SCHOOL OF COMPUTER SCIENCE & ENGINEERING DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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

CURRICULA FOR UG PROGRAMS

Table 1: Coverage of Subject Area over Curriculum (UG Programs)

Semester	Subject Area Coverage									
	Basic Science Courses, Engineering Science Course, Program Core									
I-II	Courses, Vocational and Skill Enhancement Courses, Ability									
1-11	Enhancement Courses, Indian Knowledge System (IKS), Co-curricular									
	Courses.									
	Combined institute and program core courses, Open Electives,									
	Multidisciplinary Minor, Value Added Courses, Vocational and Skill									
III-IV	Enhancement Courses, Ability Enhancement Courses,									
	Entrepreneurship/Economics/Management Course, Value Education									
	Courses, Community Engineering Project.									
	Combined institute and program core courses, Program Electives,									
V-VI	Multidisciplinary Minor, Open Elective, Vocational and Skill									
	Enhancement Course.									
VII - VIII	Program Core Courses, Program Electives, Multidisciplinary Minor,									
V11 - V111	Internship, Research Methodology, Project work.									

Assessment for Theory Course (Scaled to allotted marks)								
CIA	Weightage (Marks)	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							



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			Formative	Assessment		
CIA: Continuous Internal	*: Oral Examination	CIA	Weightage	Description		
Assessment	PCC: Program Core course	CIA 1	10%	Home Assignment		
L: Theory Lecture	PEC : Programme elective Core	CIA 2	20%	Written Exam		
T: Tutorial	OE: Open Elective	- CH12	2070	William Email		
P: Practical	VAC: Value Added Courses	CIA 3	10%	Seminar Presentation		
ESE: End Semester Exam	AEC : Ability Enhancement Courses CEP/FP: Community	CIA 4	10%	 Behavioral Attitude + General Discipline (5%) Theory + practical 		
	Engineering Project/Field Project			attendance 5%)		
	VSEC: Vocational and Skill					
	Enhancement Course	TOTAL	50%			
	MDM: Multidisciplinary		3070			
	Minor Course					

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Multidisciplinary Minor offered by Computer Science & Engineering Department Minor in Cloud Technology and Information Security

Sr. No.	Course Name	Course Code	Scheme	Credits	Semester
1	Object Oriented Programming	NYCTM 2-0-0			
2	Cloud Computing NYCTM 2-0-0 2		2	IV	
3	Cloud Architecture	NYCTM	4-0-0	4	V
4	AWS for Cloud Computing	WS for Cloud Computing NYCTM 2-0-0		2	VI
5	Data Mining and Data warehouse	NYCTM	2-0-0	2	VII
6	Cloud Security	NYCTM	2-0-0	2	VIII
	TOTA	14			

Honors Courses offered by Computer Science & Engineering Department Minor in Cloud Technology and Information Security

Sr. No.	Course Name	Course Code	Credits	Semester	
1	Cloud Migration	NYCTH01	3-0-0	3	V
2	Advanced Cloud Computing	NYCTH02	3-0-0	3	V
3	Cloud Architecture	NYCTH03	3-0-0	3	VI
4	Cloud Database	NYCTH03 3-0-0		3	VI
5	Cloud Networking	oud Networking NYCTH04 3-0-0		3	VII
6	Cloud Security	NYCTH05	3-0-0	3	VIII
	TOTAL		18		



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Open Electives offered by Computer Science & Engineering Department in Cloud Technology and Information Security

Sr. No.	Open Elective #	Course Name	Course Code	Scheme	Credits	Semester
1	Open Elective I	Fundamental of Computer Basics	NYCSO01 3-0-0		3	III
2	Open Elective I	Multimedia System	NYCSO02	3-0-0		III
3	Open Elective II	Introduction to Artificial Intelligence	NYCSO03	3-0-0	3	IV
4	Open Elective II	Introduction to DBMS	NYCSO04	3-0-0		IV
5	Open Elective III	Cyber Law & Ethics	NYCSO05	2-0-0	2	V
6	Open Elective III	Introduction to Reverse Engineering	NYCSO06	2-0-0	2	V
		TOTAL			08	

