



Established: 1999

Annasaheb Dange College of Engineering and Technology

Ashta - 416301, Dist. : Sangli, Maharashtra

(An Empowered Autonomous Institute)



Department : Computer Science and Engineering
Programme : B.Tech. – CSE
Curriculum Revision : Revision 3, with effect from the AY 2025-26 to the students of UG Programme.

Course Category	Acronym	I	II	III	IV	V	VI	VII	VIII	Total	% of Category
Basic Science Course	BS	8	6	3	0	0	0	0	0	17	10
Engineering Science Course	ES	11	8	0	0	0	0	0	0	19	11
Programme Core Course	PC	0	3	15	7	11	6	8	0	50	28
Programme Elective Course	PE	0	0	0	3	4	4	8	3	22	13
Open Elective (other than particular program)	OE	0	0	0	2	2	2	0	0	6	3
Multidisciplinary Minor	MDM	0	0	0	4	3	4	3	0	14	8
Vocational and Skill Enhancement Course	VSEC	0	2	0	2	0	2	0	0	6	3
Humanities Social Science and Management	HSSM	2	0	5	3	3	0	0	0	15	9
Incian Knowledge System	IKS	0	2	0	0	0	0	0	0		
Value Education Course	VEC	0	0	0	0	0	0	0	0		
Research Methodology	RM	0	0	0	1	0	0	0	0	19	11
Experiential Learning (Internship, Project)	EL	0	0	0	1	1	0	4	12		
Community Engagement Activity (CEA)/Field Project	CEA	0	0	0	0	0	2	0	0	02	1
Co-curricular & Extracurricular Activities	CCA	1	1	0	0	0	0	0	0	02	1
Self Study	SS	0	0	0	0	0	2	2	0	04	2
Total		22	22	23	23	24	22	25	15	176	100

Member Secretary-BoS

Chairman -BoS

Member Secretary-AC



Chairman-AC



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F.Y. B.Tech. – Computer Science and Engineering

[Level 4.5, UG Certificate] Semester - I

Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
01	BS	T1	3CSBS101	Applied Mathematics - I	3	1	0	2	4	40	20	40	-	-
02	BS	LIT2	3CSBS102	Applied Physics and Chemistry	3	0	2	1	4	40	20	40	50	-
03	ES	T1	3CSES103	Engineering Graphics	2	1	0	1	3	40	20	40	-	-
04	ES	T1	3CSES104	Data Communication	3	0	0	1	3	40	20	40	-	-
05	ES	L1	3CSES105	Computer Programming	2	0	4	2	4	-	-	-	50	50
06	HS	L2	3CSHS106	Professional Communication Skills	0	0	4	1	2	-	-	-	50	-
07	ES	L2	3CSES107	Design Thinking	0	0	2	1	1	-	-	-	50	-
08	CC	L2	3BSCC***	Liberal Learning Course - I	0	0	2	-	1	-	-	-	50	-
Total					13	2	14	9	22					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Minimum Passing Criteria			TA (Theory) : $\geq 8 / 20$		MSE + ESE (Theory) : $\geq 32 / 80$			TA (Theory) / CIE (Lab) : $\geq 20 / 50$			ESE (Lab) : $\geq 20/50$			

CC Bouquet:

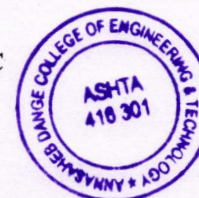
3BSCC121 - Introduction to Yoga and Mindfulness	3BSCC123 - Six-Sigma Happiness and Mind Mechanics	3BSCC125 - Community Engagement through NSS
3BSCC122 - Physical Fitness and Lifestyle Management	3BSCC124 - Creativity through Visual Arts	3BSCC126 - Cultural Exploration & Heritage
3BSCC127- Leadership and Team management	3BSCC128- Self Management and Purposeful Living,	3BSCC129- Business Communication
3BSCC130- Mathematical Reasoning	3BSCC131- Introduction to Dance and Movement	3BSCC132- Introduction to Music and Singing
3BSCC133-Happiness and Well-Being	3BSCC134- Financial Literacy & Investment Awareness	3BSCC135-Cyber Awareness and Ethics

Member Secretary-BoS

Chairman -BoS

Member Secretary-AC

Chairman-AC



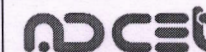


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F.Y. B.Tech. – Computer Science and Engineering

