Dr. M. Ganesan, M.E., Ph.D., Associate Professor Sri Manakula Vinayagar Engineering College Madagadipet, Puducherry ganesan@smvec.ac.in 9486341535	Internal Member
9.	Dr. R. Ramachandiran, M.Tech., Ph.D., Associate Professor Sri Manakula Vinayagar Engineering College Madagadipet, Puducherry ramachandiran@smvec.ac.in 7639031674	Internal Member
10.	Dr. T. Megala, M.Tech., Ph.D., Associate Professor Sri Manakula Vinayagar Engineering College Madagadipet, Puducherry Email :Megalag26@gmail.com 9789722271	Internal Member
11.	Dr. N. Pazhaniraja Associate Professor, Computer Science and Engineering, Sri Manakula Vinayagar Engineering College Email:pazhaniraja.cse@smvec.ac.in	Internal Member
12.	Mr. P. Karthikeyan Associate Professor, Computer Science and Engineering, Sri Manakula Vinayagar Engineering College Madagadipet, Puducherry Email:karthikcse@smvec.c.in	Internal Member
13.	Mr.B.Thiyagarajan Assistant Professor Sri Manakula Vinayagar Engineering College Email:thiyagarajan@smvec.ac.in	Internal Member
14.	Mr.S.Kumarakrishnan Assistant Professor Sri Manakula Vinayagar Engineering College Madagadipet, Puducherry Email:Skumarakrishnan@smvec.ac.in	Internal Member
15.	Mrs.C.Kalpana Assistant Professor Sri Manakula Vinayagar Engineering College Madagadipet, Puducherry Email:ckalpana@smvec.ac.in	Internal Member

16.	Mrs.P.Bhavani Assistant Professor Sri Manakula Vinayagar Engineering College Madagadipet,Puducherry Email:Bhavani@ smvec.ac.in	Internal Member
17.	Mr.D.Rajesh Assistant Professor Sri Manakula Vinayagar Engineering College Madagadipet,Puducherry Email:successraju@gmail.com	Internal Member
18.	Mr.Arokiaraj Christian Hubert Assistant Professor Sri Manakula Vinayagar Engineering College Madagadipet,Puducherry Email:Arokiaraj@smvec.ac.in	Internal Member
19.	Ms.Swathilakshmi.V Assistant Professor Sri Manakula Vinayagar Engineering College Madagadipet,Puducherry Email:Swathilakshmi@gmail.com	Internal Member
20.	Mrs.S.Subasree Assistant Professor Sri Manakula Vinayagar Engineering College Madagadipet,Puducherry Email:Subasree@smvec.ac.in	Internal Member
21.	Mrs.S.Deeba Assistant Professor Sri Manakula Vinayagar Engineering College Madagadipet,Puducherry Email:deebacse@smvec.ac.in	Internal Member
22.	Mrs. R. Deepa Assistant Professor Sri Manakula Vinayagar Engineering College Madagadipet,Puducherry Email:deepa.cse@smvec.ac.in	Internal Member
23.	Mrs.C.Karthika Assistant Professor Sri Manakula Vinayagar Engineering College Madagadipet,Puducherry Email:karthikacse@smvec.ac.in	Internal Member
24.	Mr.K. Anbuthiruvarangan Assistant Professor Sri Manakula Vinayagar Engineering College Madagadipet,Puducherry Anbuthiruvarangan.cse@smvec.ac.in	Internal Member
25.	Mrs.N.Suganya Assistant Professor Sri Manakula Vinayagar Engineering College Madagadipet,Puducherry Suganya.cse@smvec.ac.in	Internal Member
26.	Ms.N.Pavithra Assistant Professor	Internal Member

	Sri Manakula Vinayagar Engineering College Madagadipet, Puducherry Pavithra.cse@smvec.ac.in	
27.	Mrs.M.Hemalatha Assistant Professor Sri Manakula Vinayagar Engineering College Madagadipet, Puducherry hemalatha.cse@smvec.ac.in	Internal Member
28.	Ms.V.Nivetha Assistant Professor Sri Manakula Vinayagar Engineering College Madagadipet, Puducherry nivetha.cse@smvec.ac.in	Internal Member
29.	Ms.A.Mohanapriya Assistant Professor Sri Manakula Vinayagar Engineering College Madagadipet, Puducherry mohanapriya.cse@smvec.ac.in	Internal Member
30.	Ms.A.Amala Margret Assistant Professor Sri Manakula Vinayagar Engineering College Madagadipet, Puducherry amalamargret.cse@smvec.ac.in	Internal Member
31.	Mrs.Renu Assistant Professor Sri Manakula Vinayagar Engineering College Madagadipet, Puducherry renu.cse@smvec.ac.in	Internal Member
32.	Mr.M.Elamaran Associate Professor, Department of English, SMVEC	Internal Member
33.	Dr.T.Jayavarthan Professor, Department of Physics, SMVEC	Internal Member
34.	Dr.S.Savithiri Professor and Head, Department of Chemistry, SMVEC	Internal Member
35.	Dr.K.Raja Assistant Professor, Department of Mathematics, SMVEC	Internal Member



Department of Computer Science and Engineering

Minutes of 9th Board of Studies Meeting
(M.Tech – Computer Science and Engineering)
M.Tech- Computer Science Engineering (Big Data and Analytics)

Agenda of the Meeting

Item No. : BoS/ PG/CSE/BDA 9.1	Welcome Address and to confirm the minutes of the eighth meeting of Board of Studies held on 30.08.2024.
Item No. : BoS/ PG/CSE/BDA 9.2	To discuss and approve the Curriculum for 1 to 4 semesters and syllabi: (Already discussed)
Item No. : BoS/ PG/CSE/BDA 9.3	To apprise the End Semester Results of the students admitted in the Academic Year 2023-2025 (III sem), 2024-2026 (I sem) and to discuss about Extra-Curricular and Co-Curricular activities
Item No. : BoS/ PG/CSE/BDA 9.4	To apprise about the List of Courses for Professional Electives / Ability Enhancement Courses / Mandatory Courses under R-2023 for the students admitted from the academic Year 2023-24: (Already Discussed)
Item No. : BoS/ PG/CSE/BDA 9.5	Any other item with the permission of chair

Minutes of the Meeting

Dr. K.Premkumar, Chairman, BoS opened the meeting by welcoming and introducing the external members, to the internal members and the meeting thereafter deliberated on agenda items that had been approved by the Chairman.

