

DON BOSCO ARTS & SCIENCE COLLEGE
(Affiliated to Kannur University)
ANGADIKADAVU, IRITTY, KANNUR



SEMESTER - 1

COURSE PLAN

B.Sc MATHEMATICS

ACADEMIC YEAR 2015 -16

SL No.	Name of Subjects	Name of the Teacher	Duty Hours per week	
I Sem B.Sc (2015 - 18)				
1.	1A01 ENG - Communicative English	Anjumary	5	
2.	1A02 ENG - Language Through Literature	Linny Mariya Sunny	4	
3.	1A07 MAL - Sahithya Ganangal	Jose K.J.	4	
4.	1A07 HIN - Kavith Aur Kahani	Rabina V	4	
5.	1B01 MAT - Differential Calculus	Neenu P Sunny	4	
6.	1C01 STA - Basic Statistics	Priyadha Jose	4	
7.	1C01 CSC - Fundamentals of Computers & Programming Languages	Mullu Joy	4	

TIME TABLE

Day	9.50am–10.45am	10.45am–11.40am	11.55am–12.50am	1.40am–2.35am	2.35am – 3.30am
1	1B01 MAT - Differential Calculus	1C01 CSC - Fundamentals of Computers & Programming Languages	1A07 MAL - Sahithya Ganangal 1A07 HIN - Kavith Aur Kahani	1A02 ENG - Language Through Literature	1A01 ENG - Communicative English
2	1B01 MAT - Differential Calculus	1A02 ENG - Language Through Literature	1A01 ENG - Communicative English	1A07 MAL - Sahithya Ganangal 1A07 HIN - Kavith Aur Kahani	1C01 STA - Basic Statistics
3	1B01 MAT - Differential Calculus	1C01 STA - Basic Statistics	1A07 MAL - Sahithya Ganangal 1A07 HIN - Kavith Aur Kahani	1C01 CSC - Fundamentals of Computers & Programming Languages	1A01 ENG - Communicative English
4	1B01 MAT - Differential Calculus	1C01 STA - Basic Statistics	1C01 CSC - Fundamentals of Computers & Programming Languages	1A01 ENG - Communicative English	1A02 ENG - Language Through Literature
5	1C01 CSC - Fundamentals of Computers & Programming Languages	1A01 ENG - Communicative English	1A02 ENG - Language Through Literature	1C01 STA - Basic Statistics	1A07 MAL - Sahithya Ganangal 1A07 HIN - Kavith Aur Kahani

1A01 ENG : COMMUNICATIVE ENGLISH I

No. of Credits: 4

No. of Contact hours: 5 Hrs per week / 90 Hrs

Course Objectives:

- The modules of the course have been planned and selected in such a way as to help the students to develop an overall knowledge and understanding of English Grammar and Phonetics and communicate ideas and information effectively.
- The student will learn to ask relevant questions when necessary, make appropriate and meaningful comments, and insightful observations.
- The student will select and use appropriate listening strategies according to the intended purpose, such as solving problems, interpreting and evaluating techniques and intent of a presentation, and taking action in career-related situations.
- The students will be familiarized with the basics of oral communication and thus develop their ability to use English for performing some of the most vital communicative functions in academic, social and professional situations.
- The student will develop global intelligibility.
- The student will follow the writing conventions correctly without making any serious lapses in grammar or word choices.

Module 1: Phonetics (2 Hours/Week)

1. Received Pronunciation
2. Vowel Sounds
3. Diphthongs
4. Consonants
5. Transcription of Words
6. Syllables and Word Stress
7. Weak Forms
8. Intonation

Module 2: Language (1 Hour/Week)

1. Word Classes 1
2. Word Classes 2
3. Modals
4. Articles

Module 3: Language (1 Hour/Week)

1. Sentence Types
2. Question tags
3. Tenses
4. Subject-Verb concord

Module 4: Composition (1 Hour/Week)