[Level 4.5, UG Certificate] Semester - II

Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
01	BS	T1	3CSBS109	Applied Mathematics - II	3	1	0	2	4	40	20	40	-	-
02	BS	L2	3CSBS110	Biology for Engineers	1	0	2	1	2	-	-	-	50	-
03	ES	LIT2	3CSES111	Basic Electrical and Electronics Engineering	2	0	2	1	3	40	20	40	50	-
04	ES	T1	3CSES112	Introduction to Emerging Technologies	2	0	0	1	2	40	20	40	-	-
05	ES	L1	3CSES113	Python Programming	2	0	2	2	3	-	-	-	50	50
06	IKS	T2	3CSHS114	Indian Knowledge Systems	2	0	0	1	2	-	50	-	-	-
07	PC	LIT2	3CSPC115	Computer Networks	2	0	2	1	3	40	20	40	50	-
08	VS	L2	3CSVS116	IDEA Lab Workshop	1	0	2	1	2	-	-	-	50	-
09	CC	L2	3BSCC***	Liberal Learning Course- II	0	0	2	-	1	-	-	-	50	-
Total					15	1	12	10	22					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Minimum Passing Criteria			TA (Theory) : $\geq 8 / 20$		MSE + ESE (Theory) : $\geq 32 / 80$			TA (Theory) / CIE (Lab) : $\geq 20 / 50$			ESE (Lab) : $\geq 20/50$			

CC Bouquet:

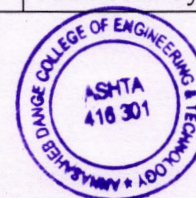
3BSCC121 - Introduction to Yoga and Mindfulness	3BSCC123 - Six-Sigma Happiness and Mind Mechanics	3BSCC125 - Community Engagement through NSS
3BSCC122 - Physical Fitness and Lifestyle Management	3BSCC124 - Creativity through Visual Arts	3BSCC126 - Cultural Exploration & Heritage
3BSCC127- Leadership and Team management	3BSCC128- Self Management and Purposeful Living,	3BSCC129- Business Communication
3BSCC130- Mathematical Reasoning	3BSCC131- Introduction to Dance and Movement	3BSCC132- Introduction to Music and Singing
3BSCC133-Happiness and Well-Being	3BSCC134- Financial Literacy & Investment Awareness	3BSCC135-Cyber Awareness and Ethics

Member Secretary-BoS

Chairman -BoS

Member Secretary-AC

Chairman-AC



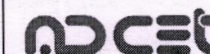


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S.Y. B.Tech. – Computer Science and Engineering

[Level 5, UG Diploma] Semester - III

Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
01	BS	T1	3CSBS201	Discrete Mathematics	2	1	0	3	3	40	20	40	-	-
02	PC	LIT1	3CSPC202	Data Structures and Algorithms	3	0	2	3	4	40	20	40	50	50
03	PC	LIT2	3CSPC203	Computer Organization and Architecture	2	0	2	2	3	40	20	40	50	-
04	PC	T1	3CSPC204	Software Engineering	2	0	0	2	2	40	20	40	-	-
05	PC	LIT2	3CSPC205	Operating Systems	3	0	2	3	4	40	20	40	50	-
06	PC	L1	3CSPC206	C++ Programming	1	0	2	1	2	-	-	-	50	50
07	HS	T2	3CSHSXXXX	Foreign Language	2	0	0	2	2	-	50	-	-	-
08	HS	T2	3CSHS208	Psychology	1	0	0	1	1	-	50	-	-	-
09	HS	T2	3CSHS209	Environment Studies	2	0	0	2	2	-	50	-	-	-
10	MA	T2	3CSMA210	Aptitude and Reasoning - I	2	0	0	-	0	-	50	-	-	-
Total					20	1	8	19	23					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Minimum Passing Criteria			TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80			TA (Theory) / CIA (Lab) : ≥ 20 / 50			ESE (Lab) : ≥ 20/50			

Foreign Language Bouquet:

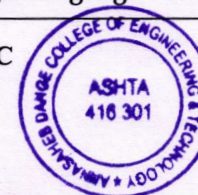
3CSHS207A	Foreign Language- Japanese	3CSHS207B	Foreign Language- German
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Member Secretary-BoS

