

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

"ज्ञानतीर्थ" परिसर, विष्णुपूरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

"Dnyanteerth", Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)
Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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> संलग्नित महाविद्यालयांतील विज्ञान व तंत्रज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९—२० पासून लागू करण्याबाबत.

प रिपत्रक

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ०८ जून २०१९ रोजी संपन्न झालेल्या ४४व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.११/४४—२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलिग्नत महाविद्यालयांतील विज्ञान व तंत्रज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९—२० पासून लागू करण्यात येत आहेत.

- 1. Agricultural Microbiology
- 2. Agrochemicals & Fertilizers
- 3. Analytical Chemistry
- 4. B.C.A.
- 5. B.Voc. (Food Processing, Preservation and Storage)
- 6. B.Voc. (Web Printing Technology)
- 7. Biochemistry
- 8. Bioinformatics
- 9. Biophysics
- 10. Biotechnology (Vocational)
- 11. Biotechonology
- 12. Botany
- 13. Chemistry
- 14. Computer Application (Optional)
- 15. Computer Science (Optional)
- 16. Computer Science
- 17. Dairy Science

- 18. Dyes and Drugs
- 19. Electronics
- 20. Environmental Science
- 21. Fishery Science
- 22. Food Science
- 23. Geology
- 24. Horticulture
- 25. Industrial Chemistry
- 26. Information Technology (Optional)
- 27. Mathematics
- 28. Microbiology
- 29. Network Technology
- 30. Physics
- 31. Software Engineering
- 32. Statistics
- 33. Zoology

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या **www.srtmun.ac.in** या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

'ज्ञानतीर्थ' परिसर,

विष्णुपुरी, नांदेड - ४३१ ६०६.

जा.क.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/ २०१९—२०/**२९२**

दिनांक : ०३.०७.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तृत विद्यापीठ.
- ४) साहाय्यक कुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) उपकुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तृत विद्यापीठ.

स्वाक्षरित/— स्वाक्षरित

शैक्षणिक (१-अभ्यासमंडळ) विभाग

Swami Ramanand Teerth Marathwada University, Nanded (NAAC Re-accredited with 'A' Grade)



Syllabus of

B.Sc. Network Technology (3 years) (Revised CBCS pattern)

Introduced from Academic Year 2019-20

B.Sc. Network Technology

B.Sc. Network Technology (3years) program / degree is a specialized program in computer network. It builds the student on studies in applied use of networks and to become competent in the current race and development of new networking era. The duration of the study is of six semesters, which is normally completed in three years.

CBCS pattern

<u>The B.Sc. Network Technology</u> program as per CBCS (Choice based credit system) pattern, in which choices are given to the students under open electives and subject electives. The students can choose open electives from the wide range of options to them.

Eligibility and Fees

The eligibility of a candidate to take admission to **B.Sc. Network Technology** program is as per the eligibility criteria fixed by the University. More details on admission procedure and fee structure can be seen from the prospectus of the college / institution as well as on website of the University.

Credit Pattern

Every course has corresponding grades marked in the syllabus structure. There are 24 credits per semester. A total of 144 credits are essential to complete this program successfully. The Grading pattern to evaluate the performance of a student is as per the University rules.

Every semester has a combination of Theory (core or elective) courses and Lab courses. Each theory course has 04 credits which are split as 03 external credits and 01 internal credit. The university shall conduct the end semester examination for 03 external credits. For theory internal credit, student has to appear for 01 class test (15 marks) and 01 assignment (10 marks). Every lab course has 02 credits which are split as 01 external credit and 01 internal credit. For lab internal credit, the student has to submit Laboratory Book (05 marks) and remaining 20 marks are for the Lab activities carried out by the student throughout the semester. For lab external credit, 20 marks are reserved for the examinational experiment and 05 marks are for the oral / viva examinations.

The open elective has 04 credits which are purely internal. If students are opting for MOOCs as open elective, then, there must be a Faculty designed as MOOCs course coordinator who shall supervise learning through MOOCS. This is intentionally needed as the MOOCs course coordinator shall verify the MOOC details including its duration, staring date, ending date, syllabus contents, mode of conduction, infrastructure feasibility, and financial feasibility during start of each semester. This is precautionary as the offering of the MOOCs through online platforms are time specific and there must be proper synchronization of semester duration with the MOOCs duration. Students must opt for either institutional / college level open elective or a course from University recognized MOOCs platforms as open electives.

The number of hours needed for completion of theory and practical courses as well as the passing rules, grading patterns, question paper pattern, number of students in practical batches, etc shall be as per the recommendations, norms, guidelines and policies of the UGC, State Government and the SRTM University currently operational. The course structure is supplemented with split up in units and minimum numbers of hours needed for completion of the course, wherever possible.

Under the CBCS pattern, students would graduate <u>B.Sc. Network Technology</u> with a minimum number of required credits which includes compulsory credits from core courses, open electives and program specific elective course. All students have to undergo lab / practical activities leading to specific credits and project development activity as a part of professional UG program.

- 1. **B.Sc.** Network Technology Degree / program would be of 144 Credits. Total credits per semester= 24
- 2. Each semester shall consist of three core courses, one elective course, one open elective course and two practical courses. Four theory courses (core+elective) = 16 Credits
- 3. Two practical / Lab courses= 4 Credits in total (02 credits each), One Open elective= 4 credit
- 4. One Credit = 25 marks, Two Credits = 50 Marks, Four Credits = 100 Marks

PEO, PO and CO Mappings

1. **Program Name**: B.Sc.(NT)

2. **Program Educational Objectives**: After completion of this program, the graduates / students would

PEO I :Technical Expertise	Implement fundamental domain knowledge of core courses for developing effective computing solutions by incorporating creativity and logical reasoning.
PEO II : Successful Career	Deliver professional services with updated technologies in Computer Networking based
	career.
PEO III :Hands on Technology	Develop leadership skills and incorporate ethics,
and Professional experience	team work with effective communication & time
	management in the profession.
PEO IV :Interdisciplinary and Life	Undergo higher studies, certifications and research
Long Learning	programs as per market needs.

