

Nagindas Khandwala College (Autonomous)

Affiliated to University of Mumbai



**MKES's Nagindas Khandwala College (Autonomous),
Gate No 5, Bhavishya Bharat Campus, S. V. Road, Malad (West)
Mumbai-400 064**

Programme Code: USIT

Bachelor of Science in Information Technology (B.Sc.IT)

Three Year Integrated Programme -

Six Semesters

Course Structure


PRINCIPAL

**NAGINDAS KHANDWALA COLLEGE OF COMMERCE
ARTS & MANAGEMENT STUDIES AND SHANTABEN
NAGINDAS KHANDWALA COLLEGE OF SCIENCE
(AUTONOMOUS)
MALAD (W), MUMBAI - 400 064**



BSC IT

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Bachelor of Science in Information Technology (B.Sc. IT) Programme
Under Choice Based Credit, Grading and Semester System
Curriculum Framework
(Implemented during Academic year 2020-21)

FIRST YEAR

Sr. No.	Semester I	Subject code	Credits	Sr. No.	Semester II	Subject code	Credits
	<i>Ability Enhancement Compulsory Course (AECC)</i>				<i>Ability Enhancement Practical Compulsory Course (AECC)</i>		
1.	AECC-1 Communication Skills	1916UISCS	2	1	AECC-1 IT platforms, Tools and Practices	1926UISTP	2
	<i>Skill Enhancement Compulsory Course (SEC)</i>				<i>Skill Enhancement Compulsory Course (SEC)</i>		
2.	SEC-1 Web Programming I	1914UISWP	3	2.	SEC-2 Web Programming II	1924UISWP	3
	<i>Core Course (CC)</i>				<i>Core Course (CC)</i>		
3.	CC-1 Introduction to Programming	1911UISIP	3	3.	CC-4 Programming and Application Development in Python	1921UISPP	3
4.	CC-2 Fundamentals of Computers and Electronics	1912UISFC	3	4	CC-5 Object Oriented Programming	1922UISOO	3

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5.	CC-3 Operating Systems	1913UISOS	3	5	CC-6 Database Management Systems I	1923UISDS	3
	<i>Discipline Specific Compulsory Course (DSC)</i>				<i>Discipline Specific Compulsory Course (DSC)</i>		
6.	DSC-1 Discrete Mathematics- I	1915UISDM	2	6.	DSC-2 Discrete Mathematics II	1925UISDM	2
	<i>Skill Enhancement Practical Compulsory Course (SEC)</i>				<i>Skill Enhancement Practical Compulsory Course (SEC)</i>		
7.	SEC-1 Web Programming I	1914UISPR	1	7.	SEC-2 Web Programming II	1924UISPR	1
	<i>Core Course Practical (CC)</i>				<i>Core Course Practical (CC)</i>		
8.	CC-1 Introduction to Programming	1911UISPR	1	8.	CC-4 Programming and Application Development in Python	1921UISPR	1
9.	CC-2 Fundamentals of Computers and Electronics	1912UISPR	1	9.	CC-5 Object Oriented Programming	1922UISPR	1
10.	CC-3 Operating Systems	1913UISPR	1	10.	CC-6 Database Management Systems I	1923UISPR	1
	TOTAL		20		TOTAL		20



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SECOND YEAR

(Implemented during Academic year 2020-21)

Sr. No.	Semester III	Subject code	Credits	Sr. No.	Semester IV	Subject code	Credits
	Skill Enhancement Compulsory Course (SEC)				Skill Enhancement Compulsory Course (SEC)		
1	SEC-3 Core Java	2031UISCJ	2	1	SEC-3 Design Patterns	2041UISDP	2
	Core Course (CC)				Core Course (CC)		
2	CC-7 Data Structures	2032UISDS	2	2	CC-7 Design and Analysis of Algorithms	2042UISDAA	2
3	CC-8 Computer Networks	2033UISCN	2	3	CC-8 System Programming	2043UISSP	2
4	CC-9 Database Management Systems- II	2034UISDMS	2	4	CC-9 Software Engineering	2044UISSE	2
	Discipline Specific Compulsory Course (DSC)				Discipline Specific Compulsory Course (DSC)		
5	Descriptive Statistics	20310UISDS	2	5	Probability Theory	2045UISPT	2
	Discipline Specific Elective (DSE)				Discipline Specific Elective (DSE)		
	Discipline Specific Elective (DSE-1) (Any ONE of group A)				Discipline Specific Elective (DSE-1) (Any ONE of group A)		


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6	Advanced Web Programming - I	2035UISAWP	2	6	Advanced Web Programming - II	2046UISAW	2
7	Hybrid Mobile Application Development I	2037UISMD	2	7	Hybrid Mobile Application Development II	2046UISMD	2
				8	Advanced Java	2046UISAJ	2
	Discipline Specific Elective (DSE-1) (Any ONE of group B)				Discipline Specific Elective (DSE-1) (Any ONE of group B)		
8	Computer Graphics and Animation	2036UISCG	2	9	Multimedia Systems	2047UISMM	2
9	Embedded Systems	2038UISES	2	10	Internet of Things	2047UISIT	2
10	Principles of Management	2039UISPM	2	11	Principles of Marketing	2047UISPM	2

