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,						
V 11 - V 111	Internship, Research Methodology, Project work.						

Abbreviations

CIA	Continuous Internal Assessment	AEC	Ability Enhancement Course
L	Theory Lecture	BSC	Basic Science Course
T	Tutorial	ESC	Engineering Science Course
P	Practical	СЕР	Community Engagement Project
TC	Total Credits	EC	Exit Course
СР	Credits for Practical	HSSM	Humanities, Social Science and Management
CT	Credits for Theory	IKS	Indian Knowledge System
OE	Open Elective	VSEC	Vocational and Skill Enhancement Course
PCC	Programme Core Courses	MDM	Multidisciplinary Minor
PEC	Programme Elective Courses	LLC	Liberal Learning Course
VAC	Value Added Course	VEC	Value Education Course
HM	Honors / Minor Program Course	ELC	Experiential Learning Course
SDC	Skill Development Course	a	Oral/ Presentation Examination
EEC	Employability Enhancement Course	b	Practical Examination



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	Assessment for Theory Course (Scaled to allotted marks)								
CIA	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%								

			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	CIAZ	2070	WITHCH Exam
P: Practical	VAC: Value Added Courses	CIA 3	10%	Seminar Presentation
ESE: End Semester Exam	AEC : AbilityEnhancement curses			Behavioural
	CEP/FP:Communityencougement	CIA 4	10%	Attitude + General Discipline (5%)
	project/Field project			• Theory + practical
	VSEC: Vocational and Skill			attendance 5%)
	Enhancement Course			
	MDM: Multidisciplinary	TOTAL	50%	
	minor course			

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Multidisciplinary Minor offered by Computer Science & Engineering Department Minor in Cyber Security and Forensic

Sr.	Course Name	Course Code	Scheme	Credits	Semester
No.					
1	Cyber Ethic, Laws and Policy	NYCFM	2-0-0	2	3rd
2	Introduction to Cryptography	NYCFM	2-0-0	2	4th
3	Social Media Security	NYCFM	4-0-0	4	5th
4	BlockChain Technology	NYCFM	2-0-0	2	6th
5	Data Security and Privacy	NYCFM	2-0-0	2	7th
6	E-commerce and Digital Payments	NYCFM	2-0-0	2	8th
	TO		14		

Honors Courses offered by Computer Science & Engineering Department Minor in Cyber Security and Forensic

Sr.No.	Course Name	Course Code	Scheme	Credits	Semester
1	Fundamental of Cyber Security	NYCFH	3-0-0	3	4th
2	Advanced DBMS	NYCFH	3-0-0	3	5th
3	Advanced OS	NYCFH	3-0-0	3	6th
4	Advanced Computer Network	NYCFH	3-0-0	3	7th
5	Advanced Complier Design	NYCFH	3-0-0	3	8th
	TO	15			



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Open Electives offered by Computer Science & Engineering Department in Cyber Security and Forensic

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 Cyber Security and Forensic

Sr.	Program	Course Name	Course	Schem	Credits	Semester
No.	Elective Courses#		Code	e		
1	PEC#1	Big Data Technologies	NYCFE01	3-0-0	3	V
2	PEC#1	Information Theory and Coding	NYCFE02	3-0-0		V
3	PEC#2	Augmented Reality and Virtual Reality	NYCFE03	3-0-0	3	VI
4	PEC#2	Data Science	NYCFE04	3-0-0		VI
5	PEC#3	Enterprise Infrastructure security	NYCFE05	3-0-0	3	VI
6	PEC#3	Identity and Access management	NYCFE06	3-0-0		VI
7	PEC#4	Cyber Threat and Intelligence Management	NYCFE07	3-0-0	3	VII
8	PEC#4	Data Science for Cybersecurity and Forensics	NYCFE08	3-0-0		VII
9	PEC#5	Application and Web Security	NYCFE09	2-0-0	2	VIII
10	PEC#5	Cloud Security	NYCFE10	2-0-0		VIII
11	PEC#6	High Performance Computing	NYCFE11	3-0-0		VIII
12	PEC#6	Cyber Physical System Security	NYCFE12	3-0-0	3	VIII
	•	TOTAL	•	•	17	