1. Letter Writing
2. CV and Cover letter
3. Essay Writing
4. Paraphrasing

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	30-07-2015 To 31-07-2015	01	Need for phonetics
		02	Need for phonetics
		03	Need for phonetics
2	03-08-2015 To 07-08-2015	04	Phonetic Symbols
		05	Phonetic Symbols
		06	RP
		07	Monophthongs
3	10-08-2015 To 14-08-2015		Spoken English Course
			Spoken English Course
			Spoken English Course
			Spoken English Course
			Spoken English Course
4	17-08-2015 To 21-08-2015	09	Consonants
		10	Transcription
		11	Transcription
		12	Transcription
		21 - Aug	Onam Celebration
5	24-08-2015 To 28-08-2015		Holiday
			Holiday
			Holiday
			Holiday
			Holiday
6	31-08-2015 To 04-09-2015	13	Class test
		14	Seminar
		15	Syllables
		16	Word stress
		17	Word stress
7	07-09-2015 To 11-09-2015	18	Weak forms
		19	Intonation
		20	Intonation
		21	Word classes 1
		22	Noun
8	14-09-2015 To 19-09-2015	23	Pronoun
		24	Adjectives
		25	Adjectives
		17 - Sep	Annual Retreat
			Annual Retreat
	Annual Retreat		

No of Weeks	Dates	Session	Topic
9	21-09-2015 To 25-09-2015		Sree Narayana Guru Samadhi - Holiday
		26	Degree of comparison, Word classes 2
		27	Verbs
			Bakrid - Holiday
			COMET
10	28-09-2015 To 02-10-2015	28	Adverbs
		29	Preposition
		30	Conjunction
		31	Interjection
11	05-10-2015 To 09-10-2015	32	Modals
		33	Articles
		34	Essay writing
		35	Paraphrasing
12	12-10-2015 To 16-10-2015	36	Paraphrasing
		37	CV
		38	Cover letter
		39	Cover letter
13	19-10-2015 To 23-10-2015	40	Letter writing
		41	Resume
		42	Seminar
		43	Revision
14	26-10-2015 To 30-10-2015	44	Revision
			Mahanavami - Holiday
			Vijayadasami - Holiday
			First Internal for UG/PG
			First Internal for UG/PG
			First Internal for UG/PG
			First Internal for UG/PG
			First Internal for UG/PG
15	02-11-2015 To 06-11-2015	45	Sentence types
		46	Sentence types
		47	Question tags
		48	Question tags
16	09-11-2015 To 13-11-2015	49	Subject - Verb Concord
			Deepavali - Holiday
		50	Subject - Verb Concord
		51	Tenses
			Tenses
17	16-11-2015 To 20-11-2015	53	Tenses
		54	Revision
		55	Revision

No of Weeks	Dates	Session	Topic
		56	Revision
		57	Discussion of previous year question paper
18	23-11-2015 To 27-11-2015		Study Leave
			Study Leave
			Second Internal for UG/PG
			Second Internal for UG/PG
19	30-11-2015 To 04-12-2015		Second Internal for UG/PG
			Second Internal for UG/PG
			Second Internal for UG/PG
			Study Leave
20	07-12-2015 To 11-12-2015		Study Leave
			Study Leave
		07 - Dec	I Sem UG University Exam Begins

1A01 ENG : LANGUAGE THROUGH LITERATURE – I

No. of Credits: 3

No. of Contact hours: 4 Hrs per week / 72 Hrs

Course Objectives:

- To highlight the reciprocity of the relationship between writing and reading.
- To develop critical insights and faculties.
- The lexical exercises have been devised to initiate problem-solving activities which facilitate learning.

Module 1 (2 Hours/Week)

1. Voluntary Poverty: M K Gandhi
2. Spoken and Broken English: G B Shaw
3. Thank You: Anonymous

Module 2 (1Hour/Week)

1. The Road Not Taken: Robert Frost
2. New Directions: Maya Angelou
3. To be of Use: Marge Piercy

Module 3(1Hour/Week)

1. My Financial Career: Stephen Leacock
2. There will Come Soft Rains: Sara Teasdale

Core Text: *Language Through Literature 1* (New Delhi: Cambridge University Press)