Chairman -BoS

Member Secretary-AC

Chairman-AC



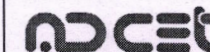


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S.Y. B.Tech. – Computer Science and Engineering

[Level 5, UG Diploma] Semester - IV

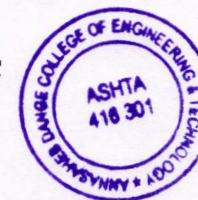
Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
01	PE	T1	3CSPE2XX	Professional Elective – I	3	0	0	3	3	40	20	40	-	-
02	PC	LIT1	3CSPC216	Database Engineering	3	0	2	3	4	40	20	40	50	50
03	PC	T1	3CSPC217	Theory of Computation	2	1	0	3	3	40	20	40	-	-
04	MM	LIT2	3CSXX2XX	Multidisciplinary Minor – I	3	0	2	3	4	40	20	40	50	-
05	OE	T2	3IL0EXXX	Open Elective – I	2	0	0	2	2	-	-	100	-	-
06	VSEC	L1	3CSVS223	Web Programming – I	1	0	2	1	2	-	-	-	50	50
07	HS	T2	3CSHS224	Indian Constitution	1	0	0	1	1	-	50	-	-	-
08	HS	T2	3CSHS225	Universal Human Values	2	0	0	2	2	-	50	-	-	-
09	RM	L2	3CSRM226	Research Methodology	0	0	2	-	1	-	-	-	50	-
10	EL	L2	3CSEL227	Innovation and Product Development	0	0	2	-	1	-	-	-	50	-
11	MA	T2	3CSMA228	Aptitude and Reasoning - II	2	0	0	-	0	-	50	-	-	-
Total					19	1	10	18	23					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Summer Internship (in Industry, R&D organization, or Academic Institute) shall be undertaken after the IV Semester during the summer vacation. The evaluation of the internship will be conducted during the V Semester														
Minimum Passing Criteria		TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80		TA (Theory)/CIA (Lab) : ≥ 20 / 50			ESE (Lab): ≥ 20/50		ESE (Theory): ≥ 40 / 100			

Member Secretary-BoS

Chairman -BoS

Member Secretary-AC

Chairman-AC





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Exit after S.Y. B.Tech. – Computer Science and Engineering

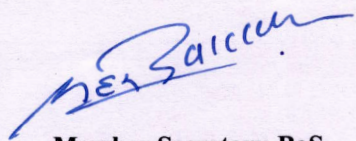
(As per AICTE Guidelines)

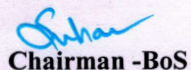
Eligibility Criteria

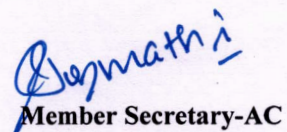
- All conditions applicable to the Exit Option after First Year shall also apply. In addition, the following criteria must be met:
- Students will have the option to exit the Computer Science and Engineering Program after successfully completing the second year.
- To qualify this exit option students must complete Internship of minimum 8 weeks in Computer Science and Engineering related field, aimed at enhancing practical knowledge and industry exposure. Students must submit **internship** report in accordance with the schedule and guidelines provided.

Outcome:

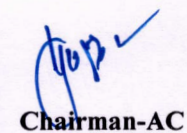
- Upon exit, they will be awarded an **Undergraduate Diploma in Computer Science and Engineering**.


Member Secretary-BoS


Chairman -BoS


Member Secretary-AC




Chairman-AC



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(An Empowered Autonomous Institute)