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

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	B. Tech Compute Sciences and Engineering(Specialization in Cyber Security and Forensic) Semester – III											
				1	_	Sche Week		Ex	amina	tion Scho	eme	
Sr. No.	Course Type	Course Code	Course Name	L	Т	P	C	Form Assess CI	ment	Summ Assess ES	ment	Total Marks
				L	1	1		Theo ry	Lab	Theory	Lab	
1	PCC	NYCF301	Discrete Mathematics and Logic	3			3	50		100		100
2	PCC	NYCF302	Cyber Security and Laws	3			3	50		100		100
3	PCC	NYCF303	Data Structures	3			3	50		100		100
4	PCC	NYCF311	Data Structure Laboratory			2	1		50		50*	50
5	OE	NYCFO01	Open Elective-I	3			3	50		100		100
6	VEC	NLWV01	The Constitution & Human Rights	2			2	50		100		100
7	MDM		Minor Course #1	2			2	50		100		100
8	CEP	NYCF312	Community Engagement Project			4	2		50		50*	50
9	AEC	NHSA11	Key Competencies for Career Growth			4	2		50		50*	50
	TOTAL 16 00 10 21 300 150 600 150 750									750		

Value Added Course (ANY One)

Programming In C++

2

25

25



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			Format	ive Assessment
CIA: Continuous	*: Oral Examination	CIA	Weightage	Description
Internal 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	CIA 2	2070	Witten Exam
P: Practical	VAC: Value Added Courses	CIA 3	10%	Seminar Presentation
ESE: End Semester	AEC : AbilityEnhancement curses			Behavioural Attitude + George 1 Discipline (59)
Exam	CEP/FP:Communityencougement	CIA 4	10%	General Discipline (5%) • Theory + practical
	project/Field project			attendance 5%)
	VSEC: Vocational and Skill Enhancement			
	Course	TOTAL	50%	
	MDM: Multidisciplinary minor course			



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B. Tech Computer Sciences and Engineering(Specialization in Cyber Security and Forensic) Semester – IV

				Teac (H		Sch Week		E	Examinat		eme	
Sr. No.	Course Type	Course Code	Course Name	L	Т	P	C	Forma Assess CIA	ment	Summ Assess ESE	ment	Total Marks
	Туре	Coue			1	1		Theory	Lab	Theory	Lab	
1	PCC	NYCF401	Object Oriented Programming using Java	3			3	50		100		100
2	PCC	NYCF402	Database Management System	3			3	50		100		100
3	PCC	NYCF403	Computer Organization and Architecture	3			3	50		100		100
4	PCC	NYCF411	Database Management System Laboratory			2	1		50		50*	50
5	OE	NYCFO02	Open Elective-II	3			3	50		100		100
6	VSEC	NYCF412	Object Oriented Programming Laboratory			4	2		50		50*	50
7	MDM		Minor course 2 #	2			2	50		100		100
8	AEC	NHSA12	Strategic Communication for professionals			4	2		50		50*	50
9	EEMC (HSSM)	NYCF413	Personal Finance Management			4	2		50		50*	50
10	VEC (HSSM)	NYCF414	Innovation and Entrepreneurship			4	2		50		50*	50
		TO	TAL	14	00	18	23	250	250	500	250	750
			Value Ad	ded C	ours	e						
11	VAC (VSEC)		MySql			2			25			25



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			Format	ive Assessment
CIA: Continuous	*: Oral Examination	CIA	Weightage	Description
Internal 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	CIA 2	2070	Written Exam
P: Practical	VAC: Value Added Courses	CIA 3	10%	Seminar Presentation
ESE: End Semester	AEC :AbilityEnhancement curses			Behavioural Attitude + Consul Disciplina (50())
Exam	CEP/FP:Communityencougement	CIA 4	10%	General Discipline (5%) • Theory + practical
	project/Field project			attendance 5%)
	VSEC: Vocational and Skill Enhancement			
	Course	TOTAL	50%	
	MDM: Multidisciplinary minor course			