3. **Program Outcome(s):** Students / graduates will be able to

PO1: Apply knowledge of mathematics, science and algorithm in solving Computer problems.

PO2: Generate solutions for various connectivity issues using LAN-MAN-WAN, etc

PO3: Design component, or processes to meet the needs within realistic constraints.

PO4: Identify, formulate, and solve problems using computational temperaments.

PO5: Comprehend professional and ethical responsibility in computing profession.

PO6: Express effective communication skills.

PO7: Recognize the need for interdisciplinary, and an ability to engage in life-long learning.

PO8: Actual hands on technology to understand it's working.

PO9: Knowledge of contemporary issues and emerging developments in computing profession.

PO10: Utilize the techniques, skills and modern tools, for actual development process

PO11: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings in actual development work

PO12: Research insights and conduct research in computing environment.

4. **Course Outcome(s):** Every individual course under this program has course objectives and course outcomes (CO). The course objectives rationally match with program educational objectives. The mapping of PEO, PO and CO is as illustrated below

5. Mapping of PEO& PO and CO

Program	Thrust Area	Program	Course Outcome
Educational		Outcome	
Objectives			
PEO I	Technical Expertise	PO1,PO2,PO3,PO6	All core courses
PEO II	Successful Career	PO4,PO5,PO11,	All discipline
			specific electives
			courses
PEO III	Hands on Technology and Professional	PO8,PO10	All Lab courses
	experience		
PEO IV	Interdisciplinary and Life Long Learning	PO7,PO9,PO12	All open electives
			and discipline
			specific electives

Swami Ramanand Teerth Marathwada University, Nanded CBCS Revised Syllabus w.e.f AY: 2019-2020 Program: B.Sc. Network Technology

		Commo			Credits *
Year	Semester	Course category	Course Code	Course Title	*(split up will be
					given separately)
First	First	Core Course	BNT-101	Basics of Computer System and	04
		~ ~		Hardware	
		Core Course	BNT-102	Programming in C	04
		Core Course	BNT-103	Basics of Computer Network	04
				w Elective courses	
		Elective Subject	BNT-104 A BNT-104 B	Introduction to TCP/IP Cisco Certified Entry	04
		Subject	DIVI-104 D	Networking Technician	04
				(CCENT)	
		Chose any on	e Open Elective		
		Open Open	BNT-105 A	University recognized MOOC	
		Elective		(NPTEL / SWAYAM / others)	04
				OR Intra / Inter Departmental	
				courses OR	
			BNT-105 B	Applied English OR Business	
				Communication	
		Lab / Practical	BNT-106	C Programming	02
		Tractical	BNT-107	Based on Elective course	02
		1	1		24
Total	Cocond	Core Course	BNT-201	Operating System Concepts	04
First	Second			Operating System Concepts	
		Core Course	BNT-202	Web Technology	04
		Core Course	BNT-203	Fundamentals of Linux	04
		Chose any on	e from the belo	w Elective courses	
		Elective	BNT-204A	Office Automation	04
		Subject	BNT-204B	Network Operating System's	
				Administration (NOSA)	
		Chose any on	e Open Elective	courses	
		Open	BNT-205A	University recognized MOOC	04
		Elective		(NPTEL / SWAYAM / others)	
				OR Intra / Inter Departmental	
				courses OR	
			BNT-205B	Functional English OR	
		T als /	DATE 207	Corporate English	00
		Lab /	BNT-206	Linux OS and Web Technology	02 02
		Practical	BNT-207	Based on Elective course	24
Total					44
	enhancemer	nt if any in all o	semesters online	e course with internal credits is	
mandato		it, ii airy, iii air s	omicouro, omini	course with internal credits is	
	- J				<u> </u>

Code:	First semester	Basics of Computer System and Hardware	Credits: 04
BNT-101	That semester	Dasies of Computer System and Hardware	Cicuits. 04
Course Ob	piectives:		
	dy of motherboard con	mponents.	
	sics knowledge of com		
	anaging Hardware Dev		
4. Stu	idy of Computer Langi	uages	
Course Ou			
		, troubleshoot and manage components of computer s	systems.
	ply basic knowledge o		
		ntain Computer System.	
4. Be	st Practices for Compu	iter assembling.	
Unit-1:	Introduction		
		Evolution of computer, generations of Computer, C	lassification of
	Basic computer organ		lassification of
compaters,	Busic computer organ	inzution.	
Unit-2:	Hardware Compon	ent on Motherboard	
		s, Types of HDD, Types of RAM, Types	of Chipsets,
		DE and SATA cables, Other parts on motherboard.	1
•	• •	•	
Unit-3:	Input Output Devi		
		devices, Data scanning devices, Digitizer, Electrons, Plotters, Screen image projector.	ic card reader
Unit-4:	Processor & Memo	nrv	
		control unit, Arithmetic logic unit, Instruction s	ets. Registers.
Processor		ocessors, The main memory, Storage evaluation	
	<u> </u>		
Unit-5:	Secondary Storage	o Devices	
		Devices, Magnetic tape, Basic principles of opera	ation Types of
		& disadvantages of magnetic tapes, Uses of m	
Magnetic of		a disadvantages of magnetic tapes, eses of m	agnetic tapes,
υ			
Unit-6:	Computer Langua	ges	
Machine I	Language, Advantage	es & Limitations of Machine Language, Assem	bly Language
		nitations of Assembly Language, Level Language & limitations of high level language.	age Compiler,
Reference	Books		1
1.		nputer –By Pradeep K.Sinha and Priti Sinha	
2.		nputer System-Low Price Edition.	
3.		ntal –By Rajaraman PHI publication	
<u>_</u>	T T T T T T T T T T T T T T T T T T T	7J k	