T.Y. B.Tech. – Computer Science and Engineering

[Level 5.5, B.Voc] Semester - V

Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
01	PC	LIT2	3CSPC301	Design and Analysis of Algorithms	3	0	2	3	4	40	20	40	50	-
02	PC	LIT1	3CSPC302	Machine Learning	3	0	2	3	4	40	20	40	50	50
03	PE	LIT2	3CSPE3XX	Professional Elective - II	3	0	2	3	4	40	20	40	50	-
04	MM	T1	3CSXX3XX	Multidisciplinary Minor – II	3	0	0	3	3	40	20	40	-	-
05	PC	L1	3CSPC313	Java Programming	2	0	2	2	3	-	-	-	50	50
06	OE	T2	3ILOEXXX	Open Elective – II	2	0	0	2	2	-	-	100	-	-
07	HS	T2	3CSHS314	Project Management and Finance	2	0	0	2	2	-	50	-	-	-
08	HS	L2	3CSHS315	Entrepreneurship	0	0	2	0	1	-	-	-	50	-
09	EL	L2	3CSEL316	Summer Internship	0	0	0	0	1	-	-	-	50	-
10	MA	T2	3CSMA317	Aptitude and Reasoning - .III	2	0	0	-	0	-	50	-	-	-
Total					20	0	10	18	24					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Minimum Passing Criteria		TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80		TA (Theory) / CIA (Lab) : ≥ 20 / 50		ESE (Lab) : ≥ 20/50		ESE (Theory): ≥ 40 / 100				

Member Secretary-BoS

Chairman -BoS

Member Secretary-AC



Chairman-AC



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T.Y. B.Tech. – Computer Science and Engineering

[Level 5.5, B.Voc] Semester - VI

Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
01	PC	T1	3CSPC318	System Programming and Compilers	3	0	0	3	3	40	20	40	-	-
02	PC	LIT2	3CSPC319	High Performance Computing	2	0	2	2	3	40	20	40	50	-
03	PE	LIT1	3CSPE3XX	Program Elective - III	3	0	2	3	4	40	20	40	50	50
04	MM	LIT2	3CSXX3XX	Multidisciplinary Minor – III	3	0	2	3	4	40	20	40	50	-
05	VSEC	L1	3CSVS330	Web Programming - II	1	0	2	1	2	-	-	-	50	50
06	OE	T2	3ILOEXXX	Open Elective – III	2	0	0	2	2	-	-	100	-	-
07	CEA	L2	3CSCE331	Mini Project	0	0	4	0	2	-	-	-	50	-
08	SS	T2	3CSSS332	Self-Study Course - I	0	0	0	0	2	-	-	100	-	-
09	MA	T2	3CSMA333	Aptitude and Reasoning - IV	2	0	0	-	0	-	50	-	-	-
Total					16	0	12	14	22					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Minimum Passing Criteria		TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80		TA (Theory) / CIA (Lab) : ≥ 20 / 50		ESE (Lab) : ≥ 20/50		ESE (Theory): ≥ 40 / 100				

Member Secretary-BoS

Chairman -BoS

Member Secretary-AC



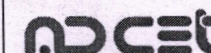
Chairman-AC



Established: 1999

Annasaheb Dange College of Engineering and Technology

Ashta - 416301, Dist. : Sangli, Maharashtra

(An Empowered Autonomous Institute)**Exit after T.Y. B.Tech. – Computer Science and Engineering**

(As per AICTE Guidelines)

Eligibility Criteria:

- Completion of all core courses in the first three years of the engineering curriculum.
- Demonstration of both theoretical understanding and practical application through:
 - Industry-Relevant Practical Training: Including internships or apprenticeships.
 - Advanced Skill-Based Course: Aligning with current industry needs.
 - Internship/Apprenticeship: At least 8 weeks in a relevant engineering field.
 - Community Engagement Project: Real-world problem-solving with societal benefit.
 - Capstone Project (Optional): Integration and application of learning outcomes across three years.

Outcome:

Students will be awarded a **B. Voc. Degree in Computer Science and Engineering**, signifying a strong foundation in engineering concepts, technical proficiency, and vocational readiness.

Member Secretary-BoS

Chairman -BoS

Member Secretary-AC



Chairman-AC



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Final. Year. B.Tech. – Computer Science and Engineering

[Level 6, B.Tech] Semester - VII

Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
01	PC	LIT2	3CSPC401	Advanced Wireless and Ad hoc networks	3	0	2	3	4	40	20	40	50	-
02	PC	LIT2	3CSPC402	Information and Network Security	3	0	2	3	4	40	20	40	50	-
03	PE	LIT1	3CSPE4XX	Program Elective - IV	3	0	2	3	4	40	20	40	50	50
04	PE	LIT2	3CSPE4XX	Program Elective - V	3	0	2	3	4	40	20	40	50	-
05	MM	T1	3CSXX4XX	Multidisciplinary Minor – IV	3	0	0	3	3	40	20	40	-	-
06	SS	T2	3CSSS418	Self-Study Course - II	0	0	0	-	2	-	-	100	-	-
07	EL	L1	3CSEL419	Project	0	0	8	-	4	-	-	-	50	50
Total					15	0	16	15	25					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment ESE-End-Semester Examination														
Minimum Passing Criteria		TA (Theory) : ≥ 8 / 20		MSE + ESE (Theory) : ≥ 32 / 80		TA (Theory) / CIA (Lab) : ≥ 20 / 50		ESE (Lab) : ≥ 20/50		ESE (Theory): ≥ 40 / 100				