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 Artificial Intelligence and Machine Learning) 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 Artificial Intelligence and Machine Learning) 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)											
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 Sciences and Engineering(Specialization in Cyber Security and Forensic) Semester – V

					Sch	hing eme Wee		Examination Scheme Formative Summative Assessment Assessment			ne	Total Marks
Sr. No.	Course Type	Course Code	Course Name	L	Т				ment		ment	
								Theory	Lab	Theory	Lab	
1	PCC	NYCF501	Theory of Computation	3			3	50		100		100
2	PCC	NYCF502	Operating System	3			3	50	1	100		100
3	PCC	NYCF503	Data Communication	3			3	50		100		100
4	PCC	NYCF511	Operating System Laboratory			2	1		50		50*	50
5	PEC	NYCFE	Program Elective-I	3			3	50		100	-	100
6	OE	NYCFO03	Open Elective III	2			2	50		100		100
7	MDM		Minor course 3 #	3			3	50		100		100
8	AEC	NHSA13	Essential Aptitude Skills			4	2		50		50*	50
		TOT	AL	17	00	06	20	300	100	600	100	700
			Value Added (Cour	se (V	/AC)					
9	VAC		Network Programming			2			50			50



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			Format	ive Assessment
CIA: Continuous	*: Oral Examination	CIA	Weightage	Description
Internal 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	CIA 2	2070	Witten Exam
P: Practical	VAC: Value Added Courses	CIA 3	10%	Seminar Presentation
ESE: End Semester	AEC : AbilityEnhancement curses			Behavioural Attitude + George 1 Discipline (59)
Exam	CEP/FP:Communityencougement	CIA 4	10%	General Discipline (5%) • Theory + practical
	project/Field project			attendance 5%)
	VSEC: Vocational and Skill Enhancement			
	Course	TOTAL	50%	
	MDM: Multidisciplinary minor course			



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B. Tech Computer Sciences and Engineering(Specialization in Cyber Security and Forensic) Semester – VI

								1				ı
				Teac (H	hing [rs./\			e Examination Scheme			ne	Total Marks
Sr. No.	Course Type	Course Code	Course Name	L	Т	P	C	Form Assess CL	ment	Summa Assessn ESI	nent	
								Theory	Lab	Theory	Lab	
1	PCC	NYCF601	Design and Analysis of Algorithm	3			3	50	-1-	100		100
2	PCC	NYCF602	Operating System	3			3	50		100		100
3	PCC	NYCF603	Embedded System & Internet of Things	3			3	50		100		100
4	PCC	NYCF611	Design and Analysis of Algorithm laboratory			2	1		50		50*	50
5	VSEC	NYCF612	Operating System Lab			4	2		50		50*	50
7	PEC	NYCFE	Program Elective-II	3			3	50		100		100
8	PEC	NYCFE	Program Elective-III	3			3	50	-	100	-	100
9	MDM		Minor Course 4#	2			2	100		100		100
10	AEC	NHSA14	Employability Skills and Career Advancement			4	2		50		50*	50
		TC	OTAL	17	00	10	22	350	150	600	150	750
			Value Ad	ded Co	urse	;						
11	EEC		Advanced Web Designing Course			2			50			50



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			Format	ive Assessment
CIA: Continuous	*: Oral Examination	CIA	Weightage	Description
Internal Assessment	PCC: Program Core course	CIA 1	10%	Home Assignment
L: Theory Lecture	PEC: Programme elective Core	CIA2	20%	Written Exam
T: Tutorial	OE:Open Elective	CIA 2	20%	written Exam
P: Practical	VAC: Value Added Courses	CIA 3	10%	Seminar Presentation
ESE: End Semester	AEC :AbilityEnhancement curses			Behavioural Attitude + G
Exam	CEP/FP:Communityencougement	CIA 4	10%	General Discipline (5%) • Theory + practical
	project/Field project			attendance 5%)
	VSEC: Vocational and Skill Enhancement			
	Course	TOTAL	50%	
	MDM: Multidisciplinary minor course			

Exit option:

