

SVKM's Narsee Monjee College of Commerce and Economics

JVPD, Vile Parle (West), Mumbai 400 056.

TEACHING PLAN FOR DEGREE COLLEGE FOR THE YEAR 2015-2016

Department : BSc IT

Class :- F.Y.B.Sc. IT

Subject: Professional Communication Skills

Month	Working week no.	Week Dates (Mon. to Sat)	Topic to be covered during the week
June. College reopens on 8 th June.	1	08/06 to 13/06	
	2	15/06 to 20/06	The Seven Cs of Effective Communication
	3	22/06 to 27/06	Completeness, Conciseness, Consideration,
Ramzad-Id: 18th July	4	29/06 to 30/06	Concreteness, Clarity, Courtesy, Correctness
	4	01/07 to 04/07	(Revision)Communication: Its interpretation
	5	06/07 to 11/07	Basics, Nonverbal Communication,
	6	13/07 to 18/07	Karnaugh maps: SOP and POS forms, Quine McClusky method. (Revision)
	7	20/07 to 25/07	Combinational Circuits: Half adder, full adder, code converters, combinational circuit design,

	8	27/07 to 31/07	Multiplexers and demultiplexers, encoders, decoders,
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Month	Working week no.	Week Dates (Mon. to Sat)	Topic to be covered during the week
August 15/8 Ind. Day, 18th Pateti	8	01/08	Combinational design using mux and demux. Communication, Notice agenda and Minutes of meeting, Brochures
	9	03/08 to 08/08	Flip flops (RS, Clocked RS, D, JK, JK Master Slave, (Revision)
	10	10/08 to 15/08	Counters: Synchronous and Asynchronous counters.
	11	17/08 to 22/08	Basic Organisation, Memory: ROM, RAM, PROM, EPROM, EEPROM,
	12	24/08 to 29/08	Secondary Memory: Hard Disk and optical Disk, Cache Memory, I/O devices
	13	31/08	Types (real Time, Single User / Single Tasking, Single user / Multi tasking, Multi user / Multi tasking, GUI based OS. Overview of desktop operating .
September 17/9, Ganesh Chaturthi, 25/9 Bakri-Id	13	01/09 to 05/09	Revision
	14	07/09 to 12/09	Revision
	15	14/09 to 19/09	
	16	21/09 to 26/09	

	17	28/09 to 30/09	
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Month	Working week no.	Week Dates (Mon. to Sat)	Topic to be covered during the week
October. 2/10 Gandhi Jayanti, Diwali Break from Oct 22nd	17	01/10 to 03/10	
	18	05/10 to 10/10	
	19	12/10 to 17/10	
	20	19/10 to 21/10	
		26/10 to 31/10	
Nov. College closes for Diwali Vacation on 22.10.2013 and reopens on 16 th Nov. for IInd Term.		02/11 to 07/11	
		09/11 to 14/11	
	1	16/11 to 21/11	
	2	26/11 to 28/11	

Month	Working week no.	Week Dates (Mon. to Sat)	Topic to be covered during the week
Dec. College closes on 26th Dec.	3	30/11	
	3	01/12 to 05/12	
	4	07/12 to 12/12	
	5	14/12 to 19/12	
	6	21/12 to 26/12	
	7	28/12 to 31/12	
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Month	Working week no.	Week Dates (Mon. to Sat)	Topic to be covered during the week
Feb 19th Feb. Shivaji Jayanti	12	01/02 to 06/02	
	13	08/02 to 13/02	
	14	15/02 to 20/02	
	15	22/02 to 27/02	
March Holi, Good Friday & Mahashivratri	16	29/02	
	16	01/03 to 05/03	
	17	07/03 to 12/03	
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	21	28/03 to 31/03	
Month	Working week no.	Week Dates (Mon. to Sat)	Topic to be covered during the week
April Gudi Padwa, Dr. Ambedkar Jayanti, Gudi Padwa/ Mahavir Jayanti	21	01/04 to 02/04	
	22	04/04 to 09/04	
	23	11/04 to 16/04	
	24	18/04 to 23/04	
	25	25/04 to 30/04	
Names & Signature of the staff member Ms.Anita Phillips			Head of the Department / Seniormost Teacher