Item No. : BoS/ PG/ CSE 9.1

Confirmation of minutes of 8th BoS meeting held on 30.08.2024.

Item No. : BoS/ PG/ BDA 9.2

To discuss and approve the Curriculum for 1 to 4 semesters and syllabi:
(Already discussed)

Discussed about the Curriculum and Syllabi for all four semesters of M.Tech (CSE) and M.Tech(BDA) and the curriculum is enclosed in **Annexure-VI**

Item No.:BoS/PG/BDA 9.3

To apprise the End Semester Results of the students admitted in the Academic Year 2023-2025 (III sem), 2024-2026 (I sem) and to discuss about Extra-Curricular and Co-Curricular activities

The panel discussed about Results of III and I semester and encouraged students to participate in Extra-Curricular and Co-Curricular activities

Item No.:BoS/PG/BDA 9.4

To apprise about the List of Courses for Professional Electives / Ability Enhancement Courses / Mandatory Courses under R-2023 for the students admitted from the academic Year 2023-24: (Already Discussed)

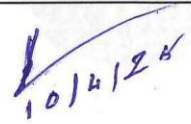

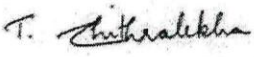
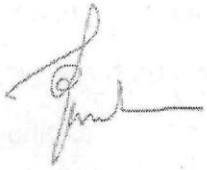
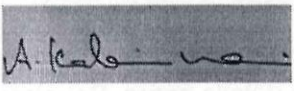

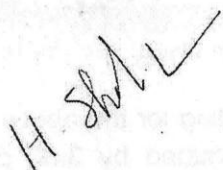
Discussed about the offering of List of Courses for Professional Electives / Ability Enhancement Courses / Mandatory Courses under R-2023 for the students admitted from the academic Year 2024-25 for M.Tech(CSE) and the same was approved by BoS members




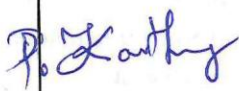



Item No.:BoS/PG/BDA 9.5


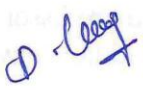






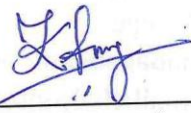
Any other item with the permission of chair








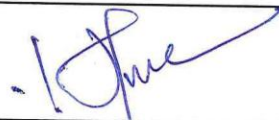
The panel discussed about bringing up new research topic in curriculum and to increase admission

The meeting for the above Agenda regarding **M.Tech – Computer Science and Engineering** and **M.Tech- Computer Science Engineering (Big Data and Analytics)** was concluded by 3:15 pm with by **Dr. K.Premkumar**, Chairman-BoS and Head of Department, Department of Computer Science and Engineering, Sri Manakula Vinayagar Engineering College.

Sl.No	Name of the Member with Designation and official Address	Responsibility in the BoS	Signature
1.	Dr.K. Premkumar, M.E., Ph.D., Professor and Head Sri Manakula Vinayagar Engineering College Madagadipet,Puducherry hodcse@smvec.ac.in 9842127679	Chairperson	 10/4/24
2.	Dr. M. Shanmugam, M.E., Ph.D Associate Professor, Sri Manakula Vinayagar Engineering College Madagadipet,Puducherry shanmugam.mm@smvec.ac.in 9444370963	Member Secretary	
3.	Dr. T. CHITHRALEKHA Professor, Department of Computer Science, School of Technology, Pondicherry University, Puducherry tchithralekha.csc@pondiuni.edu.in	Subject Expert (Pondicherry University Nominee)	
4.	Dr. M. Ramakrishnan Professor and Head, School of Information Technology, Department of Computer Applications, Madurai Kamaraja University, Madurai. Ph:8939432261 Mail id: ramkrishod@gmail.com	Subject Expert (Academic Council Nominee)	
5.	Dr. A. Kalaivani Professor, Department of Information Technology, Rajalakshmi Engineering College, Chennai. 7904977893 Mail: kalaivanianbarasan@rediffmail.com	Subject Expert (Academic Council Nominee)	
6.	Aroulvel S Technical leader, Cisco,Bangalore aroshanm@cisco.com, 9003898387	Representative from Industry	
7.	Shakin Banu. H Design Engineer Specialist British Telecommunication, UK shakin2cse@gmail.com 9791854301	Postgraduate Alumnus (nominated by the Principal)	
8.	Dr. M. Ganesan, M.E., Ph.D.,	Internal Member	

	Associate Professor Sri Manakula Vinayagar Engineering College Madagadipet, Puducherry ganesan@smvec.ac.in 9486341535		M. Ganesan
9.	Dr. R. Ramachandiran, M.Tech., Ph.D., Associate Professor Sri Manakula Vinayagar Engineering College Madagadipet, Puducherry ramachandiran@smvec.ac.in 7639031674	Internal Member	
10.	Dr. T. Megala, M.Tech., Ph.D., Associate Professor Sri Manakula Vinayagar Engineering College Madagadipet, Puducherry Email :Megalag26@gmail.com 9789722271	Internal Member	
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18.	Mr.Arokiaraj Christian Hubert Assistant Professor Sri Manakula Vinayagar Engineering College Madagadipet,Puducherry Email:Arokiaraj@smvec.ac.in	Internal Member	
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24.	Mr.K. Anbuthiruvarangan Assistant Professor Sri Manakula Vinayagar Engineering College	Internal Member	