• Students exiting the 3-year UG program will be awarded B.Voc. in the Computer Sciences and Engineering (Specialization in Artificial Intelligence and Machine Learning) 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 Criterion to UG Diploma) (B. Voc)											
1	EC	NYCSX04	Networking Essentials	3			3	50		100		100
2	EC	NYCSX05	Cloud Computing with Practical Applications	3			3	50		100		100
3	EC	NYCSX06	Internship (4 weeks)				2		50			50



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B. Tech Computer Sciences and Engineering(Specialization in Cyber Security and Forensic) Semester – VII

					ching (Hrs.	•		Exai	Examinatio Formative Assessment		1		
Sr. No.	Course Type	Course Code	Course Name	L	Т	P	C	Assessment Assessmen		nent			
								Theory	Lab	Theory	Lab		
1	PCC	NYCF701	Complier Design	3			3	50		100		100	
2	PCC	NYCF702	Data Science and Machine Learning	3			3	50		100		100	
3	PCC	NYCF	Program Elective-IV	2			2	50		100		100	
4	MDM		Minor course 5 #	2			2	50		100	ı	100	
5	ELC	NYCF711	Industry Internship/OJT*				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												
9	VAC		Data Science Essentials			2			25			25	

^{*45} Days Internship during summer vacation of 6th Semester



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			Format	ive Assessment
CIA: Continuous	*: Oral Examination	CIA	Weightage	Description
Internal 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	CIA 2	2070	Witten Exam
P: Practical	VAC: Value Added Courses	CIA 3	10%	Seminar Presentation
ESE: End Semester	AEC : AbilityEnhancement curses			Behavioural Attitude + George 1 Discipline (59)
Exam	CEP/FP:Communityencougement	CIA 4	10%	General Discipline (5%) • Theory + practical
	project/Field project			attendance 5%)
	VSEC: Vocational and Skill Enhancement			
	Course	TOTAL	50%	
	MDM: Multidisciplinary minor course			



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B. Tech Computer Sciences and Engineering(Specialization in Cyber Security and Forensic) Semester – VIII

					ching (Hrs./			Exa	minatio	on Schem	ie	Total Marks
Sr. No.	Course Type	Course Code	Course Name	L	Т	P	C	Forma Assessi CL	ment	Summa Assessr ESI	nent	
								Theory	Lab	Theory	Lab	
1	PCC	NYCF801	Cryptography and Security	3			3	50		100		100
2	PCC	NYCF802	High Performance Computing	3			3	50		100		100
3	PEC	NYCFE	Program Elective V	3			3	50		100		100
4	PEC	NYCFE	Program Elective VI	3			3	50	1	100		100
5	ELC	NRDP101	Research Methodology	4			4	50	-	100		100
6	ELC	NYCF811	Project			8	4		50		100*	100
7	MDM		Minor Course 6#	2			2	50		100		100
	•	TO	ΓAL	18	00	08	22	300	100	600	100	700
			Value Adde	d Co	urse				_		_	
8	VAC		Soft Computing Lab			2						

			Format	ive Assessment
CIA: Continuous	*: Oral Examination	CIA	Weightage	Description
Internal 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	Chiz	2070	Witten Dami
P: Practical	VAC: Value Added Courses	CIA 3	10%	Seminar Presentation
ESE: End Semester	AEC : AbilityEnhancement curses			Behavioural Attitude + Garage Disciplina (50/)
Exam	CEP/FP:Communityencougement	CIA 4	10%	General Discipline (5%) • Theory + practical
	project/Field project			attendance 5%)
	VSEC: Vocational and Skill Enhancement			
	Course	TOTAL	50%	
	MDM: Multidisciplinary minor course			



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Credit distribution

Semester		Total Credits as per GR	Total Credits SUN CSE-CSF
Basic Science Course		14-18	16
Engineering Science Course	BSC/ESC	16-12	12
Programme Core Course (PCC)	D.	44-56	60
Programme Elective Course (PEC)	Program Courses	20	17
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	
Entrepreneurship/ Economics / Management Course	Social Science and	04	14
Indian knowledge System (IKS)	Management (HSSM)	02	
Value Education Course (VEC)	, ,	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	175