Code:	First semester	Programming in C	Credits: 04
BNT-102	riist semester	Programming in C	Cleuits. 04
Course Ob	iectives:	<u> </u>	
1. It is dev	s general purpose and velop OS and MAC o	procedure oriented programming language. In which perating system, application software and programmare also used to build students logic for programming	ning languages.
Course Ou	itcome:		
		rogramming languages, structure of c program.	
		rd for making program.	
		ng operators and control statement.	
	describe an array.	1	
5. Stu	ident are able to develo	op application software.	
Unit-1:	Introduction to Pro	gramming in C	
History, A Interpreters		gorithms, Flowcharts, Structure of a C program,	Compilers and
TI '4 A	C.T. I		
Unit-2:	C Tokens	Data types, Operators, Formatted I/O Statement, O	Cata() Puta()
		Statement, Printf(), scanf()	Jeis(), Fuis(),
Unit-3:		tatement & Looping Statement	
		Nested if –else Statement, Switch Statement, For Loo Break, goto and Continue	p, While Loop,
Unit-4:	Array and Structu		
	rray declaration, initrays to functions	tialization, One dimensional Array, Two dimen	nsional Array,
Unit-5:	Function in C		=
		tion?, User defined functions, Declaration, Definition, What is String?, Standard String library func	
Unit-6:	Structures and Uni		
		ructures, Accessing structure members (dot Oper e, Types of File, Operation on File, Random Acce	
Reference			
1.		ce – Herbert Schildt (Thomson learning publications)	1
2.		language – Kernighan and Ritchie	
3.		ning approach using C – Forouzan and Gilberg,	
4.	Pointer in 'C' Kanetk	car Yashavant P. (BPB Publication)	

Code:	First semester	Davies of Commuter Naturally	Credits: 04
BNT-103	First semester	Basics of Computer Network	Credits: 04
Course Ob	iectives:	<u>l</u>	
	idy of Network Topolo	ogv.	
	-	pts and functions of modern network devices.	
	understand various tra		
4. Stu	udy of multiplexing tec	chniques.	
Course Ou			
		re, troubleshoot and manage components of computer	systems.
	oply basic knowledge o stall, manage, and mair		
	st Practices to design r		
т. БС	st I factices to design i	ictwork setup.	
Unit-1:	Introduction		
Uses of co	mputer Networks, Net	twork Hardware- LAN, MAN, WAN, Wireless Netv	works, Network
Software-P	Protocol Hierarchy		
Unit-2:	LAN Hardware		
		sted Pair Cable, Coaxial Cable, Fiber optic c	
		Tree and other Topologies, Networking Device	s – Repeaters,
Bridges, R	Routers, Gateways, Hi	ub and Switch.	
	T		Т
Unit-3:	Multiploving Cwit	ahina	
	Multiplexing, Swit	and Frequency division, Switching, Circuit Sw	itching Packet
	Message Switching	and frequency division, Switching, Cheuit Sw.	itelling, Tacket
5 reviiing,	integouge of mitering		
Unit-4:	Network Standard	s and Network protocols	_1
OSI refere		reference model, IP protocol, SMTP, PPP, FTP,	HTTP, SNMP.
IP-address	ses, Concept of DNS.		
	-		<u> </u>
Unit-5:	Internet		
		ntranet, Internet Service Provider, E-mail-Arc	chitecture and
Services,	w w w -Client side an	d Server side, URL, Messenger, Search Engine.	
	1		T
Unit-6:	LAN Software		
		ver, Database Server, Print Server, DHCP Server	· DNS Server
	Peer Networks	er, Database Server, Trint Server, Direct Server	, DING SCIVEI,
Reference	Books		_1
1.	Gerd E. Keiser", Loc	al Area Networks", Tata McGraw Hill Edition, New	Delhi.
2.		um, "Computer Networks", (Third Edition), Prentice	
	Dut I td Mary Dalhi		

Pvt. Ltd, New Delhi.

<u>r</u>			
Code: BNT-	First semester	Introduction to TCP/IP	Credits: 04
104 A			
Elective			
Course Objecti			
	f Internet Services		
		nnection oriented and connectionless network operate	.
	anding networking Network technol		
4. Study 0	i network technol	logics.	
Course Outcon	1e:		
		, troubleshoot and manage components of Network.	
		f TCP/IP protocols.	
		tain for Ethernet technology	
	-	figuration Settings	
Unit-1:	Introduction		
		ng, The TCP/IP Internet, Internet services, History ar	•
		ure Board, Application level Interconnection, pro	perties of the
Internet, Netwo	rk level Interconn	ection, Internet Architecture.	
Unit-2:		erlying Network Technologies	
		ented & connectionless Services, WAN, LA	
Technology- 10	Base 5,10 Base	2, 10 Base T, Fiber Distributed Data Interconnect	tion (FDDI).
T1 *4 0	T (1 D (•	
Unit-3:	Internet Proto		4 - £ I I 1' - 1-1 -
		s, Three Primary classes of IP- addresses, The concep	
•	ectioniess Delive	ery system, The purpose of the Internet Protocol	, The Internet
Datagram			
Unit-4:	Reliable Stream	n Transport Service (TCP)	
		tream delivery, Properties of the reliable deli	very service.
		behind Sliding Window, The Transmission Con	
TCP Frame For	•		,
Unit-5:	Internet Proto	col - Connectionless Data gram Delivery	
		ork, Internet Architecture and Philosophy, Th	
Unreliable Del	ivery, Connection	onless Delivery system, The purpose of the Inte	rnet Protocol,
The Internet D	atagram		
I			
TT 1. 6	.	0 . 11 14	
Unit-6:		ng Concepts and Architectural Model	
Introduction,	Application leve	l Interconnection, properties of the Internet, N	Network level
Introduction,	Application leve		Network level
Introduction,	Application leve	l Interconnection, properties of the Internet, N	Network level
Introduction,	Application leven, Internet Archit	l Interconnection, properties of the Internet, N	Network level

Internetworking with TCPIIP, PriDc, T, les, Protocols & Architecture - Douglas E.

