

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

Department of Computer Science and Engineering

MAHIRAVANI, TRIMBAK ROAD, TAL & DIST: NASHIK-422213, MAHARASHTRA,INDIA

B. Tech Compute Sciences and Engineering (CSE) Semester - III **Teaching Examination Scheme** Scheme (Hrs./Week) Course **Total** Sr. Course Name **Formative Summative** Marks Core Code No. Assessment Assessment Т P \mathbf{C} L CIA **ESE** Course Lab Course Lab Discrete Mathematics and 1. 3 **PCC** 3 50 100 100 --NYCS301 Logic 3 3 **PCC Computer Graphics** 100 50 100 2. NYCS302 3 **PCC Data Structures** 3 50 100 100 NYCS303 3. 25^b **PCC** Laboratory Practice-I 2 1 25 50 NYCS311 4. 3 OE Open Elective-I 3 --50 100 100 5. The Constitution & Human 6. 2 2 **VEC** 50 100 100 NLWV01 Rights Minor Course 1 # 7. **MDM** (Introduction To Embedded 2 50 100 100 NYCEM01 Systems) Community Engagement 8. 4 **CEP** 2 50 50a 100 NYCS312 **Project** Key Competencies for 9. AEC 0 0 4 2 50a 100 50 NHS11 Career Growth 16 **TOTAL** 00 10 21 300 125 600 125 850 **Open Elective I** Fundamental of Computer 6 OE 3 3 50 100 100 NYCSO01 **Basics** 6 3 OE 3 50 100 100 Multimedia System NYCSO02 Value Added Course (Any One) Advanced Python VAC 10 2 25 25 **Programming** 11 VAC 2 Programming in C++ 25 25

Chairperson, BoS (SOCSE)

Associate Dean (SOCSE)

Document Reference	Revision No. / Date	Prepared By	Approved By
SUN/SOCSE/UG/BTECH/CSE/2025	R13 30/05/2025		



SANDIP SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

Department of Computer Science and Engineering

MAHIRAVANI, TRIMBAK ROAD, TAL & DIST: NASHIK-422213, MAHARASHTRA,INDIA

Assessment for Theory Course (Scaled to allotted marks)					
CIA	Weightage	Description			
CIA 1	10%	Home Assignments			
CIA 2	20%	Written Exam Components			
CIA 3	10%	Activity/Project and Research Based Learning along with Seminar Presentation			
CIA 4	10%	Behavioral Attitude and General Discipline (5%), Theory and Practical Attendance (5%)			
ESE	50%	End Semester Examination			
TOTAL	100%				

Chairperson, BoS (SOCSE) Associate Dean (SOCSE)

Document Reference	Revision No. / Date	Prepared By	Approved By
SUN/SOCSE/UG/BTECH/CSE/2025	R13 30/05/2025		



SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

Department of Computer Science and Engineering

MAHIRAVANI, TRIMBAK ROAD, TAL & DIST: NASHIK-422213, MAHARASHTRA,INDIA

B. Tech Compute Sciences and Engineering (CSE) Semester - IV Teaching **Examination Scheme** Scheme (Hrs./Week) Course Total Sr. Core Course Name **Formative Summative** Marks Code No. Assessment Assessment T P \mathbf{C} L CIA **ESE** Course Lab Course Lab Object Oriented **PCC** 3 3 100 100 1 NYCS401 50 Programming using Java Database Management NYCS402 2 **PCC** 3 3 50 100 100 System Computer Organization & 3 3 **PCC** 3 NYCS403 50 100 100 Architecture 2 **PCC** NYCS411 Laboratory Practice-II 4 1 25 25 50 3 3 5 Open Elective-II 50 100 OE _____ --100 __ 2 2 6 **MDM** Minor course 2 # 50 100 100 Strategic Communication 7 NHS12 2 4 50 50 100 **AEC** -for Professionals TOTAL 14 00 04 19 75 250 500 75 650 Open Elective II (Any One) Introduction to Artificial 5 NYCSO03 3 OE. 50 50 100 Intelligence OE NYCSO04 Introduction to DBMS 3 3 50 50 100 5 Value Added Course (Any One) VAC Advanced Java 2 8 25 25 (VSEC) Programming VAC 8 MySql 25 25 (VSEC) Course Work (for Exit Criterion to UG Diploma) Prompt Engineering for 9 EC NYCSX01 3 50 100 100 Software Development NYCSX02 Python Programming EC 3 3 10 50 100 100 for AI NYCSX03 EC Internship (2 Weeks) 2 50 11 50