	Madagadipet, Puducherry Anbuthiruvaraman.cse@smvec.ac.in		
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31.	Mrs.Renu Assistant Professor Sri Manakula Vinayagar Engineering College Madagadipet, Puducherry renu.cse@smvec.ac.in	Internal Member	
32.	Mr.M.Elamaran Associate Professor, Department of English, SMVEC	Internal Member	

33.	Dr.T.Jayavarthanan Professor, Department of Physics, SMVEC	Internal Member	J.J
34.	Dr.S.Savithiri Professor and Head, Department of Chemistry, SMVEC	Internal Member	SS.
35.	Dr.K.Raja Assistant Professor, Department of Mathematics, SMVEC	Internal Member	K.R



SRI MANAKULA VINAYAGAR **ENGINEERING COLLEGE**

(An Autonomous Institution)

Puducherry

(As per UGC - 2018 Regulations and Affiliated to Pondicherry University)

PUDUCHERRY – 605107

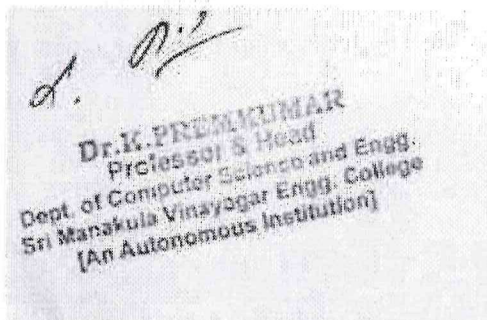
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

M.TECH.

COMPUTER SCIENCE AND ENGINEERING

(REGULATIONS - 2023)

CURRICULUM AND SYLLABI



2. A. 3. 99

M.Tech. Computer Science and Engineering

COLLEGE VISION AND MISSION

VISION

To be globally recognized for excellence in quality education, innovation and research for the transformation of lives to serve the society.

MISSION

- M1: Quality Education** : To provide comprehensive academic system that amalgamates the cutting edge technologies with best practices.
- M2: Research and Innovation** : To foster value-based research and innovation in collaboration with industries and institutions globally for creating intellectuals with new avenues.
- M3: Employability and Entrepreneurship** : To inculcate the employability and entrepreneurial skills through value and skill based training.
- M4: Ethical Values** : To instill deep sense of human values by blending societal righteousness with academic professionalism for the growth of society.

DEPARTMENT VISION AND MISSION

VISION

To create a productive learning and research environment for graduates to become highly dynamic, competent, ethically responsible, professionally knowledgeable in the field of computer science and engineering to meet the industrial needs on par with global standards.

MISSION

- M1: Quality Education:** Empowering the students with the necessary technical skills through quality education to grow professionally.
- M2: Innovative Research:** Advocating the innovative research ideas by incorporating with industries for developing products and services.
- M3: Placement and Entrepreneurship:** Advancing the education by strengthening the Industry-academic relationship through hands-on training to seek placement in the top most industries or to develop a start-ups.
- M4: Ethics and Social Responsibilities:** Stimulating professional behaviour and good ethical values to improve the leadership skills and social responsibilities.

2. A. 3. 100

PROGRAMME OUTCOMES (POs)

PO1: Exploration of Research:

An ability to independently carry out research/investigation and development work to solve practical problems.

PO2: Technical Skill:

An ability to write and present a substantial technical report/document.

PO3: Expertise in Academics:

Students should be able to demonstrate a degree of mastery over the area as per the specialization of the program. The mastery should be at a level higher than the requirements in the appropriate bachelor program.

PO4: Problem solving:

An ability to discriminate, analyzes, evaluate and synthesize the technologies to provide solution for multidimensional engineering problems.

PO5: Usage of Modern Tools:

Create, select, learn and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling, to complex engineering activities with an understanding of the limitations..

PO6: Ethical Practices and Social Responsibility:

Acquire professional and intellectual integrity, professional code of conduct, ethics of research and scholarship, consideration of the impact of research outcomes on professional practices and an understanding of responsibility to contribute to the community for sustainable development of society.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1: Technical Knowledge: To acquire a comprehensive knowledge in computer science engineering concepts and apply them for the investigation of real world problems.

PEO2: Research and Development: To prepare graduates who will demonstrate analytical, research, design and implementation skills offering techno-commercially feasible and socially acceptable solutions.

PEO3: Leadership: To prepare graduates who will demonstrate analytical, research, design and implementation skills offering techno-commercially feasible and socially acceptable solutions

PEO4: Professional Behavior: To deliver graduates to design and implement solutions for rapidly changing computing problems and information system environments to adapt innovation.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1: Technical Knowledge in Computer Science and Engineering: Graduates with the ability to apply basic knowledge of Computer Science in solving the critical problems.

PSO2: Multidisciplinary Competency: Ability to convert innovative ideas into research or society oriented projects through current trending technologies.

PSO3: Employability: Acquire placement in highly reputed industries or accomplish new technical business skills with the contemporary trends in the industry.