Comer

1.

Code: BNT-	Second semester	Cisco Certified Entry Networking Technician	Credits: 04
104 B		(CCENT)	
Elective			
Course Object	etives:		
 Under 	stand different type	es of networks, various topologies and application of i	networks.
2. Under	stand types of addre	esses, data communication	
3. Under	stand the concept o	f networking models, protocols, functionality of each	layer.
Course Outco	me :		
1. Learn	basic networking h	ardware and tools.	
	ce to design peer to		
	ce to design Client		
Unit-1:	Introduction		
Network Esse	ntials , Network I	Definitions , Network Topologies, Network Category	ories, The OSI
		d Advantages, The Layers, Network Components,	
Units	,		
Unit-2:	Ethernet Fundan	nentals	
		racteristics, Frame Types and Addressing, Media	Access. Data
	-	to Peer Network, Client Server Model.	Treeess, Data
110 11, 2010111		to 1001 1100 moning change son (01 1120 don)	
Unit-3:	Switching		
		Features, Switch Initialization Functions, Duplex and	Speed Switch
		rations, Switch Installation and Connections, Loop	
VLANs	n Design Conside	rations, Switch instantation and Connections, Loop	onig und off,
V Ez II (5			
Unit-4:	Routing Essenti	als and IP Addressing	
	lamentals Routin	ng Logic and Data Flow, Routed and Routing F	Protocols An
Introduction	to IP Addressing	, IP Address Construction, IP Address Classes	IP Address
Technologies	to if Mudicising	, ii Mudiess Constitution, ii Mudiess Classes	, II Madicis
recimologies			
Unit-5:	Branch design a	and WAN	
	Branch design a	n with IPsec, Connection with DSL, Connection	n with VDN
	ting protocol	Multicast solution, version of IGMP, Implement	ing muiticast,
With Cast 10u	ing protocor		
		and Daviese	
Unit-6:	Network Media)i NIC
Unit-6: Network Med	Network Media lia, Media Termino	ology, Copper Cabling, Fiber Cabling, Network I	
Unit-6: Network Med	Network Media lia, Media Termino		
Unit-6: Network Med Transceivers,	Network Media lia, Media Termino Repeaters, and Hu	ology, Copper Cabling, Fiber Cabling, Network I	
Unit-6: Network Med	Network Media lia, Media Termino Repeaters, and Hu oks	ology, Copper Cabling, Fiber Cabling, Network I	

Code:	First semester	Open Elective	Credits: 04	
BNT-105 A				
University recognized MOOC (NPTEL / SWAYAM / others) OR Intra / Inter Departmental courses				

Code: BNT- 105 B	First semester	Applied English	Credits: 04
	otivos •		
 To he To de To he 	tke a comprehensive lp Students develop welop the writing sk lp the students to ur	e use of English in day-to-day life. the ability to learn and contribute critically. tills of the students. nderstand the basic usages of English.	
Course Outco			
 Under Clear 	stand and demonstrentrance examination	e students should be able to: rate Basic English usages for their different purposes. on and aptitude tests.	
		orts required for professional life.	
Unit-1: Morphology: I words	Morphology Free & Bound Morp	phemes, Word Formation Processes, Morphological	Analysis of
Unit-2:	Grammar in day	-to-day use:	
	·	d Word Classes, Phrase: Types and functions of the	ne phrases
Unit-3:	Auxiliary Verbs	<u> </u>	
		condary Auxiliary, Usages and Functions of modal au	ıxiliaries,
Unit-4:	Transformation	of Contonacs	
		ch: Direct & Indirect	
voice. Activ	assive, speed	cii. Direct & maneet	
Unit-5:	Error Detection		1
		rs and Demonstratives, Subject – Verb Agreemen	t
		, ,	
Unit-6:	Tenses and their		
Simple Prese	nt, Simple Past, Si	mple Future	
Reference Bo			
1.	•	Grammar-L. S. Deshpande (creative Publication)	
2.		sh Grammar- A. J. Thomson. (Oxford University)	
3.	Macmillan Found Ltd)	ation English R. K. Dwivedi & a. Kumar (Mamm	alian India
4.	Writing English for	or You- G. Radhakrishna Pillai (Emerland Publication	on)
5.		ish Grammar & Composition - Wren & Martin (S. C	
6.	Radiance Commu Swan.	nication Skills- Editorial Board (SRTM University)	Orient Black
7.	English Grammer and Sons)	and Composition – Rejendra Pal and Prem Lata Sur	i (Sultan Chand

Code: BNT- 105 B	First semester	Business Communication	Credits: 04
Course Obje	otivos •		
 To m To he To de 	ake a comprehensive elp Students develop evelop the writing sk	e use of English in day-to-day life. the ability to learn and contribute critically. tills of the students. nderstand the basic usages of English.	
 Unde Clear 	ne end of this course rstand and demonstr entrance examination	e students should be able to: rate Basic English usages for their different purposes on and aptitude tests. orts required for professional life.	
Unit-1:	Basic English Gra	ammar	
Noun, Verb,	Adjective, Adverb		
TI24 3	Cantana El	4-	
Unit-2:	Sentence Elemen		
Compound, C		tructures, Clauses: - Noun, Adjective, Adverb, Senter	nce: - Simple,
Unit-3:	Morphology		
Affixes, Procuonics	esses of Word Form	ation: Major and Minor Processes, Morphological A	nalysis of
Unit-4:	Writing Skills		
	g, Email Writing, Re	esume	
Unit-5:	Oral Communica		
Group Discus	ssion, Seminars and	Conferences, Interview	T
	G1: 11 17 11		
Unit-6: Dialogue Wri	Situational Englishing, Role Playing, S		
Reference Bo	n al ra		
1.		Grammar-L. S. Deshpande (creative Publication)	
2.		h Grammar- A. J. Thomson. (Oxford University)	
3.		ation English R. K. Dwivedi & a. Kumar (Mamm	alian India I td)
4.		or You- G. Radhakrishna Pillai (Emerland Publicatio	
5.		ish Grammar & Composition - Wren & Martin (S. C.	
6.		nication Skills- Editorial Board (SRTM University)	
7.		and Composition – Rejendra Pal and Prem Lata Suri	(Sultan Chand