Chairperson, BoS (SOCSE)

Associate Dean (SOCSE)

Document Reference	Revision No. / Date	Prepared By	Approved By
SUN/SOCSE/UG/BTECH/CSE/2025	R13 30/05/2025		



SANDIP SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

Department of Computer Science and Engineering

MAHIRAVANI, TRIMBAK ROAD, TAL & DIST: NASHIK-422213, MAHARASHTRA,INDIA

	Assessment for Theory Course (Scaled to allotted marks)					
CIA Weightage		Description				
CIA 1	10%	Home Assignments				
CIA 2	20%	Written Exam Components				
CIA 3	10%	Activity/Project and Research Based Learning along with Seminar Presentation				
CIA 4	10%	Behavioral Attitude and General Discipline (5%), Theory and Practical Attendance (5%)				
ESE	50%	End Semester Examination				
TOTAL	100%					

Chairperson, BoS (SOCSE) Associate Dean (SOCSE)

Document Reference	Revision No. / Date	Prepared By	Approved By
SUN/SOCSE/UG/BTECH/CSE/2025	R13 30/05/2025		



SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

Department of Computer Science and Engineering

MAHIRAVANI, TRIMBAK ROAD, TAL & DIST: NASHIK-422213, MAHARASHTRA, INDIA

B. Tech Compute Sciences and Engineering (CSE) Semester -V **Formative Summative** Assessment Assessment T P \mathbf{C} Total L CIA **ESE** Course Course Lab Lab Theory of Computation 1 **PCC** NYCS501 3 3 50 100 100 NYCS502 2 **PCC** 3 3 Operating System 50 100 100 NYCS503 **PCC** 3 **Data Communication** 3 3 50 100 100 NYCS511 Laboratory Practice-III 4 **PCC** 2 4 25 25 50 5 PE NYCS-Program Elective-I 3 3 50 100 100 6 **OE** Open Elective III 2 2 50 100 100 7 MDM Minor Course 3# 3 3 50 100 100 8 **AEC Essential Aptitude Skills** 4 2 50 50 100 NHSA13 **TOTAL** 00 8 22 300 **50** 600 **50** 18 **750 Open Elective III** NYCSO05 7 **OE** Cyber Law & Ethics 3 50 50 100 NYCSO06 Introduction to Reverse 7 OE 3 50 50 Engineering 100 Value Added Course (Any One) VAC 10 Advanced Java Programming 2 50 50 (VSEC) VAC 10 Networking 2 50 50 (VSEC) **Honors Courses (HC)** HC 3 3 11 NYCS-Advanced DBMS 50 100 100

Chairperson, BoS (SOCSE)

Associate Dean (SOCSE)

Document Reference	Revision No. / Date	Prepared By	Approved By
SUN/SOCSE/UG/BTECH/CSE/2025	R13 30/05/2025		



SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

Department of Computer Science and Engineering

MAHIRAVANI, TRIMBAK ROAD, TAL & DIST: NASHIK-422213, MAHARASHTRA,INDIA

Assessment for Theory Course (Scaled to allotted marks)					
CIA Weightage		Description			
CIA 1	10%	Home Assignments			
CIA 2	20%	Written Exam Components			
CIA 3	10%	Activity/Project and Research Based Learning along with Seminar Presentation			
CIA 4	10%	Behavioral Attitude and General Discipline (5%), Theory and Practical Attendance (5%)			
ESE	50%	End Semester Examination			
TOTAL	100%				

Chairperson, BoS (SOCSE)

Associate Dean (SOCSE)