2. A. 3. 101

STRUCTURE FOR POST GRADUATE ENGINEERING PROGRAM

SI.No	Course Category	Breakdown of Credits
1	Humanities and Social Sciences (HS)	6
2	Basic Sciences(BS)	3
3	Engineering Sciences (ES)	-
4	Professional Core (PC)	25
5	Professional Electives (PE)	18
6	Open Electives (OE)	-
7	Project Work and Internship(PA)	20
8	Ability Enhancement Courses (AEC)	-
9	Mandatory courses (MC)	-
Total		72

SCHEME OF CREDIT DISTRIBUTION – SUMMARY

SI.No	Course Category	Credits per Semester				Total Credits
		I	II	III	IV	
1	Humanities and Social Sciences (HS)	4	2	-	-	6
2	Basic Sciences(BS)	3	-	-	-	3
3	Engineering Sciences (ES)	-	-	-	-	-
4	Professional Core (PC)	11	14	-	-	25
5	Professional Electives (PE)	3	6	9	-	18
6	Open Electives (OE)	-	-	-	-	-
7	Project Work and Internship(PA)			8	12	20
8	Ability Enhancement Courses (AEC)*	-	-	-	-	-
9	Mandatory Courses (MC)*	-	-	-	-	-
Total		21	22	17	12	72

* AEC, MC Credits are not included for CGPA calculation

Q. A. 3. 102

CURRICULUM

SEMESTER – I										
Sl. No.	Course Code	Course Title	Category	Periods			Credits	Max. Marks		
				L	T	P		CAM	ESM	Total
Theory										
1	P23MAT103	Mathematical Foundation of Formal Approach	BS	2	1	0	3	40	60	100
2	P23CSTD01	Advanced Data Structures and Algorithms	PC	3	0	0	3	40	60	100
3	P23CST102	Cloud and Big Data Analytics	PC	3	0	0	3	40	60	100
4	P23CSTD02	Speech and Language Processing	PC	3	0	0	3	40	60	100
5	P23HSTC01	Research Methodology and IPR	HS	2	0	0	2	40	60	100
6	P23CSE1XX	Professional Elective – I *	PE	3	0	0	3	40	60	100
Practical										
7	P23CSP101	Advanced Data Structures and Algorithms Laboratory	PC	0	0	4	2	50	50	100
8	P23HSPC01	Technical Report Writing and Seminar	HS	0	0	4	2	100	-	100
Ability Enhancement Course										
9	P23CSC1XX	Certification Course-I #	AEC	0	0	4	-	100	-	100
10	P23ACT10X	Audit Course-I**	AEC	0	0	2	-	100	-	100
							21	590	410	1000

SEMESTER – II										
Sl. No.	Course Code	Course Title	Category	Periods			Credits	Max. Marks		
				L	T	P		CAM	ESM	Total
Theory										
1	P23CST203	Advanced Software Engineering and Testing	PC	3	0	0	3	40	60	100
2	P23CST204	Adhoc and Wireless Sensor Networks	PC	3	0	0	3	40	60	100
3	P23CST205	Advanced Operating Systems	PC	3	0	0	3	40	60	100
4	P23CST206	Advanced Python Programming	PC	3	0	0	3	40	60	100
5	P23CSE2XX	Professional Elective - II	PE	3	0	0	3	40	60	100
6	P23CSE2XX	Professional Elective - III	PE	3	0	0	3	40	60	100
Practical										
7	P23CSP202	Advanced Python Programming Laboratory	PC	0	0	4	2	50	50	100
8	P23HSPC02	Seminar on ICT: A Hands - On Approach	HS	0	0	4	2	100	-	100
Ability Enhancement Course										
9	P23CSC2XX	Certification Course-II #	AEC	0	0	4	-	100	-	100
10	P23ACT20X	Audit Course-II**	AEC	0	0	2	-	100	-	100
							22	590	410	1000

2. A. 3. 103

SEMESTER – III										
Sl. No.	Course Code	Course Title	Category	Periods			Credits	Max. Marks		
				L	T	P		CAM	ESM	Total
Theory										
1	P23CSE1XX	Professional Elective – IV *	PE	3	0	0	3	40	60	100
2	P23CSE1XX	Professional Elective – V *	PE	3	0	0	3	40	60	100
3	P23CSE1XX	Professional Elective – VI *	PE	3	0	0	3	40	60	100
Project Work										
4	P23CSW301	Project Phase - I	PA	0	0	12	6	50	50	100
5	P23CSW302	Internship	PA	0	0	0	2	100	-	100
Ability Enhancement Course										
6	P23CSC301	NPTEL/SWAYAM/MOOC	AEC	0	0	0	-	100	-	100
							17	370	230	600

SEMESTER – IV										
Sl. No.	Course Code	Course Title	Category	Periods			Credits	Max. Marks		
				L	T	P		CAM	ESM	Total
Project Work										
1	P23CSW403	Project Phase - II	PA	0	0	24	12	50	50	100
							12	50	50	100

* Professional Elective Courses are to be selected from the list given in Annexure I

Ability Enhancement Courses are to be selected from the list given in Annexure II