Code: BNT-106	First semester	C Programming	Credits: 02	
21/1 100	Practical List:	L		
1. Pro	gram to demonstrate I	Basic structure of C Programming		
2. Pro	gram to demonstrate I	Data Types		
3. Pro	ogram to demonstrate (Operators		
4. Pro	ogram to demonstrate I	O Statement		
5. Pro	5. Program to demonstrate Decision Making statement			
6. Pro	gram to demonstrate I	Looping Statement		
7. Pro	gram to demonstrate I	Break, Continue		
8. Pro	8. Program to demonstrate goto statement			
9. Pro	9. Program to demonstrate Array			
10. Pro	ogram to demonstrate t	wo dimensional array		

Code:	First semester	TCP/IP	Credits: 02		
BNT-107					
	Practical List:				
1. Stu	idy of Hardware Comp	onent on Motherboard			
2. Stu	idy of Assemble a Con	nputer System.			
3. Stu	dy of Installing Windo	ows 7 OS			
4. Stu	dy of Transmission M	edias - Twisted Pair Cable, Co-ax Cable, Fiber-optic	Cable.		
5. Ca	ble Coding (Straight O	ver, Crossover)			
6. Stu	dy of Network Device	S.			
7. Stu	idy of IP address				
8. Stu	8. Study of Internet & e-mail				
9. Cro	9. Creating e-mail account				
10. Stu	10. Study of folder sharing				

Code:	First semester	CCENT	Credits: 02	
BNT-107				
	Practical List:			
1. Stu	idy of Hardware Comp	onent on Motherboard		
2. Stu	idy of Assemble a Con	nputer System.		
3. Stu	dy of Installing Windo	ows 7 OS		
4. Stu	dy of Transmission M	edias – Twisted Pair Cable, Co-ax Cable, Fiber-optic	Cable.	
5. Ca	ble Coding (Straight O	ver, Crossover)		
6. Stu	ldy of Network Device	8.		
7. Stu	idy of IP address			
8. Stu	idy of drive map			
9. Stu	9. Study of Remote connections			
10. Stu	10. Study of Team viewer software			

BNT-201	Second semester	Operating System Concepts	Credits: 04
	icativos		
2. To 3. To	introduce basic concepunderstand the concepunderstand the schedu	pts and functions of modern operating systems. It of process and thread management. Iling of processes and threads. Emory Management techniques.	
2. To 3. To	ndamental understanding understand the various apply the cons of proc	ng of the role of Operating Systems. s memory management techniques ess/thread scheduling ot of a process and thread.	
Unit-1:	Introduction		
Organizatio	on, Computer System) User View 2) System View 3) Defining OS, Control Architecture – 1) Single Processor System 2) Copperating System Structure, An Operating System System Structure, An Operating System Structure, An Operating System Structure, An Operating System S) Multiprocessor
Unit-2:	System Structure		
Manageme Protection	nt 3) Device Mana	agement 4) Information Maintenance 5) Con	mmunication 6)
Unit-3:	Processor Manager		
Process Cor 1) Scheduli	ncept – 1) The Process	s 2) Process States 3) Process Control Block, Process 3) Context Switching, Scheduling Algorithms –	
Process Cor 1) Scheduli	ncept – 1) The Processing Queues 2) Schedule	s 2) Process States 3) Process Control Block, Process 3) Context Switching, Scheduling Algorithms –	
Process Cor 1) Scheduli	ncept – 1) The Processing Queues 2) Schedule	s 2) Process States 3) Process Control Block, Process 3) Context Switching, Scheduling Algorithms – Robin Scheduling.	
Process Cor 1) Scheduli 3) Priority S Unit-4:	ncept – 1) The Processing Queues 2) Schedule Scheduling 4) Round-F Memory Management, Contiguous Memory	s 2) Process States 3) Process Control Block, Process 3) Context Switching, Scheduling Algorithms – Robin Scheduling.	entation, Paging
Process Cor 1) Scheduli 3) Priority S Unit-4: Introductio 1) Basic M	ncept – 1) The Processing Queues 2) Scheduling Queues 2) Scheduling Scheduling 4) Round-F Memory Management, Contiguous Memory Cethod 2) Hardware S	s 2) Process States 3) Process Control Block, Process 3) Context Switching, Scheduling Algorithms – Robin Scheduling. Tent Ory Allocation 1) Memory Allocation 2) Fragme Support, Segmentation 1) Basic Method 2) Hardy	entation, Paging
Process Cor 1) Scheduli 3) Priority S Unit-4: Introductio 1) Basic M Unit-5:	ncept – 1) The Processing Queues 2) Scheduling Appendix Scheduling 4) Round-Forman Memory Managem (a) (a) Hardware Scheduling 2) Hardware Scheduling Appendix (b) Hardware Scheduling Appendix (c) Har	s 2) Process States 3) Process Control Block, Process 3) Context Switching, Scheduling Algorithms – Robin Scheduling. Tent Try Allocation 1) Memory Allocation 2) Fragme Support, Segmentation 1) Basic Method 2) Hardward Support, Segmentation 1) Basic Method 2) Hardward Support, Segmentation 1) Basic Method 2)	entation, Paging
Process Cor 1) Scheduli 3) Priority S Unit-4: Introductio 1) Basic M Unit-5:	ncept – 1) The Processing Queues 2) Scheduling Appendix Scheduling 4) Round-Forman Memory Managem (a) (a) Hardware Scheduling 2) Hardware Scheduling Appendix (b) Hardware Scheduling Appendix (c) Har	s 2) Process States 3) Process Control Block, Process 3) Context Switching, Scheduling Algorithms – Robin Scheduling. Tent Ory Allocation 1) Memory Allocation 2) Fragme Support, Segmentation 1) Basic Method 2) Hardy	entation, Paging
Process Cor 1) Scheduli 3) Priority S Unit-4: Introductio 1) Basic M Unit-5: Overview,	mcept – 1) The Processing Queues 2) Scheduling A) Round-Formation, Contiguous Memory Managem (ethod 2) Hardware Scheduling Multithreading Model	s 2) Process States 3) Process Control Block, Process 3) Context Switching, Scheduling Algorithms – Robin Scheduling. Tent Try Allocation 1) Memory Allocation 2) Fragme Support, Segmentation 1) Basic Method 2) Hardward Support, Segmentation 1) Basic Method 2) Hardward Support, Segmentation 1) Basic Method 2)	entation, Paging
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Process Cor 1) Scheduli 3) Priority S Unit-4: Introductio 1) Basic M Unit-5: Overview, Unit-6: t File cond Directory Directory,	Memory Managem on, Contiguous Memory Ethod 2) Hardware S Multithreaded Pro Multithreading Mode File System cept, Access Method Overview 2) Single Allocation Methods Free Space Managem	s 2) Process States 3) Process Control Block, Process 3) Context Switching, Scheduling Algorithms – Robin Scheduling. Tent Ory Allocation 1) Memory Allocation 2) Fragme Support, Segmentation 1) Basic Method 2) Hardwing Els, Thread Libraries – pthreads. ds- 1) Sequential 2) Direct, Directory and District Level Directory 3) Two Level Directory 4) (s- 1) Contiguous Allocation 2) Linked Allocation 2) Linked Allocation 3.	entation, Paging ware Support. Sk Structure- 1) Tree Structure tion 3) Indexed