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	30-07-2015 To 31-07-2015	01	Introduction and Word Games
		02	Word Games
		03	Word Games
2	03-08-2015 To 07-08-2015	04	The Road Not Taken
		05	The Road Not Taken
		06	Exercise
		07	Exercise
3	10-08-2015 To 14-08-2015		Spoken English Course
			Spoken English Course
			Spoken English Course
			Spoken English Course
			Spoken English Course
4	17-08-2015 To 21-08-2015	08	Exercise
		09	Thank You
		10	Exercise
		11	Exercise
		21 - Aug	Onam Celebration
5	24-08-2015 To 28-08-2015		Holiday
			Holiday
			Holiday
			Holiday
			Holiday
6	31-08-2015 To 04-09-2015	12	New Directions
		13	New Directions
		14	New Directions
		15	Exercise
7	07-09-2015 To 11-09-2015	16	Exercise
		17	Spoken English and Broken English
		18	Spoken English and Broken English
		19	Spoken English and Broken English
8	14-09-2015 To 19-09-2015	20	Loan Words
		21	Exercise
		22	Exercise
		17 - Sep	Annual Retreat
			Annual Retreat
	Annual Retreat		
9	21-09-2015 To		Sree Narayana Guru Samadhi - Holiday
		23	Homophones

No of Weeks	Dates	Session	Topic
	25-09-2015	24	Exercise
			Bakrid - Holiday
			COMET
10	28-09-2015 To 02-10-2015	25	Summarizing and paraphrasing
		26	To Be Of Use
		27	To Be Of Use
		28	Figurative Language
11	05-10-2015 To 09-10-2015	29	Exercise
		30	Exercise
		31	Seminar
		32	Seminar
12	12-10-2015 To 16-10-2015	33	My Financial Career
		34	My Financial Career
		35	Exercise
		36	Exercise
13	19-10-2015 To 23-10-2015	37	American and British Spelling
		38	Common Spelling errors
		39	Concord
			Mahanavami - Holiday
14	26-10-2015 To 30-10-2015		Vijayadasami - Holiday
			First Internal for UG/PG
			First Internal for UG/PG
			First Internal for UG/PG
			First Internal for UG/PG
			First Internal for UG/PG
15	02-11-2015 To 06-11-2015	40	There Will Come Soft Rains
		41	There Will Come Soft Rains
		42	There Will Come Soft Rains
		43	Exercise
16	09-11-2015 To 13-11-2015	44	Exercise
			Deepavali - Holiday
		45	Exercise
		46	Voluntary Poverty
17	16-11-2015 To 20-11-2015	47	Voluntary Poverty
		48	Exercise
		49	Exercise
		50	Revision
18	23-11-2015 To 27-11-2015	51	Revision
			Study Leave
			Study Leave
			Second Internal for UG/PG

No of Weeks	Dates	Session	Topic
			Second Internal for UG/PG
			Second Internal for UG/PG
19	30-11-2015 To 04-12-2015		Second Internal for UG/PG
			Second Internal for UG/PG
			Study Leave
			Study Leave
			Study Leave
20	07-12-2015 To 11-12-2015		Study Leave
			Study Leave
		07 - Dec	I Sem UG University Exam Begins

IB01 MAT: DIFFERENTIAL CALCULUS

No. of Credits: 4

No. of Contact hours: 4 Hrs per week / 72 Hrs

Course Objective:

The group "Differential Calculus" works in many facets:

1. Partial differential equations
2. Calculus of variations
3. Mathematical models in physical and biological science etc.

Module - I

Limit and continuity, The Sandwich theorem, Target values and formal definition of limits, Continuity. (Section 1.2, 1.3, and 1.5 of Text 3)

Inverse functions and their derivatives, Derivatives of inverse trigonometric function, Hyperbolic function and derivatives

(Section 6.1, 6.9, 6.10 of Text 3)

Successive differentiation, Standard results - nth derivatives, Leibnitz's theorem.

(Sections 4.1 to 4.3 of Text 2)

Module - II

Polar co-ordinates, Equation for a line in polar co-ordinates, cylindrical polar co-ordinates, Spherical polar co-ordinates, Sphere, cylinder and cone.

(Sections 2.1.3, 2.1.4, 2.1.6, 2.1.7, 2.3.5, 2.3.6 and 2.3.7 of Text 1)

Module - III

Rolle's theorem, Lagrange's mean value theorem, Taylor's theorem, Maclaurin series, Taylor series, Polar curves, Derivative of arc, curvature, radius of curvature (except radius of curvature for pedal curve), Centre of curvature, Evolute and involute, Increasing and decreasing functions, Maxima and minima, Asymptote (Sections 4.3 to 4.7, 4.10, 4.12 to 4.15, 4.17, 4.18, 4.20 of Text 2).