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Program Elective Courses offered by Computer Science & Engineering Department in Cloud Technology and Information Security

Sr. No.	Program Elective Courses#	Course Name	Course Code	Scheme	Credits	Semester
1	PEC#1	Introduction to Information Security	NYCTE01	3-0-0	3	V
2	PEC#1	Cyber Forensics Investigation	NYCTE02	3-0-0		V
3	PEC#2	Ethical Hacking	NYCTE03	3-0-0		VI
4	PEC#2	Cloud Application and Web Security	NYCTE04	3-0-0	3	VI
5	PEC#3	Artificial Intelligence in Cloud Security	NYCTE05	3-0-0	3	VI
6	PEC#3	Cloud DevOps	NYCTE06	3-0-0		VI
7	PEC#4	Infrastructure solutions on cloud	NYCTE07	3-0-0	3	VII
8	PEC#4	Mobile Security	NYCTE08	3-0-0	3	VII
9	PEC#5	Cloud Migration	NYCTE09	3-0-0		VIII
10	PEC#5	IT Governance, Risk, and information security management	NYCTE10	3-0-0	3	VIII
11	PEC#6	Emerging Trends in Cloud Security	NYCTE11	3-0-0		VIII
12	PEC#6	Security and Privacy in Big Data Analytics	NYCTE12	3-0-0	3	VIII
		TOTAL			18	



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B. Tech. Computer Science and Engineering(Specialization in Cloud Technology and Information Security) Semester – III

			Course Name			Sche Week)		Ex	amina	ntion Scho	eme	
Sr. No.	Course Type	Course Code		L	Т	P	C	Form: Assess CI	ment	Summ Assess ES	ment	Total Marks
				L	1	1		Theo ry	Lab	Theory	Lab	
1	PCC	NYCT301	Discrete Mathematics and Logic	3			3	50		100	-	100
2	PCC	NYCT302	Fundamental of Information Security	3			3	50		100	1	100
3	PCC	NYCT303	Data Structures	3			3	50		100	1	100
4	PCC	NYCT311	Data Structure Laboratory			2	1		50		50*	50
5	MDM		Minor Course #1	2			2	50		100		100
6	OE	NYCTO01	Open Elective-I	3			3	50		100	-	100
7	AEC (HSSM)	NHSA11	Key Competencies for Career Growth			4	2		50		50*	50
8	VEC (HSSM)	NLWV01	The Constitution & Human Rights	2			2	50		100		100
9	CEP	NYCT312	Community Engineering Project			4	2		50		50*	50
	TOTAL			16	00	10	21	300	150	600	150	750
			Value Ad	ded (Cour	se						
10	VAC		Information Security Practice			2			25		-	25



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		Formative Assessment				
CIA:	*: Oral Examination	CIA	Weightage	Description		
Continuous	PCC: Program Core course	CIA 1	10%	Home Assignment		
Internal	PEC : Programme elective Core	CIA 2	20%	Written Exam		
Assessment	OE: Open Elective	CIA 3	10%	Seminar Presentation		
L: Theory Lecture T: Tutorial P: Practical	VAC: Value Added Courses AEC: Ability Enhancement Courses CEP/FP: Community Engineering Project/Field Project	CIA 4	10%	 Behavioral Attitude + General Discipline (5%) Theory + practical attendance (5%) 		
ESE: End Semester Exam	VSEC: Vocational and Skill Enhancement Course MDM: Multidisciplinary Minor Course	TOTAL	50%			



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B. Tech. Computer Science and Engineering(Specialization in Cloud Technology and Information Security) Semester – IV

				Teac (H	hing Irs./\			Examination Scheme				Total Marks
Sr. No.	Course Type	Course Code	Course Name			P	С	Form: Assess CIA	ment	Summative Assessment ESE		
								Theory	Lab	Theory	Lab	
1	PCC	NYCT401	Object Oriented Programming using Java	3			3	50		100		100
2	PCC	NYCT402	Database Management System	3			3	50		100		100
3	PCC	NYCT403	Computer Organization and Architecture	3			3	50		100		100
4	PCC	NYCT411	Database Management System Laboratory			2	1		50		50*	50
5	MDM		Minor course 2 #	2			2	50		100		100
6	OE		Open Elective-II	3			3	50		100		100
7	VSEC	NYCT412	Object Oriented Programming Laboratory			4	2		50		50*	50
8	AEC (HSSM)	NHSA12	Strategic Communication for professionals			4	2		50		50*	50
9	EEMC (HSSM)	NYCT413	Personal Finance Management			4	2		50		50*	50
10	VEC (HSSM)	NYCT414	Innovation and Entrepreneurship			4	2		50		50*	50
	- 1	TO	TAL	14		18	23	250	250	500	250	750
			Value Ad	ded C	ours	e						
9	VAC		MySql			2			25			25