Course Objectives: 1. To improve the skill to create the static web page. 2. To develop the ability to create the dynamic web pages. 3. To enhance the ability of Insert a graphic within a web page. 4. To improve the skills to Create, validate and publish a web page. 2. To develop the ability to Understand, analyse and design various websites. 2. Student are able to develop websites, webpages. Unit-1: Introduction of HTML Documents Historical Roots of HTML, Web page, Website, Structure of HTML documents and Basic Tags: HTML, HEAD, TITLE, BODY, Formatting Tags: Paragraph Tags, List tags, HR Tag., Headings Tags, PRE tag, DIV tag, SPAN tag., FONT Tag, ADDRESS tag, MARQUEE tag., Text-Level Elements & other different formatting tags. Unit-2: Technologies for Web Application WWW, Web browser, U.R.L. concept, Web server, Web protocols: HTTP, FTP, Telnet, Hyperlink (Anchor) Tag & it's all attributes, Creating Email Hyperlinks (using mail to anchor) Unit-3: Use of Image And Table The Role of Images on the Web, tag & it's all attributes, Using Images create a links, Tables in HTML: TABLE, TR, TH, TD tag with example, table with all Attributes Unit-4: Basic Interactivity and DHTML Frames in HTML: IRAMESET & FRAME tags & its attributes, Simple Frame Example. Forms in HTML: Introduction to forms, FORM element & it's attributes (Action, Method (GET, POST), Name), Form controls: Text Controls, Password Field, Multiline Text Input, Pull-Down Menus, Check Box, Radio Buttons, Scrolled List, Reset Button and Submit button. Unit-5: DHTML & CSS Introduction of DHTML, Ramifications of DHTML, Rollover Buttons, Introduction to Cascading Style Sheets, Embedded Styles, Inline Styles, Imported/External Styles. Unit-6: Introduction to Java Script Introduction of JAVA Script, Adding script to documents with example, Variables, Use of different variable, Input and Output statements of JAVA Script Reference Books 1. HTML The complete Reference (2nd Edition Thomas A Powel Tata McGraw Hill publication) The complete Reference (H	Code:	Second semester	Web Technology	Credits: 04
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2. To develop the ability to create the dynamic web pages. 3. To enhance the ability of Insert a graphic within a web page. 4. To improve the skills to Create, validate and publish a web page. 2. Student are able to develop websites, webpages. 2. Student are able to develop websites, webpages. 4. To improve the skills to Create, validate and publish a web page. 4. To improve the skills to Create, validate and publish a web page. 4. To improve the skills to Create, validate and publish a web page. 4. To improve the skills to create, validate and publish a web page. 4. Student are able to develop websites, webpages. 4. To improve the skills to develop websites, webpages. 4. To improve the skills to develop websites, webpages. 4. To improve the skills to develop websites, webpages. 4. To improve the skills to develop websites. 5. Student are able to develop websites, webpages. 6. Third. Introduction of HTML bocuments 6. Tags, PRE tag, DIV tag, SPAN tag., FONT Tag, ADDRESS tag, MARQUEE tag., Text-Level Elements & other different formatting tags. 6. Unit-2: Technologies for Web Application 6. Web web browser, U.R.L. concept, Web server, Web protocols: HTTP, FTP, Telnet, Hyperlink (Anchor) Tag & it's all attributes, Creating Email Hyperlinks (using mail to anchor) 6. Unit-3: Use of Image And Table 7. The Role of Images on the Web, tag & it's all attributes, Using Images create a links, Tables in HTML: -TABLE, TR, TH, TD tag with example, table with all Attributes 6. Unit-4: Basic Interactivity and DHTML 6. Frames in HTML: Introduction to Orms, FORM element & it's attributes (Action, Method (GET, POST), Name), Form controls: Text Controls, Password Field, Multiline Text Input, Pull-Down Menus, Check Box, Radio Buttons, Scrolled List, Reset Button and Submit button. 6. Unit-5: DHTML & CSS 6. Introduction of JHTML, Ramifications of DHTML, Rollover Buttons, Introduction to Cascading Style Sheets, Embedded Styles, Inline Styles, Imported/External Styles. 6. Unit-6: Introduction to Java Script 6. Introduction of JAVA Scrip		•		
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Tags, PRE tag, DIV tag, SPAN tag., FONT Tag, ADDRESS tag, MARQUEE tag., Text-Level Elements & other different formatting tags. Unit-2: Technologies for Web Application				
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Code:	First semester	Fundamentals of Linux	Credits: 04			
BNT-203						
Course Objectives :						
1. The main objective of Linux Operating system is to introduce students with basic concepts of						
	Open source code operating system.					
		file and directory structure of Linux with commands	and utilities,			
		rces with graphical and command line interface	00			
3. To	brief the student about	t software management and network interface in Linu	x OS			
Course Ou	itcome •					
		en source operating system as System software.				
		Solution of the control of the contr	ase			
	ministration for their ca					
Unit-1:	Introduction to Line					
		Linux, flavors of Linux, H/w and s/w requirement	ents of Linux,			
installation	of Linux, Linux kerne	l, Linux Boot loader				
Unit-2:	Working with Linux	or.				
		h Linux, Linux Shells, Changing user informati	ion Changing			
		editors, virtual Console, Backup strategies, Ba				
	nckup H/w media	editors, virtual consore, Buckup strategies, Bu	ekup 57 w unu			
, , ,						
Unit-3:	Linux Commands					
		o cal date rm rmdir dd du fdisk mount umount at ba				
		d usermod userdel groupadd groupdel ifconfing pin	•			
write wall	mail mesg preloginmes	g motd lp lpr lpc lpq lpstat zip unzip tar cpio gzip gu	nzıp			
Unit-4:	System Administra	ation				
		system services and runlevels, managing s/w	with RPM.			
		istrative tools, starting and stopping services man				
,			•			
Unit-5:	The X Window Sys					
Basic X C	oncepts, Using XFree	86, Starting X, Selecting and Using X Window M	anagers.			
Ilmit Ca	Managing Canviage					
Unit-6:	Managing Services	s, System Services and Run levels, Controlling Se	ervices at			
		s, System Services and Run levels, Controlling Se, Starting and Stopping Services Manually.	a vices at			
Door with	110111111111111111111111111111111111111	, starting and stopping sorvices manually.				
Reference	Books					
1.	Red Hat Linux and F	edora Unleashed – By Bill Ball and Hoyt Duff.				
			-			