Member Secretary-BoS

Chairman -BoS

Member Secretary-AC

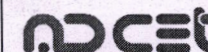
Chairman-AC





Established: 1999

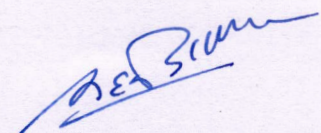
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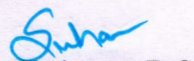


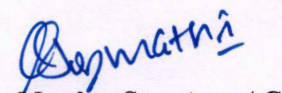
Final. B.Tech. – Computer Science and Engineering

[Level 6, B.Tech] Semester - VIII

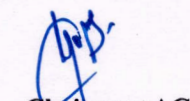
Sr. No.	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
										Theory			Laboratory	
										MSE	TA	ESE	CIA	ESE
01	PE	T1	3CSPE4XX	Program Elective – VI	3	0	0	3	3	40	20	40	-	-
02	EL	L2	3CSEL425	Internship	0	0	0	-	12	-	-	-	50	-
Total					3	0	0	3	15					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination														
Minimum Passing Criteria			TA (Theory) : $\geq 8 / 20$		MSE + ESE (Theory) : $\geq 32 / 80$			TA (Theory) / CIA (Lab) : $\geq 20 / 50$			ESE (Lab) : $\geq 20/50$			


 Member Secretary-BoS


 Chairman -BoS


 Member Secretary-AC



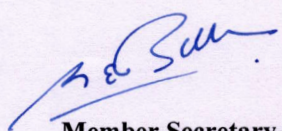

 Chairman-AC

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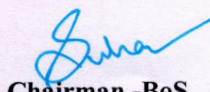
Professional Electives/ Honor's Track (22 Credits)

Track Name	Program Elective - I (3-0-0)	Program Elective - II (3-0-2)	Program Elective - III (3-0-2)	Program Elective - IV (3-0-2)	Program Elective - V (3-0-2)	Program Elective - VI (3-0-0)
Class	S. Y. B. Tech	T. Y. B. Tech	T. Y. B. Tech	Final Year. B. Tech	Final Year. B. Tech	Final Year. B. Tech
Semester	IV	V	VI	VII	VII	VIII
Artificial Intelligence	3CSPE211 Responsible AI	3CSPE303 Optimization Technique	3CSPE320 Computer Vision and Natural Language Processing	3CSPE403 Deep Learning	3CSPE408 Generative AI and Agentic AI	3CSPE420 MLOps for AI
Internet of Things	3CSPE212 Introduction to IoT	3CSPE304 RTOS and Embedded Programming	3CSPE321 IoT Communication, Networking and Edge Computing	3CSPE404 Cloud Computing for IoT	3CSPE409 IoT Security, Analytics and AI Integration	3CSPE421 Industry 4.0 and IoT
Cyber Security	3CSPE213 Fundamentals of Cyber Security and Cyber Laws	3CSPE305 Ethical Hacking and Security Testing	3CSPE322 Security Assessment and Risk Analysis	3CSPE405 Digital Forensics and Incidence Response	3CSPE410 Database Security and Access Control	3CSPE422 Privacy Preserving Techniques
Data Science	3CSPE214 Probability and Statistics for Data Science	3CSPE306 Data Mining and Warehousing	3CSPE323 Data Visualization	3CSPE406 Big Data Analytics	3CSPE411 Natural Language Processing	3CSPE423 MLOps for Data Science
Cloud and DevOps	3CSPE215 Distributed Systems	3CSPE307 Cloud Computing	3CSPE324 Introduction to DevOps	3CSPE407 Docker and Kubernetes	3CSPE412 Configuration Management & Infrastructure Provisioning	3CSPE424 Cloud Security and Privacy

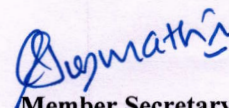
- Students opting for the Honors Degree shall complete all Honors courses from a single track, which shall be different from the track chosen for their Professional Elective courses.