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			Formative	e Assessment
CIA:	*: Oral Examination	CIA	Weightage	Description
Continuous	PCC: Program Core course	CIA 1	10%	Home Assignment
Internal	PEC : Programme Elective Core	CIA 2	20%	Written Exam
Assessment	OE: Open Elective	CIA 3	10%	Seminar Presentation
L: Theory Lecture T: Tutorial P: Practical	VAC: Value Added Courses AEC: Ability Enhancement Courses CEP/FP: Community Engineering Project/Field Project	CIA 4	10%	 Behavioral Attitude + General Discipline (5%) Theory + practical attendance (5%)
ESE: End Semester Exam	VSEC: Vocational and Skill Enhancement Course MDM: Multidisciplinary Minor Course	TOTAL	50%	

Exit option:

- Award of UG Certificate in exiting the First Year programme after securing minimum 40 credits will be awarded UG Certificate in the Computer Sciences and Engineering (Specialization in Cloud Technology and Information Security) provided they secure 8 credits in work-based vocational courses or internship / Apprenticeship offered during summer vacation in addition to 4 credit from skill based courses earn during first and second semester. **Refer Annexure 1**
- Award of UG Diploma in exiting the second Year programme after securing minimum 80 credits will be awarded UG Diploma in the Computer Sciences and Engineering (Specialization in Cloud Technology and Information Security) provided they secure 8 credits in work-based vocational courses or internship / Apprenticeship offered during summer vacation in addition to 4 credit from skill based courses earn during first and second semester. Refer Annexure 1



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Annexure-1

	Course Work (for Exit Criterion to UG Diploma)											
			Scheme		Teaching Scheme (Hrs./Week)				Examination Scheme			
Sr. No.	Core	Course Code			С		native sment	Summative Assessment ESE		Total Marks		
				L	-			Cour se	Lab	Course	Lab	
1	EC	NYCSX01	Prompt Engineering for Software Development	3			3	50		100		100
2	EC	NYCSX02	Python Programming for AI	3			3	50		100		100
3	EC	NYCSX03	Internship (2 Weeks)				2		50			50



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B. Tech. Computer Science and Engineering(Specialization in Cloud Technology and Information Security) Semester – V

					Sch	eaching cheme Examination Scheme rs./Week)			ne	Total Marks		
Sr. No.	Course Type	Course Code	Course Name	L	Т	P	C	Formative Summar Assessment CIA ESE		ment		
								Theory	Lab	Theory	Lab	
1	PCC	NYCT501	Theory of Computation	3		-	3	50	-	100	-	100
2	PCC	NYCT502	Operating System	3			3	50		100		100
3	PCC	NYCT503	Data Communication	3			3	50		100		100
4	PCC	NYCT511	Operating System Lab			2	1		50		50*	50
5	PEC	NYCTE	Program Elective-I	3			3	50		100		100
6	MDM		Minor course 3 #	3			3	50		100		100
7	OE		Open Elective III	2			2	50		100		100
8	AEC (HSSM)	NHSA13	Essential Aptitude Skills			4	2		50		50*	50
TOTAL			17	00	06	20	300	100	600	100	700	
Value Added Course (VAC)												
9	VAC		Network Programming			2			25			25