Code:	Second semester	Office Automation	Credits: 04
BNT-204 A	Strong bonnester	VIII I I I I I I I I I I I I I I I I I	2.201.5. 01
Elective			
Course Objec	ctives :		
		fice Automation is to enhance and upgrade the exi	sting system by
		nd effectiveness. It will simplify the task and reduce	
means	the software impro	ves the working methods by replacing the existing	manual system
with the	he computer-based s	ystem.	
Course Outco	ome :		
		course student will be able to understand the com-	
		to simplify and automate a variety of office operation	
		ating and data presentation with various applica-	ation those are
preser	nts in Microsoft offic	e tools packages.	
Unit-1:	Introduction to M	S-Word	
		en of MS-word, uses of MS-word, Home menu- font	tah naragranh
	1 0	IS-Word, Header and Footer tool, custom dictionary.	
MS-Word.	caring options in it.	to word, freuder and rooter tool, eastern dietachary	, printing in
Unit-2:	Working with Tal	oles and Columns	
mail-merge.			
Unit-3:	Working With M	[S-Excel	
Introduction to		g with spreadsheet, formatting spreadsheet, working	with Formulas
and Functions	, Goal seek, data vali	dation, Conditional Formatting.	_
	~		
Unit-4:	Creating and For		
Introduction 1	to charts, creating c	harts, Formatting charts, Exploring charts.	
Unit-5:	Working with M	icrosoft power point	
		int, creating a new presentation based on template	e design
		slide Transition, custom Animation effects, slide	
audio and vid		situo Transition, custom Timmation offices, situo	o show, adding
Unit-6:	Introduction to N		
		erforming Queries, Generating the report, creating	g the database
in Access, cre	eating forms and ad	ding new records in MS-Access.	
Reference Bo	oks		•
1.	Microsoft Office 20	010, PBP Publication by Prof. Satish Jain, M. Geetha	a, Kratika
2	Missasst office 20	000 by Dahagas I Field	

Microsoft office 2000 by Rebecca J. Fiala

Working in Microsoft Office by TATA McGraw-Hill Edition.

1. 2. 3.

Code: BNT-	Second	Network Operating System's Administration	Credits: 04
204 B	semester	(NOSA)	
Elective		, ,	
Course Objec	ctives:		
1. Under	stand different ty	pes of networks, various topologies and application o	f networks.
2. Under	stand Network fil	le system.	
3. Under	stand the concept	of Proxy Server, Disk quotes, functionality of each I	Protocol.
Course Outco	ome:		
	basic network ma	· ·	
	ce to design serve		
3. Practi	ce to design NAT	•	
Unit-1:	Introduction		
		entation, Packets & Encapsulation, CIDR, Private	address &NA
Routing, Rout	ing tables, ICMP	Redirector, PPP Protocol, Packet forwarding.	
Unit-2:	Network File S		
		n, Congestion, Maintenance & documentation, The about NFS, Web NFS, File Locking, Disk quo	
Unit-3:	Routing Proto	cols	
Routing daem Issues	ons & routing pro	otocols, Distance vector protocol, Link State protocol	, Network desig
Unit-4:	Notaroul mono	ngement & debugging	
		anagement Protocol, RMON: Remote Monitor MI	D
Troubleshoot	ing, network wit	anagement i rotocor, Kwow. Remote womtor with	
Unit-5:	Internet Serve	r	
		ation, Internet Servers, and Caching Proxy Server	s. Firewall.
Unit-6:	Web Hosting		
		ding Architecture, Web hosting, Web hosting basi	oc UTTD
Network arch	mecture ws biiii	unig Architecture, web hosting, web hosting basi	CS. 111 J F
	ation, Virtual Int	-	.cs, 111 11

UNIX System Administration Hand book III rdBy. EviNeimeth, Garth Snyder, Scott Seebags.