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TEACHING PLAN FOR DEGREE COLLEGE FOR THE YEAR 2015-2016

Department : BSc IT

Class :- F.U.B.Sc. IT

Subject: Fundamentals of Information Technology

Month	Working week no.	Week Dates (Mon. to Sat)	Topic to be covered during the week
June. College reopens on 8 th June.	1	08/06 to 13/06	
	2	15/06 to 20/06	Features of Digital Systems, Number Systems-Decimal, Binary, Octal, Hexadecimal and their inter conversions, Representation of Data
	3	22/06 to 27/06	Magnitude, one's complement and two's complement, Binary Arithmetic, Fixed point representation and Floating point representation of numbers.
Ramzad-Id: 18th July	4	29/06 to 30/06	BCD, XS-3, Gray code, hamming code, alphanumeric codes (ASCII, EBCDIC, UNICODE), Error detecting and error correcting codes.
	4	01/07 to 04/07	(Revision) Basic gates (AND, OR, NOT gates), Universal gates (NAND and NOR gates), other gates (XOR, XNOR gates).
	5	06/07 to 11/07	Boolean identities, De Morgan Laws.
	6	13/07 to 18/07	Karnaugh maps: SOP and POS forms, Quine McClusky method. (Revision)
	7	20/07 to 25/07	Combinational Circuits: Half adder, full adder, code converters, combinational circuit design,

	8	27/07 to 31/07	Multiplexers and demultiplexers, encoders, decoders,
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Month	Working week no.	Week Dates (Mon. to Sat)	Topic to be covered during the week
August 15/8 Ind. Day, 18th Pateti	8	01/08	Combinational design using mux and demux. Communication, Notice agenda and Minutes of meeting, Brochures
	9	03/08 to 08/08	Flip flops (RS, Clocked RS, D, JK, JK Master Slave, (Revision)
	10	10/08 to 15/08	Counters: Synchronous and Asynchronous counters.
	11	17/08 to 22/08	Basic Organisation, Memory: ROM, RAM, PROM, EPROM, EEPROM,
	12	24/08 to 29/08	Secondary Memory: Hard Disk and optical Disk, Cache Memory, I/O devices
	13	31/08	Types (real Time, Single User / Single Tasking, Single user / Multi tasking, Multi user / Multi tasking, GUI based OS. Overview of desktop operating .
September 17/9, Ganesh Chaturthi, 25/9 Bakri-Id	13	01/09 to 05/09	Revision
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	13	08/02 to 13/02	
	14	15/02 to 20/02	
	15	22/02 to 27/02	
March Holi, Good Friday & Mahashivratri	16	29/02	
	16	01/03 to 05/03	
	17	07/03 to 12/03	
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Month	Working week no.	Week Dates (Mon. to Sat)	Topic to be covered during the week
April Gudi Padwa, Dr. Ambedkar Jayanti, Gudi Padwa/ Mahavir Jayanti	21	01/04 to 02/04	
	22	04/04 to 09/04	
	23	11/04 to 16/04	
	24	18/04 to 23/04	
	25	25/04 to 30/04	
Names & Signature of the staff member	Anupama Jawale		Head of the Department / Seniormost Teacher

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TEACHING PLAN FOR DEGREE COLLEGE FOR THE YEAR 2015-2016

Department : BSc IT

Class :- F.Y.B.Sc. IT

Subject: Electronics & Telecommunications

Month	Working week no.	Week Dates (Mon. to Sat)	Topic to be covered during the week
June. College reopens on 8 th June.	1	08/06 to 13/06	Concept of Conductor, Semiconductor, Insulator Semiconductor Diode, Forward Bias, Reverse Bias
	2	15/06 to 20/06	Application of Diode as Rectifier, Concept of ZENER Diode and its characteristics and applications Introduction to Transistors (BJT, FET), PNP, NPN
	3	22/06 to 27/06	Application of transistor as switch and amplifier Concept of amplification, amplifier notations, Av, Ai, Ap Zi, Zo), Application of BJT as single stage Amplifier,
Ramzad-Id: 18th July	4	29/06 to 30/06	Frequency response of single stage Amplifier. Multistage Amplifiers:- (Basics concepts) RC coupled, cascade, Darlington pair, DC amplifiers.
	4	01/07 to 04/07	Concept of Feedback:-Negative Feedback and its advantage in Amplification, Positive Feedback :- Oscillators
	5	06/07 to 11/07	RC Phase Shift Oscillator, LC Oscillator. Switching Circuits Multivibrators :- Monostable using IC 555 and Astable using IC 555 (including problems)
	6	13/07 to 18/07	Introduction:- Need for modulation system, Concept of Modulation. AM:Definition of AM, Modulation index, Power relation in AM, Generation and Demodulation of AM.
	7	20/07 to 25/07	SSB:- Power requirement in comparison with AM. Advantages of SSB over AM, Concept of Balanced Modulator, Generation of SSB,