L Hospital's rule - Indeterminate forms, Concavity, Convexity and point of inflection.

(Section 3.4 and 6.6 of Text 3)

Module - IV

Functions of several variables, Limits and continuity, Partial derivatives, Differentiability linearization and differentials, Chain rule

(Sections 12.1 to 12.5 of Text 3)

Homogeneous functions, Euler's theorem on homogeneous functions.

(Sections 11.8 and 11.8.1 of Text 4)

Texts:

1. S. S. Sastry, Engineering Mathematics, Vol. 1, 4th Edition, PHI
2. B.S. Grewal, Higher Engineering Mathematics, 36th Edition
3. G. B. Thomas and R. L. Finney, Calculus and Analytic geometry, 9th Edition.
4. S. Narayan and P. K. Mittal, Differential Calculus, Revised Edition, S. Chand Publishing

References:

1. M. D. Weir, J. Hass and F. G. Giordano, Thomas' Calculus, 11th Edition, Pearson.
2. H. Anton, I. Bivens and S. Davis, Calculus, 7th Edition, Wiley.
3. S. K. Stein, Calculus with Analytic Geometry, McGraw Hill.
4. G. F Simmons, Calculus with Analytic Geometry, 2nd Edition, McGraw Hill.

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	30-07-2015 To 31-07-2015	01	Introduction
		02	Limits laws and Sandwich Theorem
		03	Limits laws and Sandwich Theorem
2	03-08-2015 To 07-08-2015	04	Formal Definition of limit
		05	Continuity, Continuity on intervals
		06	Inverse functions
		07	Derivative of inverse trigonometric functions
3	10-08-2015 To 14-08-2015		Spoken English Course
			Spoken English Course
			Spoken English Course
			Spoken English Course
			Spoken English Course
4	17-08-2015 To 21-08-2015	08	Successive Differentiation
		09	n-th derivative and some standard results
		10	n-th derivative of product functions- Leibniz theorem
		21 - Aug	Onam Celebration
5	24-08-2015 To 28-08-2015		Holiday
			Holiday
			Holiday
			Holiday
			Holiday
6	31-08-2015 To 04-09-2015	11	Hyperbolic functions
		12	Two dimensional geometry-polar co-ordinates
		13	Three dimensional geometry-cylindrical spherical co-ordinates
		14	The cylinder, The cone
7	07-09-2015 To 11-09-2015	15	The Rolle's and Mean value theorem
		16	Taylor's and Maclaurin's theorems
		17	Polar Curves
		18	Curvature of a circle, Evolutes
8	14-09-2015 To 19-09-2015	19	Curvature and Evolutes in parametric and Polar co-ordinates
		20	Increasing and decreasing functions
		21	Maxima and Minima, Asymptotes
		17 - Sep	Annual Retreat
			Annual Retreat
	Annual Retreat		
9	21-09-2015		Sree Narayana Guru Samadhi - Holiday

No of Weeks	Dates	Session	Topic
	To 25-09-2015	22	L hospital's Rule
		23	Graphing with y' and y''
			Bakrid - Holiday
			COMET
10	28-09-2015 To 02-10-2015	24	Functions of several variables
		25	Level surfaces
		26	Limit of function of two variables
		27	Continuity of function of two variables
11	05-10-2015 To 09-10-2015	28	Problems
		29	Cauchy's mean value theorem
		30	Partial derivatives, Partial derivatives of second order
		31	Functions of more than two variables
12	12-10-2015 To 16-10-2015	32	Differentials- Functions of more than two variables
		33	Linearization
		34	Differentials
		35	Linearization, Problems
13	19-10-2015 To 23-10-2015	36	Chain Rules of composite functions
		37	Problems
		38	Test paper
			Mahanavami - Holiday
14	26-10-2015 To 30-10-2015		Vijayadasami - Holiday
			First Internal for UG/PG
			First Internal for UG/PG
			First Internal for UG/PG
			First Internal for UG/PG
			First Internal for UG/PG
15	02-11-2015 To 06-11-2015	39	Maxima and minima
		40	Concavity and convexity
		41	Points of inflection
		42	Chain rule for partial derivatives
16	09-11-2015 To 13-11-2015	43	Problems
			Deepavali - Holiday
		44	Euler's theorem on homogeneous Functions
		45	Problems
17	16-11-2015 To 20-11-2015	46	Problems
		47	Problems
		48	Test paper
		49	Revision
18	23-11-2015 To		Revision
			Study Leave
			Study Leave