** Audit Courses are to be selected from the list given in Annexure III

BS- Basic Sciences

PC – Professional Core

PE – Professional Elective

HS - Humanities and Social Sciences

PA - Professional Activity

CC- Common Course

AC- Audit Course

AEC - Ability Enhancement Course

CREDIT DISTRIBUTION

Semester	I	II	III	IV	Total
Credits	21	22	17	12	72

Total number of credits required to complete

M.Tech in Computer Science and Engineering : 72 credits

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ANNEXURE- I

PROFESSIONAL ELECTIVE COURSES

Sl. No.	Course Code	Course Title
Professional Elective-I		
1	P23CSE101	Programming for Data Science
2	P23CSE102	Cyber Attacks Detection and Prevention Systems
3	P23CSE103	Bio-Inspired Computing
4	P23CSE104	Block Chain and Crypto Currency
5	P23CSE105	IoT Applications Engineering
Professional Elective-II		
1	P23CSEC01	Information Visualization
2	P23CSE206	Malware Analysis
3	P23CSEC02	Soft Computing
4	P23BDEC01	Neural Networks
5	P23CSE207	Robotic Process Automation
Professional Elective-III		
1	P23CSEC03	Text, Web and Social Media Analytics
2	P23CSEC04	Data Storage Technologies and Networks
3	P23CSE208	Reinforcement Learning
4	P23CSE209	Mobile Application and Development
5	P23CSE210	Wireless Sensor Networks and IoT
Professional Elective-IV		
1	P23BDEC03	Analytics of Things
2	P23CSE311	Cloud Security and Analytics
3	P23CSE312	Pattern Recognition
4	P23CSEC05	Game Design and Augmented Reality
5	P23CSE313	IoT Security and Trust
Professional Elective-V		
1	P23CSEC06	Image and Video Analytics
2	P23CSE314	Web Application Security
3	P23CSE315	Cognitive Science
4	P23CSE316	Cloud Application Development and Management
5	P23CSE317	Intelligent Internet of Things
Professional Elective-VI		
1	P23CSE318	Big Data Technologies
2	P23CSE319	Digital Forensics
3	P23CSE320	Knowledge Engineering and Expert Systems
4	P23BDTD01	NoSQL Databases
5	P23CSE321	Industrial IoT

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ANNEXURE- II

ABILITY ENHANCEMENT COURSES

Sl. No.	Course Code	Course Title
1	P23XXCX01	Adobe Photoshop
2	P23XXCX02	Adobe Animate
3	P23XXCX03	Adobe Dreamweaver
4	P23XXCX04	Adobe After Effects
5	P23XXCX05	Adobe Illustrator
6	P23XXCX06	Adobe InDesign
7	P23XXCX07	Autodesk AutoCAD -ACU
8	P23XXCX08	Autodesk Inventor - ACU
9	P23XXCX09	Autodesk Revit - ACU
10	P23XXCX10	Autodesk Fusion 360 - ACU
11	P23XXCX11	Autodesk 3ds Max - ACU
12	P23XXCX12	Autodesk Maya - ACU
13	P23XXCX13	Cloud Security Foundations
14	P23XXCX14	Cloud Computing Architecture
15	P23XXCX15	Cloud Foundation
16	P23XXCX16	Cloud Practitioner
17	P23XXCX17	Cloud Solution Architect
18	P23XXCX18	Data Engineering
19	P23XXCX19	Machine Learning Foundation
20	P23XXCX20	Robotic Process Automation / Medical Robotics
21	P23XXCX21	Advance Programming Using C
22	P23XXCX22	Advance Programming Using C ++
23	P23XXCX23	C Programming
24	P23XXCX24	C++ Programming
25	P23XXCX25	CCNP Enterprise: Advanced Routing
26	P23XXCX26	CCNP Enterprise: Core Networking
27	P23XXCX27	Cisco Certified Network Associate - Level 2
28	P23XXCX28	Cisco Certified Network Associate- Level 1
29	P23XXCX29	Cisco Certified Network Associate- Level 3
30	P23XXCX30	Fundamentals Of Internet of Things
31	P23XXCX31	Internet Of Things / Solar and Smart Energy System with IoT
32	P23XXCX32	Java Script Programming
33	P23XXCX33	NGD Linux Essentials
34	P23XXCX34	NGD Linux I
35	P23XXCX35	NGD Linux II

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36	P23XXCX36	Advance Java Programming
37	P23XXCX37	Android Programming / Android Medical App Development
38	P23XXCX38	Angular JS
39	P23XXCX39	Catia
40	P23XXCX40	Communication Skills for Business
41	P23XXCX41	Coral Draw
42	P23XXCX42	Data Science Using R
43	P23XXCX43	Digital Marketing
44	P23XXCX44	Embedded System Using C
45	P23XXCX45	Embedded System with IOT / Arduino
46	P23XXCX46	English For IT
47	P23XXCX47	Plaxis
48	P23XXCX48	Sketch Up
49	P23XXCX49	Financial Planning, Banking and Investment Management
50	P23XXCX50	Foundation Of Stock Market Investing
51	P23XXCX51	Machine Learning / Machine Learning for Medical Diagnosis
52	P23XXCX52	IOT Using Python
53	P23XXCX53	Creo (Modelling & Simulation)
54	P23XXCX54	Soft Skills, Verbal, Aptitude
55	P23XXCX55	Software Testing
56	P23XXCX56	MX-Road
57	P23XXCX57	CLO 3D
58	P23XXCX58	Solid works
59	P23XXCX59	Staad Pro
60	P23XXCX60	Total Station
61	P23XXCX61	Hydraulic Automation
62	P23XXCX62	Industrial Automation
63	P23XXCX63	Pneumatics Automation
64	P23XXCX64	Agile Methodologies
65	P23XXCX65	Block Chain
66	P23XXCX66	Devops
67	P23XXCX67	Artificial Intelligence
68	P23XXCX68	Cloud Computing
69	P23XXCX69	Computational Thinking
70	P23XXCX70	Cyber Security
71	P23XXCX71	Data Analytics
72	P23XXCX72	Databases
73	P23XXCX73	Java Programming

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74	P23XXCX74	Networking
75	P23XXCX75	Python Programming
76	P23XXCX76	Web Application Development (HTML, CSS, JS)
77	P23XXCX77	Network Security
78	P23XXCX78	MATLAB
79	P23XXCX79	Azure Fundamentals
80	P23XXCX80	Azure AI (AI-900)
81	P23XXCX81	Azure Data (DP -900)
82	P23XXCX82	Microsoft 365 Fundamentals (SS-900)
83	P23XXCX83	Microsoft Security, Compliance and Identity (SC-900)
84	P23XXCX84	Microsoft Power Platform (PI-900)
85	P23XXCX85	Microsoft Dynamics Fundamentals 365 – CRM
86	P23XXCX86	Microsoft Excel
87	P23XXCX87	Microsoft Excel Expert
88	P23XXCX88	Securities Market Foundation
89	P23XXCX89	Derivatives Equity
90	P23XXCX90	Research Analyst
91	P23XXCX91	Portfolio Management Services
92	P23XXCX92	Cyber Security
93	P23XXCX93	Cloud Security
94	P23XXCX94	PMI – Ready
95	P23XXCX95	Tally – GST & TDS
96	P23XXCX96	Advance Tally
97	P23XXCX97	Associate Artist
98	P23XXCX98	Certified Unity Programming
99	P23XXCX99	VR Development