Reference Books

1.

Code:	First semester	Open Elective	Credits: 04		
BNT-205 A					
University rec	University recognized MOOC (NPTEL / SWAYAM / others) OR Intra / Inter Departmental courses				

		UK	
Code:	Second semester	Functional English	Credits: 04
BNT-205	2000000	1 univional 2.ng	
В			
Course Ob	jectives:		•
1. A c	omprehensive use of E	English in day-to-day life.	
		the ability to learn and contribute critically.	
	develop the writing sk		
4. To	help the students to un	derstand the basic usages of English.	
Course Ou	tcome:		
By	the end of this course	e students should be able to:	
1. Uno	derstand and demonstr	ate Basic English usages for their different purposes	
	ar entrance examination		
3. Wr	ite various letters, repo	orts required for professional life.	
Unit-1:	Business Correspon		
E-mail Writ	ting: Invitation, job, Es	ssay Writing: Types, Structures etc., Resume, Bio-da	nta, and CV.
Unit-2:	Reading Comprehen	nsion	
		ding English, Para Jumbles	
Unit-3:	Practical Gramma	r	-
		es (Modal and Primary), Phrasal Verbs	
	•		
Unit-4:	Vocabulary		1
One-word	substitution, Idioms a	and Phrases, Synonyms and Antonyms, Spelling	Mistakes
			_
TI24 5.	C4		
Unit-5:	Sentence Formation		11 TD 4
Sentence C	Completion/ Fillers, P	aragraph Completion, Sentence Improvements, C	loze Test
TI 14 6	D / D E !!!		
Unit-6:	Day-to-Day-English		1
_		things, Narrating Pictures, Talking about place	es and recipes,
Expression	opinions		
Reference			
1.		nmar-L. S. Deshpande (creative Publication)	
2.		Grammar- A. J. Thomson. (Oxford University)	
3.		on English R. K. Dwivedi & a. Kumar (Mammali	an India Ltd)
4.		You- G. Radhakrishna Pillai (Emerland Publication)	
5.	<u> </u>	Grammar & Composition - Wren & Martin (S. Char	
6.	Radiance Communica Swan.	ation Skills- Editorial Board (SRTM University) Ori	ent Black
7.		d Composition – Rejendra Pal and Prem Lata Suri (S	Sultan Chand
	and Sons)		

Code: BNT-	Second semester	Corporate English	Credits: 04
205 B		1	
Course Object	ctives:		
		English in day-to-day life.	
		the ability to learn and contribute critically.	
	velop the writing sk		
4. To he	lp the students to un	nderstand the basic usages of English.	
G 0 1			
Course Outco		a students should be able to	
•		e students should be able to: rate Basic English usages for their different purposes.	
		on and aptitude tests.	
		orts required for professional life.	
3. Wille	various ietters, repe	orts required for professional life.	
Unit-1:	Practical usage of	f English	
		Conference, Interview	
•	<u> </u>		
Unit-2:	Business Commu		
E-mail and C	over letter writing	, Resume and CV, Report writing	
TI 4 2	E 1 41	era 1. 1	
Unit-3:	Fundamentals of	<u> </u>	
Articles, Prepo	ositions, Conjunctio	ons, Quantifiers	
Unit-4:	Basic Structures	1	
	ses, Sentence: Bas		
11110000, 0100		22 50 4004105	
Unit-5:	Phonetics		
Vowel Sound	s in English, Cons	onants in English, Phonetic Transcription of the w	ords
Unit-6:	Practical English		
Questioning:	Formal and Inform	nal ways, Introducing oneself and others, Oral Pre-	sentations
D-6 D-	_1		
Reference Bo		Common I C Deshared (another Dublication)	
1.		Grammar -L. S. Deshpande (creative Publication)	
2. 3.		h Grammar - A. J. Thomson. (Oxford University)	Maamillan
3.	India Ltd)	nunication Skills Krishna Mohan & Meera Banerji (wiaciiiiian
4.	,	ation English R. K. Dwivedi & a. Kumar (Mamma	lian India I td)
5.		or You- G. Radhakrishna Pillai (Emerland Publication	
6.))	ish Grammar & Composition - Wren & Martin (S. Ch	
7.		nication Skills- Editorial Board (SRTM University) C	
' •	Swan	Date (Dittivi Chivelety)	IIIII DIUCK

Code:	Second semester	Linux OS and Web Technology	Credits: 02
BNT-206			
	Practical List:		

- 1. Installation of Linux
- 2. Study of files and directory related commands
- 3. Study of process and resources related commands
- 4. Study of compression and decompression commands
- 5. Study of communication commands
- 6. Introducing Web Browser and Concept of URL
- 7. Write a programme to structure of HTML
- 8. Write a programme on formatting tags
- 9. Write a programme on Font, Address, Marquee Tag
- 10. Write a programme to anchor tag with all attributes

Code:	Second semester	Office Automation	Credits: 02
BNT-207			
	Practical List:		
1. Stu	dy of Microsoft Office		
2. Stu	dy of Open Office		
3. Stu	dy of Libre office		
4. Stu	dy of MS-Word		
5. Stu	dy of Mail Merge		
6. Stu	dy of MS-Excel		
7. Stu	dy of Excel formulas		
8. Stu	dy of Microsoft power	point	
9. Stu	dy of MS-Access		
10. Stu	dy of Creating query a	and creating report in MS-Access	

Code:	Second semester	Network Operating System's Administration	Credits: 02
BNT-207		(NOSA)	l
Practical List:			
1. Study of Web Browsers			
2. Study of Web Servers			
3. Study of Private and Public IP Address			
4. Study of DNS			
5. Study of Proxy Server			
6. Study of Network Management Software			
7. Study of HTTP Server			
8. Study of Web Hosting			
9. Study of Disk quotas			
10. Study of Network Troubleshooting commands			