No of Weeks	Dates	Session	Topic
	27-11-2015		Second Internal for UG/PG
			Second Internal for UG/PG
			Second Internal for UG/PG
19	30-11-2015 To 04-12-2015		Second Internal for UG/PG
			Second Internal for UG/PG
			Second Internal for UG/PG
		Study Leave	
		Study Leave	
20	07-12-2015 To		Study Leave
			Study Leave
	11-12-2015	07 - Dec	I Sem UG University Exam Begins

1C01 STA : BASIC STATISTICS

No of Credits: 3

No of contact hours: 72

Objectives: -

- i) To provide education in statistics of the highest quality at the undergraduate level and produce graduates of the caliber sought by industries and public service as well as academic teachers and researchers of the future.
- (ii) To attract outstanding students from all backgrounds.
- (iii) To provide an intellectually stimulating environment in which the students have the opportunity to develop their skills and enthusiasms to the best of their potential.
- (iv) To maintain the highest academic standards in undergraduate teaching.
- (v) To impart the skills required to gather information from resources and use them

SYBABUS

Module I: Statistical Methods:

Collection of data, primary and secondary data, Census method, Sample Survey method, Comparison of Census method and Sample Survey method, Principal steps in a sample survey; Types of sampling-probability, non-probability, restricted and non-restricted sampling, judgment and mixed sampling, [SRSWOR, SRSWR, stratified and systematic sampling methods (definition only).

Module II: Measures of Central Tendency:

Definition and properties of various measures of central tendency - AM, Median, Mode, GM, HM and weighted averages; Partition Values – Quartiles, Deciles, Percentiles; Dispersion : Definition and properties of various measures of dispersion – Range, QD, MD, SD, CV and other Relative measures of dispersion. Moments – raw moments, central moments and relation between them; Skewness and Kurtosis: Definition and various measures of skewness and kurtosis.

Module III: Correlation and Regression Analysis:

Method of Least Square - Scatter Diagram, Fitting of linear, quadratic and exponential curves, principle of least squares; Regression Analysis - linear regression, fitting of regression lines, regression coefficients and their properties; Correlation Analysis - Definition and properties of correlation coefficient, rank correlation coefficient (with and without ties), definitions of partial and multiple correlation coefficients (trivariate case only).

Module IV: Time Series and Index Numbers:

Time series - Meaning, need, components and models of time series, estimation of linear trend by least square method; Index Numbers: Meaning and uses of index numbers; weighted index numbers- Laspeyer's, Paasche's and Fisher's Index Numbers, time reversal and factor reversal tests.

Books for Reference:

1. S. C. Gupta & V. K. Kapoor: Fundamentals of Mathematical Statistics, Sulthan Chand & Sons
2. S. C. Gupta & V. K. Kapoor: Fundamentals of Applied Statistics, Sulthan Chand & Sons

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	30-07-2015 To 31-07-2015	01	Introduction
		02	Definition and various measures of central tendency
		03	Definition and various measures of central tendency
2	03-08-2015 To 07-08-2015	04	Arithmetic mean
		05	Properties of Arithmetic mean
		06	Median
		07	Mode
3	10-08-2015 To 14-08-2015		Spoken English Course
			Spoken English Course
			Spoken English Course
			Spoken English Course
			Spoken English Course
4	17-08-2015 To 21-08-2015	08	Harmonic mean
		09	Geometric mean
		10	Problems of HM and GM
		11	Partition values
		21 - Aug	Onam Celebration
5	24-08-2015 To 28-08-2015		Holiday
			Holiday
			Holiday
			Holiday
			Holiday
6	31-08-2015 To 04-09-2015	12	Problems of partition values
		13	Dispersion
		14	Range
		15	Mean deviation
7	07-09-2015 To 11-09-2015	16	Quartile deviation
		17	Standard deviation
		18	Properties of SD
		19	Problems of SD
8	14-09-2015 To 19-09-2015	20	Coefficient of variation
		21	Moments
		22	Raw moments
		17 - Sep	Annual Retreat
			Annual Retreat
			Annual Retreat
9	21-09-2015 To		Sree Narayana Guru Samadhi - Holiday
		23	Central moments