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ANNEXURE-III

AUDIT COURSES

(Common to all M.Tech Programme)

Sl. No.	Course Code	Course Title
1	P23ACTX01	English for Research Paper Writing
2	P23ACTX02	Disaster Management
3	P23ACTX03	Sanskrit for Technical Knowledge
4	P23ACTX04	Value Education
5	P23ACTX05	Constitution of India
6	P23ACTX06	Pedagogy Studies
7	P23ACTX07	Stress Management by Yoga
8	P23ACTX08	Personality Development Through Life Enlightenment Skills
9	P23ACTX09	Unnat Bharat Abhiyan

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SRI MANAKULA VINAYAGAR **ENGINEERING COLLEGE**

(An Autonomous Institution)

Puducherry

(As per UGC - 2018 Regulations and Affiliated to Pondicherry University)

PUDUCHERRY – 605107

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

M.TECH.

COMPUTER SCIENCE ENGINEERING (BIG DATA ANALYTICS)

(REGULATIONS - 2023)

CURRICULUM AND SYLLABI



d. n.
Dr. K. P. KUMAR
Professor & Head
Dept. of Computer Science and Engg.
Sri Manakula Vinayagar Engg. College
(An Autonomous Institution)

M.Tech. Computer Science Engineering (Big Data Analytics)

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COLLEGE VISION AND MISSION

VISION

To be globally recognized for excellence in quality education, innovation and research for the transformation of lives to serve the society.

MISSION

- M1: Quality Education** : To provide comprehensive academic system that amalgamates the cutting edge technologies with best practices.
- M2: Research and Innovation** : To foster value-based research and innovation in collaboration with industries and institutions globally for creating intellectuals with new avenues.
- M3: Employability and Entrepreneurship** : To inculcate the employability and entrepreneurial skills through value and skill based training.
- M4: Ethical Values** : To instill deep sense of human values by blending societal righteousness with academic professionalism for the growth of society.

DEPARTMENT VISION AND MISSION

VISION

To create a productive learning and research environment for graduates to become highly dynamic, competent, ethically responsible, professionally knowledgeable in the field of computer science and engineering to meet the industrial needs on par with global standards.

MISSION

- M1: Quality Education:** Empowering the students with the necessary technical skills through quality education to grow professionally.
- M2: Innovative Research:** Advocating the innovative research ideas by incorporating with industries for developing products and services.
- M3: Placement and Entrepreneurship:** Advancing the education by strengthening the Industry-academic relationship through hands-on training to seek placement in the top most industries or to develop a start-ups.
- M4: Ethics and Social Responsibilities:** Stimulating professional behaviour and good ethical values to improve the leadership skills and social responsibilities.

STRUCTURE FOR POST GRADUATE ENGINEERING PROGRAM

SI.No	Course Category	Breakdown of Credits
1	Humanities and Social Sciences (HS)	6
2	Basic Sciences(BS)	3
3	Engineering Sciences (ES)	-
4	Professional Core (PC)	25
5	Professional Electives (PE)	18
6	Open Electives (OE)	-
7	Project Work and Internship(PA)	20
8	Ability Enhancement Courses (AEC)	-
9	Mandatory courses (MC)	-
Total		72

SCHEME OF CREDIT DISTRIBUTION – SUMMARY

SI.No	Course Category	Credits per Semester				Total Credits
		I	II	III	IV	
1	Humanities and Social Sciences (HS)	4	2	-	-	6
2	Basic Sciences(BS)	3	-	-	-	3
3	Engineering Sciences (ES)	-	-	-	-	-
4	Professional Core (PC)	11	14	-	-	25
5	Professional Electives (PE)	3	6	9	-	18
6	Open Electives (OE)	-	-	-	-	-
7	Project Work and Internship(PA)			8	12	20
8	Ability Enhancement Courses (AEC)*	-	-	-	-	-
9	Mandatory Courses (MC)*	-	-	-	-	-
Total		21	22	17	12	72

* AEC, MC Credits are not included for CGPA calculation

CURRICULUM

SEMESTER – I										
Sl. No.	Course Code	Course Title	Category	Periods			Credits	Max. Marks		
				L	T	P		CAM	ESM	Total
Theory										
1	P23MAT104	Mathematical Foundations for Data Analytics	BS	3	0	0	3	40	60	100
2	P23BDT101	Big Data Acquisition	PC	3	0	0	3	40	60	100
3	P23BDT102	Exploratory Data Analysis	PC	3	0	0	3	40	60	100
4	P23BDT103	Big Data Frameworks	PC	3	0	0	3	40	60	100
5	P23HSTC01	Research Methodology and IPR	HS	2	0	0	2	40	60	100
6	P23BDE1XX	Professional Elective - I *	PE	3	0	0	3	40	60	100
Practical										
7	P23BDP101	Big Data Computing Laboratory	PC	0	0	4	2	50	50	100
8	P23HSPC01	Technical Report Writing and Seminar	HS	0	0	4	2	100	-	100
Ability Enhancement Course										
9	P23CSC1XX	Certification Course-I #	AEC	0	0	4	-	100	-	100
10	P23ACT10X	Audit Course-I**	AEC	0	0	2	-	100	-	100
							21	590	410	1000