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		Formative Assessment						
CIA:	*: Oral Examination	CIA	Weightage	Description				
Continuous	PCC: Program Core course	CIA 1	10%	Home Assignment				
Internal	PEC : Programme Elective Core	CIA 2	20%	Written Exam				
Assessment	OE:Open Elective	CIA 3	10%	Seminar Presentation				
L: Theory Lecture T: Tutorial	VAC: Value Added Courses AEC: Ability Enhancement Courses CEP/FP: Community Engineering	CIA 4	10%	 Behavioural Attitude + General Discipline (5%) Theory + Practical attendance (5%) 				
P: Practical ESE: End Semester Exam	Project /Field Project VSEC: Vocational and Skill Enhancement Course MDM: Multidisciplinary Minor Course	TOTAL	50%					



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B. Tech. Computer Science and Engineering(Specialization in Cloud Technology and Information Security) Semester – VI

				Teaching Scheme (Hrs./Week)			Exa	Total Marks				
Sr. No.	Course Type	Course Code	Course Name	L	Т	P	C	Formative Assessment CIA		Summative Assessment ESE		
								Theory	Lab	Theory	Lab	
1	PCC	NYCT601	Design and Analysis of Algorithm	3			3	50		100		100
2	PCC	NYCT602	Computer Networks	3			3	50	-	100	-	100
3	PCC	NYCT603	Software Engineering	3			3	50		100		100
4	PCC	NYCT611	Design and Analysis of Algorithm Laboratory			2	1		50		50*	50
5	PEC	NYCTE	Program Elective-II	3			3	50		100		100
6	PEC	NYCTE	Program Elective-III	3			3	50	1	100		100
7	MDM		Minor Course 4#	2			2	50		100		100
8	VSEC	NYCT612	Computer Networks Laboratory			4	2		50		50*	50
9	AEC	NHSA14	Employability Skills and Career Advancement			4	2		50		50*	50
	TOTAL			17	00	10	22	300	150	600	150	750
			Value Adde	d Co	urse							
10	EEC		Cloud Computing Practice			2			50			50

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		Formative Assessment						
CIA:	*: Oral Examination	CIA	Weightage	Description				
Continuous	PCC: Program Core course	CIA 1	10%	Home Assignment				
Internal	PEC : Programme Elective Core	CIA 2	20%	Written Exam				
Assessment	OE: Open Elective	CIA 3	10%	Seminar Presentation				
L: Theory Lecture T: Tutorial	VAC: Value Added Courses AEC: Ability Enhancement Courses CEP/FP: Community Engineering	CIA 4	10%	 Behavioural Attitude + General Discipline (5%) Theory + Practical attendance (5%) 				
P: Practical ESE: End Semester Exam	Project /Field Project VSEC: Vocational and Skill Enhancement Course MDM: Multidisciplinary Minor Course	TOTAL	50%					

Exit option:

• Students exiting the 3-year UG program will be awarded B.Voc. In the Computer Sciences and Engineering (Specialization in Cloud technology and Information Security) upon securing minimum 120 credits with additional 8 credits in skill-based vocational courses (skill-based courses, internship, mini projects etc.) offered during summer vacation after the sixth semester. **Refer Annexure 2**

Annexure-2

			Course Work (for Exit	Crit	erio	n to	o U(G Diplo	ma)			
		Course	Teacl Sche (Hrs./V				e	Examination Scheme				T I.
Sr. No.	Core	Course Code	Course Name	L	Т	P	С	Formative Assessment CIA		Summative Assessment ESE		Total Marks
								Course	Lab	Course	Lab	
1	EC	NYCSX04	Networking Essentials	3			3	50		100		100
2	EC	NYCSX05	Cloud Computing with Practical Applications	3			3	50		100	-1	100
3	EC	NYCSX06	Internship (4 weeks)				2		50			50



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B. Tech. Computer Science and Engineering(Specialization in Cloud Technology and Information Security) Semester – VII

					_	s Sch ./We		Exai	minati	on Schem	Total Marks	
Sr. No.	Course Type	Course Code	Course Name	L	Т	P	C	Formative Assessment CIA		Summative Assessment ESE		
								Theory	Lab	Theory	Lab	
1	PCC	NYCT701	Complier Design	3			3	50		100		100
2	PCC	NYCT702	Data Science and Machine Learning	3			3	50		100		100
3	PEC	NYCTE	Program Elective-IV	2			2	50		100		100
4	MDM		Minor course 5 #	2			2	50		100		100
5	ELC	NYCT711	Internship				12		100		100*	200
6	AEC	NHSA15	Corporate Readiness and Entrepreneurial Excellence			4	2		50		50*	100
		TO	OTAL	10	00	04	24	200	150	400	150	700
	Value Added Course											
7	VAC		Data Science Essentials			2			25			25
*45 D	5 Days Internship during summer vacation of 6 th Semester											