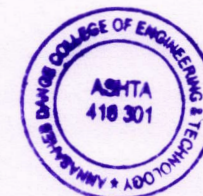
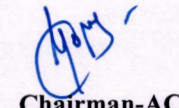
Member Secretary-BoS



Chairman -BoS



Member Secretary-AC

Chairman-AC



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Multidisciplinary Minor Track (14 Credits)

1] Minor Stream: Web Development (WD)

Sr. No.	SEM	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
											Theory			Laboratory	
											MSE	TA	ESE	CIA	ESE
01	IV	MM	LIT2	3CSWD218	Fundamentals of Web Development	3	-	2	3	4	40	20	40	50	--
02	V	MM	T1	3CSWD308	UI/UX Design	3	-	-	3	3	40	20	40	--	--
03	VI	MM	LIT2	3CSWD325	PHP and Database Programming	3	-	2	3	4	40	20	40	50	--
04	VII	MM	T1	3CSWD413	Advanced Web Applications	3	-	-	3	3	40	20	40	--	--
Total						12	00	04	1 2	14					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination															
Minimum Passing Criteria				TA (Theory): ≥8/20		MSE + ESE(Theory): ≥32/80		TA (Theory) / CIA (Lab): ≥20/50				ESE (Lab): ≥20/50			

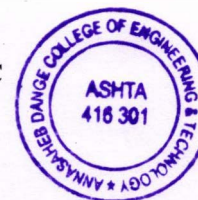
2] Minor Stream: Cyber Security(CS)

Sr. No .	SEM	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
											Theory			Laboratory	
											MSE	TA	ESE	CIA	ESE
01	IV	MM	LIT2	3CSCS219	Cyber Security Tools and Techniques	3	-	2	3	4	40	20	40	50	--
02	V	MM	T1	3CSCS309	Cyber Security and Cyber Laws	3	-	-	3	3	40	20	40	--	--
03	VI	MM	LIT2	3CSCS326	Ethical Hacking and Web Security	3	-	2	3	4	40	20	40	50	--
04	VII	MM	T1	3CSCS414	Digital Forensics	3	-	-	3	3	40	20	40	--	--
Total						12	00	04	12	14					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination															
Minimum Passing Criteria				TA (Theory): ≥8/20		MSE + ESE(Theory): ≥32/80			TA (Theory) / CIA (Lab): ≥20/50				ESE (Lab): ≥20/50		

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3] Minor Stream: Data Science(DS)

Sr. No.	SEM	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
											Theory			Laboratory	
											MSE	TA	ESE	CIA	ESE
01	IV	MM	LIT2	3CSDS220	Python for Data Science	3	-	2	3	4	40	20	40	50	--
02	V	MM	T1	3CSDS310	Big Data Analytics	3	-	-	3	3	40	20	40	--	--
03	VI	MM	LIT2	3CSDS327	Machine Learning for Data Science	3	-	2	3	4	40	20	40	50	--
04	VII	MM	T1	3CSDS415	Data Visualization	3	-	-	3	3	40	20	40	--	--
Total						12	00	04	12	14					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination															
Minimum Passing Criteria			TA (Theory): ≥8/20		MSE + ESE(Theory): ≥32/80		TA (Theory) / CIA (Lab): ≥20/50				ESE (Lab): ≥20/50				

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Emerging Specialization Minor Tracks (18 Credits)

1] Emerging Minor Stream: Quantum Technologies (QT)

Sr. No.	SEM	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
											Theory			Laboratory	
											MSE	TA	ESE	CIA	ESE
01	IV	SM	LIT2	3CSQT221	Introduction to Quantum Technologies	3	-	2	3	4	40	20	40	50	--
02	V	SM	T1	3CSQT311	Quantum Communication	3	-	-	3	3	40	20	40	--	--
03	VI	SM	LIT2	3CSQT328	Quantum Computing	3	-	2	3	4	40	20	40	50	--
04	VII	SM	T1	3CSQT416	Quantum Materials	3	-	-	3	3	40	20	40	--	--
05	VIII	SM	L2	3CSQT426	Minor Project	-	-	8	-	4	--	--	--	50	--
Total						12	00	12	12	18					

