

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.

	Assessment for Theory Course (Scaled to allotted marks)				
CIA	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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SCHOOL OF COMPUTER SCIENCE & ENGINEERING

Department of Computer Science and EngineeringMAHIRAVANI, TRIMBAK ROAD, TAL & DIST: NASHIK-422213, MAHARASHTRA,INDIA

			Format	tive 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	CIA 2	20 /0	Witten Exam
P: Practical	VAC: Value Added Courses	CIA 3	10%	Seminar Presentation
ESE: End Semester Exam	AEC : Ability Enhancement courses CEP/FP: Community engagement	CIA 4	10%	 Behavioral Attitude + General Discipline (5%) Theory + practical attendance 5%)
	project/Field project VSEC: Vocational and Skill Enhancement Course MDM: Multidisciplinary minor course	TOTAL	50%	

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Department of Computer Science and EngineeringMAHIRAVANI, TRIMBAK ROAD, TAL & DIST: NASHIK-422213, MAHARASHTRA,INDIA

Multidisciplinary Minor offered by Computer Science & Engineering **Department Minor in Artificial Intelligence & Machine Learning**

Sr.No.	Course Name	Course Code	Scheme	Credits	Semester
1	Artificial Intelligence	NYCMM01	2-0-0	2	3rd
2	Machine Learning	NYCMM02	2-0-0	2	4th
3	Natural Language Processing	NYCMM03	3-0-0	3	5th
4	Optimization Technique	NYCMM04	2-0-0	2	6th
5	Deep Learning for Computer Vision	NYCMM05	2-0-0	2	7th
6	Quantum Computing	NYCMM06	2-0-0	2	8th
TOTAL				14	

Honors Courses offered by Computer Science & Engineering Department Minor in Artificial Intelligence & Machine Learning

Sr.No.	Course Name	Course Code	Scheme	Credits	Semester
1	Supervised and Unsupervised Learning	NYCMH01	3-0-0	3	5th
2	Natural language Programming	NYCMH02	3-0-0	3	5th
3	Optimization Techniques	NYCMH03	3-0-0	3	6th
4	Soft Computing	NYCMH04	3-0-0	3	6th
5	Social Network Analysis	NYCMH05	3-0-0	3	7th
6	Game Theory	NYCMH06	3-0-0	3	8th
	TOTAL	18			

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Open Electives offered by Computer Science & Engineering Department in Artificial Intelligence & Machine Learning

Sr.N o.	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		V
6	Open Elective III	Introduction to Reverse Engineering	NYCSO06	2-0-0	2	V
	TOTAL					

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Programme Elective Courses offered by Computer Science & Engineering Department in Artificial Intelligence & Machine Learning

Sr.N o.	Programme Elective Courses#	Course Name	Course Code	Scheme	Credits	Semester
1	PEC#1	Artificial intelligence	NYCME01	3-0-0		V
2	PEC#1	Pattern Recognition	NYCME02	3-0-0	3	V
3	PEC#2	Machine Learning	NYCME03	3-0-0		VI
4	PEC#2	Web Programming	NYCME04	3-0-0	3	VI
5	PEC#3	Deep Learning	NYCME05	3-0-0		VI
6	PEC#3	Information Storage and Retrieval	NYCME06	3-0-0	3	VI
7	PEC#4	Quantum Machine Learning	NYCME07	2-0-0		VII
8	PEC#4	Cognitive Computing	NYCME08	2-0-0	3	VII
9	PEC#5	Internet of Things	NYCME09	3-0-0		VIII
10	PEC#5	Mobile Computing	NYCME10	3-0-0	3	VIII
11	PEC#6	Speech and Video Processing	NYCME11	3-0-0		VIII
12	PEC#6	Computer Vision	NYCME12	3-0-0	3	VIII
	TOTAL					

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			Semes					1				1	
			Teaching Scheme (Hrs./Week)		Ex	amina	tion Sch	eme	Total Marks				
Sr. No.	Course Type	Course Code	Course Name		Course Name		P	С	Form: Assess CI	ment	Summative Assessment ESE		
				L	Т	r		Theo ry	Lab	Theory	Lab		
1	PCC	NYCM301	Discrete Mathematics and Logic	3			3	50		100		100	
2	PCC	NYCM302	Knowledge Representation and Reasoning	3			3	50		100		100	
3	PCC	NYCM303	Data Structures	3			3	50		100		100	
4	PCC	NYCM311	Data Structures Laboratory			2	1		50		50*	50	
5	MDM		Minor Course #1 (Introduction to Embedded System)	2			2	50		100		100	
6	OE		Open Elective-I	3			3	50		100		100	
7	AEC (HSSM)	NHSA11	Key Competencies for Career Growth			4	2		50		50*	50	
8	VEC	NLWV01	The Constitution & Human Rights	2			2	50		100		100	
9	СЕР	NYCM312	Community Engineering Project	1		4	2		50		50*	50	
		TOT	TAL	16	00	10	21	300	150	600	150	750	
			Value Ad	ded (Cours	se	•	•		•			
10	VAC		Programming in C++			2			25			25	