	Skill Enhancement Practical Compulsory Course (SEC)				Skill Enhancement Practical Compulsory Course (SEC)		
11	SEC-3 Core Java	2031UISPR	1	12	SEC-3 Design Patterns	2041UISPR	1
	Core Course Practical (CC)				Core Course Practical (CC)		
12	CC-7 Data Structures	2032UISPR	1	13	CC-7 Design and Analysis of Algorithms	2042UISPR	1
13	CC-8 Computer Networks	2033UISPR	1	14	CC-8 System Programming	2043UISPR	1
14	CC-9 Database Management Systems- II	2034UISPR	1	15	CC-9 Software Engineering	2044UISPR	1
	Discipline Specific Elective				Discipline Specific Elective		


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	<i>Practical (DSE)</i>				<i>Practical (DSE)</i>		
	Discipline Specific Elective Practical (DSE-1) (Any <i>ONE</i> of group A)				Discipline Specific Elective Practical (DSE-1) (Any <i>ONE</i> of group A)		
15	Advanced Web Programming - I	2035UISPR	1	16	Advanced Web Programming - II	2046UISPR	1
16	Hybrid Mobile Application Development I	2037UISPR	1	17	Hybrid Mobile Application Development II	2046UISPR	1
				18	Advanced Java	2046UISPR	1
	Discipline Specific Elective Practical (DSE-1) (Any <i>ONE</i> of group A)				Discipline Specific Elective Practical (DSE-1) (Any <i>ONE</i> of group A)		
17	Computer Graphics and Animation	2036UISPR	1	19	Multimedia	2047UISPR	1
18	Embedded Systems	2038UISPR	1	20	Internet of Things	2047UISPR	1
19	Principles of Management	2039UISPR	1	21	Principles of Marketing	2047UISPR	1
TOTAL			20	TOTAL			20

THIRD YEAR

(Implemented during Academic year 2020-2021)


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Sr No	Semester V	Subject code	Credits	Sr. No.	Semester VI	Subject code	Credits
	Skill Enhancement Compulsory Course (SEC)				Skill Enhancement Compulsory Course (SEC)		
1	SEC-5 Software Project Management	1851UITPM	3	1	SEC-8 Software Quality Assurance	1861UITSQ	3
2	SEC-6 Internet of Things	1852UITIT	3	2	SEC-9 Security in Computing	1862UITSC	3
3	SEC-7 Advanced Web Programming	1853UITWP	3	3	SEC-10 Business Intelligence	1863UITBI	3
	Discipline Specific Elective (DSE)				Discipline Specific Elective (DSE)		
4	Discipline Specific Elective (DSE-1) (Any one of group A)			4	Discipline Specific Elective (DSE-3) (Any one of group A)		
	a. Artificial Intelligence	1854UITAI	3		a. Principles of Geographic Information Systems	1864UITGI	3
	b. Linux System Administration	1855UITLA	3		b. Enterprise Networking	1865UITEN	3
5	Discipline Specific Elective (DSE-2) (Any one of group B)			5	Discipline Specific Elective (DSE-4) (Any one of group B)		
	a. Enterprise Java	1856UITEJ	3		a. IT service Management	1866UITIS	3
	b. Next Generation Technologies	1857UITNG	3		b. Cyber Law	1867UITCL	3
	Skill Enhancement Practical				Skill Enhancement Practical		


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	<i>Compulsory Course (SEC)</i>				<i>Compulsory Course (SEC)</i>		
6	SEC-5 Project Dissertation	1851UITPR	1	6	SEC-8 Project Implementation	1861UITPR	1
7	SEC-6 Internet of Things	1852UITPR	1	7	SEC-9 Security in Computing	1862UITPR	1
8	SEC-7 Advanced Web Programming	1853UITPR	1	8	SEC-10 Business Intelligence	1863UITPR	1
	<i>Discipline Specific Elective Practical (DSE)</i>				<i>Discipline Specific Elective Practical (DSE)</i>		
	Discipline Specific Elective Practical (DSE-1) (Any one of group A)				Discipline Specific Elective Practical (DSE-3) (Any one of group A)		
9	a. Artificial Intelligence	1854UITPR	1	9	a. Principles of Geographic Information Systems	1864UITPR	1
10	b. Linux System Administration	1855UITPR	1	10	b. Enterprise Networking	1865UITPR	1
	Discipline Specific Elective Practical (DSE-2) (Any one of group B)				Discipline Specific Elective Practical (DSE-4)		
11	a. Enterprise Java	1856UITPR	1	11	a. Advanced Mobile Programming	1866UITPR	1
12	b. Next Generation Technologies	1857UITPR	1				
	TOTAL		20		TOTAL		20



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