2] Emerging Minor Stream: Augmented Reality and Virtual Reality (AR)

Sr. No.	SEM	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
											Theory			Laboratory	
											MSE	TA	ESE	CIA	ESE
01	IV	SM	LIT2	3CSAR222	Computer Graphics and Multimedia	3	-	2	3	4	40	20	40	50	--
02	V	SM	T1	3CSAR312	Fundamentals of Augmented Reality and Virtual Reality	3	-	-	3	3	40	20		--	--
03	VI	SM	LIT2	3CSAR329	AR/VR Application Development using Unity	3	-	2	3	4	40	20	40	50	--
04	VII	SM	T1	3CSAR417	Mobile VR and AI	3	-	-	3	3	40	20	40	--	--
05	VIII	SM	L2	3CSAR427	Minor Project	-	-	8	-	4	--	--	--	50	--
Total						12	00	12	12	18					

Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination

Minimum Passing Criteria

TA (Theory): $\geq 8/20$ MSE + ESE(Theory): $\geq 32/80$ TA (Theory) / CIA (Lab): $\geq 20/50$ ESE (Lab): $\geq 20/50$

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Honors with Research (20 Credits)

Sem	Course Category	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
									Theory			Laboratory	
									MSE	TA	ESE	CIA	ESE
VII	EL	3CSEL426	Research Project -I	-	-	20	-	10	-	-	-	50	50
VIII	EL	3CSEL427	Research Project -II	-	-	20	-	10	-	-	-	50	50
Total						40		20					
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination													
Minimum Passing Criteria			TA (Theory): ≥8/20	MSE + ESE(Theory): ≥32/80			TA (Theory) / CIA (Lab): ≥20/50			ESE (Lab): ≥20/50			

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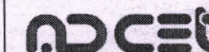


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Bridge Course: (DSY - Lateral Entry Students admitted from Same Parent Branch)

Sr. No.	Semester	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
											Theory			Laboratory	
											MSE	TA	ESE	CIA	ESE
01	I	ES	L2	3CSES107	Design Thinking	0	0	2	1	1	-	-		50	
02	II	ES	T1	3CSES112	Introduction to Emerging Technologies	2	0	0	1	2	-	-	100		
03	II	VS	L2	3CSVS116	IDEA Lab Workshop	1	0	2	1	2	-	-	-	50	-
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination															
Minimum Passing Criteria						CIA (Lab): ≥20/50					ESE (Theory): ≥40/100				

***Note:** All Direct Second Year students admitted to the B.Tech. Computer Science and Engineering programme shall compulsorily undergo the prescribed bridge courses. Students admitted from diploma programmes other than the parent discipline shall additionally complete bridge courses as prescribed by the designated committee.

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Chairman -BoS

Member Secretary-AC



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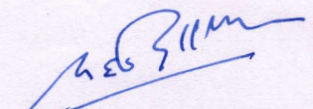
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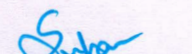


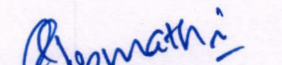
Bridge Course: Changes in Curriculum Revision R2 to R3

Sr. No.	Semester	Course Category	Course Type	Course Code	Course Name	L	T	P	S	Cr	Evaluation Scheme (Marks)				
											Theory			Laboratory	
											MSE	TA	ESE	CIA	ESE
01	II	ES	T1	3CSES112	Introduction to Emerging Technologies	2	0	0	1	2	-	-	100	-	-
02	II	ES	L1	3CSES113	Python Programming	2	0	2	2	3	-	-	-	50	-
03	II	VS	L2	3CSVS116	IDEA Lab Workshop	1	0	2	1	2	-	-	-	50	-
Legends: L-Lecture, T-Tutorial, P-Practical, S-Self Study, Cr-Credits, MSE - Mid-Semester Examination. CIA-Continuous Internal Assessment, TA - Teachers Assessment, ESE-End-Semester Examination															
Minimum Passing Criteria					CIA (Lab): $\geq 20/50$					ESE (Theory): $\geq 40/100$					

***Note:** Students shall complete the prescribed Semester I Bridge Courses during Semester III (Odd Semester) and the prescribed Semester II Bridge Courses during Semester IV (Even Semester).


Member Secretary-BoS


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