SEMESTER – II										
Sl. No.	Course Code	Course Title	Category	Periods			Credits	Max. Marks		
				L	T	P		CAM	ESM	Total
Theory										
1	P23BDT204	Mining Massive Data	PC	3	0	0	3	40	60	100
2	P23BDT205	Streaming Data Analytics	PC	3	0	0	3	40	60	100
3	P23BDT206	Big Data with SQL	PC	3	0	0	3	40	60	100
4	P23BDTD01	No SQL Databases	PC	3	0	0	3	40	60	100
5	P23BDE2XX	Professional Elective - II*	PE	3	0	0	3	40	60	100
6	P23BDE2XX	Professional Elective - III*	PE	3	0	0	3	40	60	100
Practical										
7	P23BDP202	Big Data with SQL Laboratory	PC	0	0	4	2	50	50	100
8	P23HSPC02	Seminar on ICT a hands on approach	HS	0	0	4	2	100	-	100
Ability Enhancement Course										
9	P23BDC2XX	Certification Course-II #	AEC	0	0	4	-	100	-	100
10	P23ACT20X	Audit Course-II**	AEC	0	0	2	-	100	-	100
							22	590	410	1000

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SEMESTER – III										
Sl. No.	Course Code	Course Title	Category	Periods			Credits	Max. Marks		
				L	T	P		CAM	ESM	Total
Theory										
1	P23BDE3XX	Professional Elective – IV *	PE	3	0	0	3	40	60	100
2	P23BDE3XX	Professional Elective – V *	PE	3	0	0	3	40	60	100
3	P23BDE3XX	Professional Elective – VI *	PE	3	0	0	3	40	60	100
Project Work										
4	P23BDW301	Project Phase – I	PA	0	0	12	6	50	50	100
5	P23BDW302	Internship	PA	0	0	0	2	100	-	100
Ability Enhancement Course										
6	P23BDC301	NPTEL/SWAYAM/MOOC	AEC	0	0	0	-	100	-	100
							17	370	230	600

SEMESTER – IV										
Sl. No.	Course Code	Course Title	Category	Periods			Credits	Max. Marks		
				L	T	P		CAM	ESM	Total
Project Work										
1	P23BDW403	Project Phase – II	PA	0	0	24	12	50	50	100
							12	50	50	100

* Professional Elective Courses are to be selected from the list given in Annexure I

Ability Enhancement Courses are to be selected from the list given in Annexure II

** Audit Courses are to be selected from the list given in Annexure III

BS- Basic Sciences

PC – Professional Core

PE – Professional Elective

HS - Humanities and Social Sciences

PA - Professional Activity

CC- Common Course

AC- Audit Course

AEC - Ability Enhancement Course

CREDIT DISTRIBUTION

Semester	I	II	III	IV	Total
Credits	21	22	17	12	72

Total number of credits required to complete

M.Tech in Computer Science and Engineering : 72 credits

M.Tech. Computer Science Engineering (Big Data Analytics)

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ANNEXURE- I
PROFESSIONAL ELECTIVE COURSES

Sl. No.	Course Code	Course Title
Professional Elective-I		
1	P23BDE101	Data Driven Decision Making
2	P23BDEC01	Neural Networks
3	P23BDE102	Multicore Architectures
4	P23CSTD01	Advanced Data Structures and Algorithms
5	P23BDE103	Machine Learning
Professional Elective-II		
1	P23CSEC01	Information Visualization
2	P23CSEC03	Text, Web and Social Media Analytics
3	P23CSTD02	Speech and Language Processing
4	P23BDEC02	Web Analytics and Development
5	P23BDE204	Expert System and Decision Making
Professional Elective-III		
1	P23BDE205	Information Retrieval
2	P23BDE206	Supply Chain Analytics
3	P23BDE207	Cryptography and Information Security
4	P23BDE208	Semantic Web and Knowledge Management
5	P23BDE209	Artificial Intelligence
Professional Elective-IV		
1	P23BDE310	Optimization Techniques for Analytics
2	P23CSEC04	Data Storage Technologies and Networks
3	P23BDE311	Models of Computation
4	P23CSEC02	Soft Computing
5	P23BDE312	Deep Learning
Professional Elective-V		
1	P23BDE313	Blockchain Technology
2	P23BDE314	Speech Recognition
3	P23ADEC01	Agile and Software Project Management
4	P23CSEC05	Game Design and Augmented Reality
5	P23CSEC06	Image and Video Analytics
Professional Elective-VI		
1	P23BDE315	Graphs – Algorithms and Mining
2	P23BDE316	Real-Time Systems
3	P23BDE317	Social Network Analysis
4	P23BDE318	Analytics of Things
5	P23BDE319	User Interface/ User Experience Design

M.Tech. Computer Science Engineering (Big Data Analytics)

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ANNEXURE- II
ABILITY ENHANCEMENT COURSES

Sl. No.	Course Code	Course Title
1	P23XXCX01	Adobe Photoshop
2	P23XXCX02	Adobe Animate
3	P23XXCX03	Adobe Dreamweaver
4	P23XXCX04	Adobe After Effects
5	P23XXCX05	Adobe Illustrator
6	P23XXCX06	Adobe InDesign
7	P23XXCX07	Autodesk AutoCAD -ACU
8	P23XXCX08	Autodesk Inventor – ACU
9	P23XXCX09	Autodesk Revit – ACU
10	P23XXCX10	Autodesk Fusion 360 – ACU
11	P23XXCX11	Autodesk 3ds Max – ACU
12	P23XXCX12	Autodesk Maya – ACU
13	P23XXCX13	Cloud Security Foundations
14	P23XXCX14	Cloud Computing Architecture
15	P23XXCX15	Cloud Foundation
16	P23XXCX16	Cloud Practitioner
17	P23XXCX17	Cloud Solution Architect
18	P23XXCX18	Data Engineering
19	P23XXCX19	Machine Learning Foundation
20	P23XXCX20	Robotic Process Automation / Medical Robotics
21	P23XXCX21	Advance Programming Using C
22	P23XXCX22	Advance Programming Using C ++
23	P23XXCX23	C Programming
24	P23XXCX24	C++ Programming
25	P23XXCX25	CCNP Enterprise: Advanced Routing
26	P23XXCX26	CCNP Enterprise: Core Networking
27	P23XXCX27	Cisco Certified Network Associate - Level 2
28	P23XXCX28	Cisco Certified Network Associate- Level 1
29	P23XXCX29	Cisco Certified Network Associate- Level 3
30	P23XXCX30	Fundamentals Of Internet of Things
31	P23XXCX31	Internet Of Things / Solar and Smart Energy System with IoT
32	P23XXCX32	Java Script Programming
33	P23XXCX33	NGD Linux Essentials