Document Reference	Revision No. / Date	Prepared By	Approved By
SUN/SOCSE/UG/BTECH/CSE/2025	R13 30/05/2025		



SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

Department of Computer Science and Engineering

MAHIRAVANI, TRIMBAK ROAD, TAL & DIST: NASHIK-422213, MAHARASHTRA, INDIA

B. Tech Compute Sciences and Engineering (CSE) Semester – VI

					•	g Sch ./We		Examination Scheme				
Sr. No.	Core	Course Code	Course Name	L	Т	P	C	Forma Assessi CIA		Summ Assess ESE		Total Mark s
				L	1	1	C	Course	Lab	Course	Lab	
1.	PCC	NYCS601	Design and Analysis of Algorithm	3			3	50		100		100
2.	PCC	NYCS602	Computer Networks	3			3	50		100		100
3.	PCC	NYCS603	Software Engineering	3			3	50		100		100
4.	PC	NYCS611	Laboratory Practice-IV			2	1		25		25 ^b	50
5.	PE	NYCS-	Program Elective-II	3			3	50	-	50		100
6.	PE	NYCS-	Program Elective-III	3			3	50		50		100
7.	MDM		Minor Course 4#	2			2	50		50		100
8.	AEC	NHSA14	Employability Skills and Career Advancement	1	1	4	2		50		50	100
TOTAL		17		12	22	300	75	300	175	850		
			Value Added Co	ourse	(An	y On	ie)					
11	VAC (VSEC)		Wireless Sensor Network	-	-	2			50			50
11	VAC (VSEC)		Advanced Web Designing Course			2			50		-	50
			Honors Co	urses	(HC	C)						
12	НС	NYCS-	Advanced OS	3			3	50		100		100
Course Work (for Exit Criterion to UG Diploma) (B. Voc)												
13	CE	NYCSX04	Networking Essentials	3	-		3	50	-	100		100
14	CE	NYCSX05	Machine Learning with Practical Applications	3	-		3	50		100		100
15	CE	NYCSX06	Internship (4 weeks)		-		2		50			50

Chairperson, BoS (SOCSE)

Associate Dean (SOCSE)

Document Reference	Revision No. / Date	Prepared By	Approved By
SUN/SOCSE/UG/BTECH/CSE/2025	R13 30/05/2025		



SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

Department of Computer Science and Engineering

MAHIRAVANI, TRIMBAK ROAD, TAL & DIST: NASHIK-422213, MAHARASHTRA,INDIA

Assessment for Theory Course (Scaled to allotted marks)					
CIA Weightage		Description			
CIA 1	10%	Home Assignments			
CIA 2	20%	Written Exam Components			
CIA 3	10%	Activity/Project and Research Based Learning along with Seminar Presentation			
CIA 4	10%	Behavioral Attitude and General Discipline (5%), Theory and Practical Attendance (5%)			
ESE	50%	End Semester Examination			
TOTAL	100%				

Chairperson, BoS (SOCSE)

Associate Dean (SOCSE)

Document Reference	Revision No. / Date	Prepared By	Approved By
SUN/SOCSE/UG/BTECH/CSE/2025	R13 30/05/2025		



SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

Department of Computer Science and Engineering

MAHIRAVANI, TRIMBAK ROAD, TAL & DIST: NASHIK-422213, MAHARASHTRA, INDIA

B. Tech Compute Sciences and Engineering (CSE) Semester – VII

					_	Sche Veek)		Examinati		ation Sch	tion Scheme	
Sr. No.	Core Course Code	0 0 000	Carrena Nama	L T	P	C			Assess	Summative Assessment ESE		
						Ĺ		Course	Lab	Course	Lab	
1.	PCC	NYCS701	Complier Design	3			3	100		100		100
2.	PCC	NYCS702	Data Science and Machine Learning	3			3	100		100		100
3.	PEC	NYCS-	Program Elective-IV	2			2	100		50		100
4.	MDM		Minor Course 5#	2			2	100		50		100
5.	ELC	NYCS711	Industry Internship*				12		100		100 ^a	200
6.	AEC	NHSA15	Corporate Readiness & Entrepreneurial Excellence			2	2		50		50	100
TOTAL 10 00 06 2				26	400	200	400	200	800			
			Value Add	led C	ours	e						
7	VAC (VSEC)	VAC105	Genetic Algorithm & its Applications			2						
			Honors Co	urses	(HC	C)						
8	НС	NYCS-	Advanced CN	3			3	50		100		100
	*45 Day	s Internship d	uring summer vacation of 6 th Se	meste	r			1	1	1	1	