45 Days Internship during summer vacation of 6th Semester

		Formative Assessment					
CIA:	*: Oral Examination	CIA	Weightage	Description			
Continuous	PCC: Program Core course	CIA 1	10%	Home Assignment			
Internal	PEC : Programme Elective Core	CIA 2	20%	Written Exam			
Assessment	OE: Open Elective	CIA 3	10%	Seminar Presentation			
L: Theory	VAC: Value Added Courses			Behavioural Attitude +			
Lecture	AEC : Ability Enhancement Courses	CIA 4	10%	General Discipline (5%)			
T: Tutorial	CEP/FP: Community Engineering			• Theory + practical attendance (5%)			
P: Practical	Project/Field Project						
ESE: End	VSEC: Vocational and Skill						
Semester Exam	Enhancement Course	TOTAL	50%				
	MDM: Multidisciplinary Minor						
	Course						



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B. Tech. Computer Science and Engineering(Specialization in Cloud Technology and Information Security) Semester – VIII

				L								
					thing Hrs./			Examination Scheme			ie	Total Marks
Sr. No.	Course Type	Course Code	Course Name	L	Т	P	C	Forma Assessi CI	ment	Summa Assessi ESI	nent	
								Theory	Lab	Theory	Lab	
1	PCC	NYCT801	Cryptography and Security	3			3	50		100		100
2	PCC	NYCT802	High Performance Computing	3			3	50		100		100
3	PEC	NYCTE	Program Elective V	3			3	50		100		100
4	PEC	NYCTE	Program Elective VI	3			3	50		100		100
5	RM	NRDP101	Research Methodology	4			4	50		100		100
6	ELC	NYCT811	Project			8	4		50		100*	100
7	MDM		Minor Course 6#	2			2	50		100		100
	TOTAL			18	00	08	22	300	50	600	100	700
			Value Addo	ed Co	urse							
8	VAC		Cryptography-A practical Approach			2			25			25

		Formative Assessment						
CIA:	*: Oral Examination	CIA	Weightage	Description				
Continuous	PCC: Program Core course	CIA 1	10%	Home Assignment				
Internal	PEC: Programme Elective Core	CIA 2	20%	Written Exam				
Assessment	OE: Open Elective	CIA 3	10%	Seminar Presentation				
L: Theory Lecture T: Tutorial P: Practical	VAC: Value Added Courses AEC: Ability Enhancement Courses CEP/FP: Community Engineering Project/Field Project	CIA 4	10%	 Behavioural Attitude + General Discipline (5%) Theory + practical attendance (5%) 				
ESE: End Semester Exam	VSEC: Vocational and Skill Enhancement Course MDM: Multidisciplinary Minor Course	TOTAL	50%					



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Credit Distribution

Semester		Total Credits as per GR	Total Credits SUN CSE-CTIS
Basic Science Course		14-18	16
Engineering Science Course	BSC/ESC	16-12	12
Programme Core Course (PCC)	D.,,, ,,,,,	44-56	52
Programme Elective Course (PEC)	- Program Courses	20	18
Multidisciplinary Minor (MD M)	Multidiscipli	14	14
Open Elective (OE) Other than a particular program	nary Courses	08	8
Vocational and Skill Enhancement Course (VSEC)	Skill Courses	08	08
Ability Enhancement Course (AEC -01, AEC-02)	Humanities	04	12
Entrepreneurship/ Economics / Management Course	Social Science and	04	02
Indian knowledge System (IKS)	- Management (HSSM)	02	02
Value Education Course (VEC)		04	04
Research Methedology		04	04
Comm. Engg. Project (CEP) / Field Project (FP)	Experiential Learning	02	02
Project	Courses	04	04
Internship/ OJT		12	12
Co-curricular Course (CC)	Liberal Learning Courses	04	04
Total Credits (Major)		160-176	174