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34	P23XXCX34	NGD Linux I
35	P23XXCX35	NGD Linux II
36	P23XXCX36	Advance Java Programming
37	P23XXCX37	Android Programming / Android Medical App Development
38	P23XXCX38	Angular JS
39	P23XXCX39	Catia
40	P23XXCX40	Communication Skills for Business
41	P23XXCX41	Coral Draw
42	P23XXCX42	Data Science Using R
43	P23XXCX43	Digital Marketing
44	P23XXCX44	Embedded System Using C
45	P23XXCX45	Embedded System with IOT / Arduino
46	P23XXCX46	English For IT
47	P23XXCX47	Plaxis
48	P23XXCX48	Sketch Up
49	P23XXCX49	Financial Planning, Banking and Investment Management
50	P23XXCX50	Foundation Of Stock Market Investing
51	P23XXCX51	Machine Learning / Machine Learning for Medical Diagnosis
52	P23XXCX52	IOT Using Python
53	P23XXCX53	Creo (Modelling & Simulation)
54	P23XXCX54	Soft Skills, Verbal, Aptitude
55	P23XXCX55	Software Testing
56	P23XXCX56	MX-Road
57	P23XXCX57	CLO 3D
58	P23XXCX58	Solid works
59	P23XXCX59	Staad Pro
60	P23XXCX60	Total Station
61	P23XXCX61	Hydraulic Automation
62	P23XXCX62	Industrial Automation
63	P23XXCX63	Pneumatics Automation
64	P23XXCX64	Agile Methodologies
65	P23XXCX65	Block Chain
66	P23XXCX66	Devops
67	P23XXCX67	Artificial Intelligence
68	P23XXCX68	Cloud Computing
69	P23XXCX69	Computational Thinking

M.Tech. Computer Science Engineering (Big Data Analytics)

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Academic Curriculum and Syllabi R-2023

70	P23XXCX70	Cyber Security
71	P23XXCX71	Data Analytics
72	P23XXCX72	Databases
73	P23XXCX73	Java Programming
74	P23XXCX74	Networking
75	P23XXCX75	Python Programming
76	P23XXCX76	Web Application Development (HTML, CSS, JS)
77	P23XXCX77	Network Security
78	P23XXCX78	MATLAB
79	P23XXCX79	Azure Fundamentals
80	P23XXCX80	Azure AI (AI-900)
81	P23XXCX81	Azure Data (DP -900)
82	P23XXCX82	Microsoft 365 Fundamentals (SS-900)
83	P23XXCX83	Microsoft Security, Compliance and Identity (SC-900)
84	P23XXCX84	Microsoft Power Platform (PI-900)
85	P23XXCX85	Microsoft Dynamics Fundamentals 365 – CRM
86	P23XXCX86	Microsoft Excel
87	P23XXCX87	Microsoft Excel Expert
88	P23XXCX88	Securities Market Foundation
89	P23XXCX89	Derivatives Equity
90	P23XXCX90	Research Analyst
91	P23XXCX91	Portfolio Management Services
92	P23XXCX92	Cyber Security
93	P23XXCX93	Cloud Security
94	P23XXCX94	PMI – Ready
95	P23XXCX95	Tally – GST & TDS
96	P23XXCX96	Advance Tally
97	P23XXCX97	Associate Artist
98	P23XXCX98	Certified Unity Programming
99	P23XXCX99	VR Development

M.Tech. Computer Science Engineering (Big Data Analytics)

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ANNEXURE-III

AUDIT COURSES
(Common to all M.Tech Programme)

Sl. No.	Course Code	Course Title
1	P23ACTX01	English for Research Paper Writing
2	P23ACTX02	Disaster Management
3	P23ACTX03	Sanskrit for Technical Knowledge
4	P23ACTX04	Value Education
5	P23ACTX05	Constitution of India
6	P23ACTX06	Pedagogy Studies
7	P23ACTX07	Stress Management by Yoga
8	P23ACTX08	Personality Development Through Life Enlightenment Skills
9	P23ACTX09	Unnat Bharat Abhiyan

ANNEXURE-VII

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Department of Computer Science and Engineering

Ph.D. Scholar Progress

S.NO	Name of the Candidate	Supervisor	Mode	Number of DC Conduced	Number of Course work completed
1.	Mrs.P.Bhavani	Dr.N.Danapaquame	Part-Time(Internal)	1	4
2.	Mr.Arokiaraj St.Hubert	Dr.J.Madhusudanan	Part-Time(Internal)	1	4
3.	Mr.S.Diwahar	Dr.J.Madhusudanan	Part-Time(External)	2	4
4.	Mr.G.Aurobind	Dr.R.Ramachandiran	Part-Time(External)	2	4
5.	Ms.T.Prateshshma	Dr.R.Raju	Regular	Synopsis Completed	4

[Handwritten signature]
11/7/11/20

HOD/CSE

(Dr.K.Premkumar)

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