Chairperson, BoS (SOCSE)

Associate Dean (SOCSE)

Document Reference	Revision No. / Date	Prepared By	Approved By
SUN/SOCSE/UG/BTECH/CSE/2025	R13 30/05/2025		



SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

Department of Computer Science and Engineering

MAHIRAVANI, TRIMBAK ROAD, TAL & DIST: NASHIK-422213, MAHARASHTRA,INDIA

Assessment for Theory Course (Scaled to allotted marks)					
CIA	Weightage	Description			
CIA 1	10%	Home Assignments			
CIA 2	20%	Written Exam Components			
CIA 3	10%	Activity/Project and Research Based Learning along with Seminar Presentation			
CIA 4	10%	Behavioral Attitude and General Discipline (5%), Theory and Practical Attendance (5%)			
ESE	50%	End Semester Examination			
TOTAL	100%				

Chairperson, BoS (SOCSE)

Associate Dean (SOCSE)

Document Reference	Revision No. / Date	Prepared By	Approved By
SUN/SOCSE/UG/BTECH/CSE/2025	R13 30/05/2025		



SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

Department of Computer Science and Engineering

MAHIRAVANI, TRIMBAK ROAD, TAL & DIST: NASHIK-422213, MAHARASHTRA,INDIA

B. Tech Compute Sciences and Engineering (CSE) Semester - VIII **Teaching Scheme Examination Scheme** (Hrs./Week) Total Course Sr. Formative **Summative** Core Course Name Marks No. Code Assessment Assessment T P \mathbf{C} L CIA **ESE** Course Lab Course Lab 1. **PCC** NYCS801 Cryptography and Security 3 3 50 100 100 **PCC** NYCS802 **High Performance Computing** 3 3 50 100 100 2. **PCC** NYCS-Program Elective V 2 2 50 100 100 --3. **PCC** 3 3 4. NYCS-Program Elective VI 50 100 100 5. ELC NYCS803 Research Methodology 4 4 50 100 100 100 6. NYCS811 8 4 **ELC** Project 100 150 2 2 **MDM** Minor Course 6# 50 100 100 7. TOTAL 16 00 08 21 300 100 100 600 800 Value Added Course (Any One) VAC 8 Introduction to Industry4.0/5.0 2 (VSEC) Cryptography-Practical VAC 8 2 25 25 (VSEC) Approach **Honors Courses (HC)** 9 HC 3 **NYCS** Advanced Complier Design 50 100 100

Chairperson, BoS (SOCSE)

Associate Dean (SOCSE)

Document Reference	Revision No. / Date	Prepared By	Approved By
SUN/SOCSE/UG/BTECH/CSE/2025	R13 30/05/2025		



SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

Department of Computer Science and Engineering

MAHIRAVANI, TRIMBAK ROAD, TAL & DIST: NASHIK-422213, MAHARASHTRA,INDIA

	Assessment for Theory Course (Scaled to allotted marks)					
CIA Weightage		Description				
CIA 1	10%	Home Assignments				
CIA 2	20%	Written Exam Components				
CIA 3	10%	Activity/Project and Research Based Learning along with Seminar Presentation				
CIA 4	10%	Behavioral Attitude and General Discipline (5%), Theory and Practical Attendance (5%)				
ESE	50%	End Semester Examination				
TOTAL	100%					

Chairperson, BoS (SOCSE)

Associate Dean (SOCSE)

Document Reference	Revision No. / Date	Prepared By	Approved By
SUN/SOCSE/UG/BTECH/CSE/2025	R13 30/05/2025		