No of Weeks	Dates	Session	Topic
	25-09-2015	24	Skewness
			Bakrid - Holiday
			COMET
10	28-09-2015 To 02-10-2015	25	Kurtosis
		26	Problems of skewness and Kurtosis
		27	Methods of least squares
		28	Methods of least squares
11	05-10-2015 To 09-10-2015	29	Scatter Diagram, Fitting of linear
		30	Quadratic and exponential curves
		31	Principle of least squares
		32	Regression Analysis - linear regression
12	12-10-2015 To 16-10-2015	33	Fitting of regression lines
		34	Regression coefficients and their properties;
		35	Correlation Analysis
		36	Definition and properties of correlation coefficient
13	19-10-2015 To 23-10-2015	37	Rank correlation coefficient
		38	Definitions of partial correlation coefficients.
		39	Multiple correlation coefficients
			Mahanavami - Holiday
			Vijayadasami - Holiday
14	26-10-2015 To 30-10-2015		First Internal for UG/PG
			First Internal for UG/PG
			First Internal for UG/PG
			First Internal for UG/PG
			First Internal for UG/PG
			First Internal for UG/PG
15	02-11-2015 To 06-11-2015	40	Collection of data
		41	Comparison of Census method and Sample Survey method
		42	Types of sampling-probability, non-probability, restricted and non-restricted sampling
		43	SRSWOR, SRSWR, stratified and systematic sampling methods
16	09-11-2015 To 13-11-2015	44	Problems
			Deepavali - Holiday
		45	Time series - Meaning
		46	Estimation of linear trend by least square method;
		47	Index Numbers: Meaning and uses of index numbers.
17	16-11-2015 To 20-11-2015	48	Weighted index numbers-
		49	Laspeyer's, Paasche's and Fisher's Index Numbers,
		50	Problems of Index numbers
		51	Time reversal and factor reversal tests

No of Weeks	Dates	Session	Topic
18	23-11-2015 To 27-11-2015	52	Class Test
			Study Leave
			Second Internal for UG/PG
			Second Internal for UG/PG
19	30-11-2015 To 04-12-2015		Second Internal for UG/PG
			Second Internal for UG/PG
			Second Internal for UG/PG
			Study Leave
20	07-12-2015 To 11-12-2015		Study Leave
			Study Leave
		07 - Dec	I Sem UG University Exam Begins

1C01 CSC: FUNDAMENTALS OF COMPUTERS AND PROGRAMMING LANGUAGE

No of Credits: 2

No of contact hours: 4

Module I

Introduction to Computers: Characteristics, Generation, Classification, CPU- ALU, Registers, Control Unit, System Bus, Main Memory Unit, Cache Memory. Types of RAM & ROM. Secondary storage devices: magnetic, optical and magneto-optical storage devices. Mass storage devices.

Module II

Representation of information: number system, binary, octal, hexadecimal system, conversion between number systems, different code used BCD, ASCII, EBCDIC, GRAY Code

Module III

System software: Assembler- compiler- interpreter- loader- linker - Operating Systems: Functions of OS- importance- Batch processing system- Multi programming- Time sharing system- Real time OS.

Module IV

Introduction to Computer networking- Goals- topologies-bus- star- ring- mesh- graph-tree- transmission modes- transmission media - classification of networks- LAN, WAN, MAN

Module V

Computer Programming: Introduction, Developing a program, program development cycle, Algorithm, Flowchart, program control structures, programming paradigms. Assembler, Compiler and Interpreter. Characteristics of a good program, Program structure, top-down design, source code, object code, executable file, file extensions.