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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	CIA 2	2070	Witten Exam
P: Practical	P: Practical VAC: Value Added Courses		10%	Seminar Presentation
ESE: End Semester Exam	AEC : Ability Enhancement courses CEP/FP: Community engagement	CIA 4	10%	 Behavioral Attitude + General Discipline (5%) Theory + practical attendance 5%)
	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 Artificial Intelligence & Machine Learning) Semester - IV

S				Teacl (H	hing rs./V			Examination Scheme			Total Marks	
Sr. No.	Course Type	Course Code	Course Name	L	Т	P	C	Forma Assess CIA	ment	Summative Assessment ESE		
				L	•	_		Theory	Lab	Theory	Lab	
1	PCC	NYCM401	Object Oriented Programming using Java	3			3	50		100		100
2	PCC	NYCM402	Database Management System	3		-	3	50	-	100	-	100
3	PCC	NYCM403	Computer Organization and Architecture	3			3	50		100		100
4	PCC	NYCM411	Database Management System Laboratory	1		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	NYCM412	Object Oriented Programming using Java Laboratory			4	2		50		50*	50
8	AEC (HSSM)	NHSA12	Strategic Communication for professionals			4	2		50		50*	50
_	EEMC (HSSM)	NYCM413	Personal Finance Management			4	2		50		50*	50
10	VEC (HSSM)	NYCM414	Innovation and Entrepreneurship			4	2		50		50*	50
						23	250	250	500	250	750	
	Value Added Course (Any One)											
11	VAC (VSEC)		Advanced Python Programming			2			25			25

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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	CITY	2070	Witten Exam
P: Practical	VAC: Value Added Courses	CIA 3	10%	Seminar Presentation
ESE: End Semester Exam	AEC : Ability Enhancement courses	CIA 4	10%	 Behavioral Attitude + General Discipline (5%) Theory + practical
	CEP/FP: Community engagement			attendance 5%)
	project/Field project			
	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	1		3	50		100		100
3	EC	NYCSX03	Internship (2 Weeks)		- 1		2	1	50	1	1	50

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B. Tech. Computer Science and Engineering (Specialization in Artificial Intelligence & Machine Learning) Semester - V

					Sch	hing eme Weel		Exa	minati	on Schen	ne	Total Marks
Sr. No.	Course Type	Course Code	Course Name	L	Т	P	C	Forma Assess CL	ment	Summ Assess ESE	ment	
								Theory	Lab	Theory	Lab	
1	PCC	NYCM501	Theory of Computation	3			3	50		100		100
2	PCC	NYCM502	Operating System	3			3	50		100		100
3	PCC	NYCM503	Data Communication	3			3	50		100		100
4	PCC	NYCM411	Operating System Laboratory			2	1		50		50*	50
5	PEC	NYCME_	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 (HSSM)	NHSA13	Essential Aptitude Skills			4	2		50		50*	50
	TOTAL				00	06	20	300	100	600	100	700
			Value Added	Cour	se (V	VAC)					_
9	VAC		Network Programming			2			25		I	25

Chairperson, BoS, **SOCSE**

Associate Dean Engineering **SOCSE**

Associate Dean Academics

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L: Theory Lecture	PEC : Programme elective Core	CIA 2	20%	Written Exam
T: Tutorial	OE: Open Elective	CIA 2	20%	Witten Exam
P: Practical	VAC: Value Added Courses	CIA 3	10%	Seminar Presentation
ESE: End Semester Exam	AEC : Ability Enhancement			Behavioral Attitude + Congress Discipline (5%)
	courses	CIA 4	10%	General Discipline (5%) • Theory + practical
	CEP/FP: Community engagement			attendance 5%)
	project/Field project			
	VSEC: Vocational and Skill			
	Enhancement Course	TOTAL	50%	
	MDM: Multidisciplinary			
	minor course			

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B. Tech. Computer Science and Engineering (Specialization in Artificial Intelligence & Machine Learning) Semester - VI **Teaching** Total Scheme **Examination Scheme** Marks (Hrs./Week) Sr. **Formative Summative** Course Course No. Course Name Assessment Assessment Code Type **ESE** CIA T C P L Theory Lab Theory Lab Design and Analysis of 3 1 **PCC** NYCM601 3 50 100 100 Algorithm Computer Networks NYCM602 2 3 3 **PCC** 50 100 100 NYCM603 Software Engineering 3 PCC 3 3 50 100 100 NYCM611 Design and Analysis of 2 **PCC** 50* 4 50 50 Algorithm Laboratory NYCME Program Elective-II 3 5 **PEC** 3 50 100 100 NYCME_ 6 **PEC** Program Elective-III 3 3 50 100 100 7 2 **MDM** Minor Course 4# 50 100 100 NYCM612 Computer Networks VSEC 8 4 50* 50 50 Laboratory **Employability Skills and** NHSA14 AEC 9 4 50* 50 50 (HSSM) Career Advancement **TOTAL** 17 10 22 300 150 600 150 **750 Value Added Course** Machine Learning-A 10 VAC 2 25 25

Chairperson, BoS, Associate Dean Engineering Associate Dean SOCSE SOCSE Academics

Practical Approach

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T: Tutorial		CIA 2	20%	Witten Exam
P: Practical	VAC: Value Added Courses	CIA 3	10%	Seminar Presentation
ESE: End Semester Exam	AEC : Ability Enhancement courses CEP/FP: Community engagement	CIA 4 10%		 Behavioral Attitude + General Discipline (5%) Theory + practical attendance 5%)
	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 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	NYCMX04	Networking Essentials	3			3	50		100	 100
2	EC	NYCSX05	Machine Learning with Practical Applications	3			3	50		100	 100
3	EC	NYCSX06	Internship (4 weeks)				2		50		 50

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B. Tech. Computer Science and Engineering (Specialization in Artificial Intelligence & Machine Learning) Semester - VII

					_	Sch ./We		Examination Scheme		1e	Total Marks	
Sr. No.	Course Type Code Course Name		L	Т	P	С	Formative Assessment CIA		Summative Assessment ESE			
								Theory	Lab	Theory	Lab	
1	PCC	NYCM701	Complier Design	3			3	50		100		100
2	PCC	NYCM702	Data Science and Machine Learning	3			3	50		100		100
3	PEC	NYCME_	Program Elective-IV	3			3	50		100		100
4	MDM		Minor course 5 #	2			2	50		100		100
5	ELC	NYCM711	Internship				12		100		100*	200
6	AEC (HSSM	NHSA15	Corporate Readiness and Entrepreneurial Excellence			4	2		50		50*	100
	TOTAL				00	04	25	200	150	400	150	700
	Value Added Course											
7	VAC		Data Science Essentials			2			25			25
	*45 Days Internship during summer vacation of 6 th Semester											

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L: Theory Lecture	PEC : Programme elective Core	CIA 2	20%	Written Exam			
T: Tutorial	OE: Open Elective	CIA 2	2070	willen Exam			
P: Practical	VAC: Value Added Courses	CIA 3	10%	Seminar Presentation			
ESE: End Semester Exam	AEC : Ability Enhancement courses	CIA 4	10%	• Behavioral Attitude + General Discipline (5%)			
	CEP/FP: Community engagement			• Theory + practical attendance 5%)			
	project/Field project						
	VSEC: Vocational and Skill						
	Enhancement Course	TOTAL	50%				
	MDM: Multidisciplinary						
	minor course						

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B. Tech Artificial Intelligence & Machine Learning Semester – VIII

					hing Hrs./			Examination Scheme		ne	Total Marks	
Sr. No.	Course Type	Course Code	Course Name	L	Т	P	C	Forma Assessi CL	ment	Summa Assessi ESI	nent	
								Theory	Lab	Theory	Lab	
1	PCC	NYCM801	Cryptography and Security	3	-		3	50	I	100		100
2	PCC	NYCM802	High Performance Computing	3			3	50		100		100
3	PEC	NYCME_	Program Elective V	3			3	50		100		100
4	PEC	NYCME_	Program Elective VI	3	-		3	50	-	100		100
5	RM	NRDP101	Research Methodology	4			4	50		100		100
6	ELC	NYCM811	Project			8	4		50		100*	150
7	MDM		Minor Course 6#	3			3	50		100		100
	TOTAL				00	08	23	300	100	600	100	800
			Value Adde	d Co	urse							
8	VAC		Cryptography-Practical Approach			2			25			25

			Forma	tive Assessment
CIA: Continuous Internal	*: Oral Examination	CIA	Weightage	Description
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L: Theory Lecture	PEC : Programme elective Core	CIA 2	20%	Written Exam
T: Tutorial	OE: Open Elective	CITTZ	2070	Witten Exam
P: Practical	VAC: Value Added Courses	CIA 3	10%	Seminar Presentation
ESE: End Semester Exam	AEC : Ability Enhancement courses	CIA 4		Behavioral Attitude + Communal Discipling (50%)
	CEP/FP: Community engagement		10%	General Discipline (5%) • Theory + practical
	project/Field project			attendance 5%)
	VSEC: Vocational and Skill			
	Enhancement Course			
	MDM: Multidisciplinary minor	TOTAL	50%	
	course			

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Credit distribution

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

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