Text Book :

1. V. Rajaraman, Introduction to Information Technology, Prentice Hal
2. Stuart E Madnick and John J Donovan, "Operating Systems", Tata McGraw-Hill
3. A S Tanenbaum . Computer Networks 3rd Edn Pearson Pub

Reference books:

1. Computer Networks – Fundamentals and Applications, Rajesh, Easarakumar & Balasubramaian, Vikas pub
2. B Forousan, Introduction to data communication and networking
3. Pradeep.K. Sinha &Priti Sinha, Computer Fundamentals, BPB Pub
4. Peter Norton, Introduction to Computers,6e,(Indian Adapted Edition)
5. Alexis & Mathews Leon, Fundamentals of Information Technology, Leon Vikas

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	30-07-2015 To 31-07-2015	01	Introduction to Computers
		02	Characteristics of Computers
		03	Characteristics of Computers
2	03-08-2015 To 07-08-2015	04	Generation of Computers
		05	Classification of Computers
		06	CPU- ALU, Registers, Control Unit
		07	System Bus
3	10-08-2015 To 14-08-2015		Spoken English Course
			Spoken English Course
			Spoken English Course
			Spoken English Course
			Spoken English Course
4	17-08-2015 To 21-08-2015	08	Main Memory Unit, Cache Memory
		09	Types of RAM & ROM.
		10	Secondary storage devices: magnetic devices
		21 - Aug	Onam Celebration
5	24-08-2015 To 28-08-2015		Holiday
			Holiday
			Holiday
			Holiday
			Holiday
6	31-08-2015 To 04-09-2015	11	Optical and magneto-optical storage devices
		12	Mass storage Devices
		13	Test Module I
		14	Number system, binary, octal, hexadecimal system,
7	07-09-2015 To 11-09-2015	15	Conversion between number systems
		16	Conversion between number systems
		17	Conversion between number systems
		18	Different code used BCD, ASCII code
8	14-09-2015 To 19-09-2015	19	EBCDIC, GRAY Code
		20	Test Module II
		21	System software: Assembler- compiler- interpreter
		17 - Sep	Annual Retreat
			Annual Retreat
9	21-09-2015 To 25-09-2015		Sree Narayana Guru Samadhi - Holiday
		22	Loader- linker
		23	Operating Systems: Functions of OS- importance-

No of Weeks	Dates	Session	Topic
			Bakrid - Holiday
			COMET
10	28-09-2015 To 02-10-2015	24	Batch processing system- Multi programming OS
		25	Time sharing system- Real time OS.
		26	Test Module III
		27	Introduction to Computer networking, Goals
11	05-10-2015 To 09-10-2015	28	Topologies-bus- star- ring- mesh- graph-tree
		29	Transmission modes
		30	Transmission media
		31	Classification of networks- LAN, WAN, MAN
12	12-10-2015 To 16-10-2015	32	Test Module IV
		33	Computer Programming Introduction
		34	Developing a program
		35	Program development cycle
13	19-10-2015 To 23-10-2015	36	Algorithm
		37	Flowchart
		38	Program control structures
			Mahanavami - Holiday
			Vijayadasami - Holiday
14	26-10-2015 To 30-10-2015		First Internal for UG/PG
			First Internal for UG/PG
			First Internal for UG/PG
			First Internal for UG/PG
			First Internal for UG/PG
			First Internal for UG/PG
15	02-11-2015 To 06-11-2015	39	Programming paradigms
		40	Characteristics of a good program
		41	Program structure
		42	Top-down design
16	09-11-2015 To 13-11-2015	43	Source code, object code
			Deepavali - Holiday
		44	Executable file, file extensions.
		45	Test Module V
17	16-11-2015 To 20-11-2015	46	Revision I Module
		47	Revision II Module
		48	Revision III Module
		49	Revision IV and V Module
18	23-11-2015 To 27-11-2015		Study Leave
			Study Leave
			Second Internal for UG/PG
			Second Internal for UG/PG
			Second Internal for UG/PG

No of Weeks	Dates	Session	Topic
19	30-11-2015 To 04-12-2015		Second Internal for UG/PG
			Second Internal for UG/PG
			Second Internal for UG/PG
			Study Leave
			Study Leave
20	07-12-2015 To 11-12-2015		Study Leave
			Study Leave
		07 - Dec	I Sem UG University Exam Begins