	8	27/07 to 31/07	Pilot Carrier System, Independent Side System, Vestigial Sideband Transmission.
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August 15/8 Ind. Day, 18th Pateti	8	01/08	FM: - Definition of FM, Bandwidth, Noise triangle, Per-emphasis and De-emphasis. PM: - Definition of PM. Difference between AM and FM.
	9	03/08 to 08/08	Radio receivers. Pulse Modulation:- Sampling Theorem, PAM, PTM, PWM, PPM, Pulse code modulation, Quantization noise, companding,
	10	10/08 to 15/08	Television Transmitter, television receiver.
	11	17/08 to 22/08	Introduction to Digital Communication: PSK, ASK, FSK. Introduction to fibre optics system:- Propagation of light in optical fibre; ray model .
	12	24/08 to 29/08	Types of fibre : Single mode, steps index. Graded index. Signal distortion: attenuation, dispersion. Optical sources: LED, LASERS. Optical Detectors and optics links. Link Budget.
	13	31/08	Multiplexing: - FDM/TDM. Television:-Scanning, Composite Video signal,
September 17/9, Ganesh Chaturthi, 25/9 Bakri-Id	13	01/09 to 05/09	PCM system, differential PCM, Delta modulation.
	14	07/09 to 12/09	Revision
	15	14/09 to 19/09	Revision
	16	21/09 to 26/09	

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March Holi, Good Friday & Mahashivratri	16	29/02	
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Month	Working week no.	Week Dates (Mon. to Sat)	Topic to be covered during the week
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	22	04/04 to 09/04	
	23	11/04 to 16/04	
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Names & Signature of the staff member			Head of the Department / Seniormost Teacher

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TEACHING PLAN FOR DEGREE COLLEGE FOR THE YEAR 2015-2016

Department : BSc IT

Month	Working week no.	Week Dates (Mon. to Sat)	Topic to be covered during the week
June. College reopens on 8 th June.	1	08/06 to 13/06	Unit 1 - Programming Logic and techniques : Algorithms, Flow-charts, Program Design, Introduction to C++: Origin of C++.
	2	15/06 to 20/06	A Sample C++ program, pitfall and programming tips. Testing and Debugging. Unit II - C++ concepts : Variables and Assignments: variables, identifiers, variable declarations.
	3	22/06 to 27/06	Assignment Statements, reference variable, symbolic constant, Input and Output: cin, cout, escape sequences, include directives and Namespaces, Indenting and Comments, Operator precedence, Data types and expressions, Arithmetic operators, Type compatibilities.
Ramzad-Id: 18th July	4	29/06 to 30/06	Unit III : Flow of Control : Compound statements, Loops: while, for, do while, nested loops, Decision making: if – else, nested if else, switch , break and continue.
	4	01/07 to 04/07	Manipulators: endl , setw, sizeof, Increment and decrement operators, Type Cast Operators, Scope resolution operators.
	5	06/07 to 11/07	Unit IV : Functions: Function Prototypes, built in functions and user defined functions, Function overloading, Call by reference.
	6	13/07 to 18/07	Call by value, const member functions. Inline Functions and recursive functions, Math Library Functions.
	7	20/07 to 25/07	Unit V : Derived Data types (Arrays , pointers , functions), Introduction to arrays, arrays in functions, 2-D arrays , Multidimensional arrays.

	8	27/07 to 31/07	Introduction to pointers, void pointers, pointers in function, pointer to constant and constant pointer, generic pointer.
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Month	Working week no.	Week Dates (Mon. to Sat)	Topic to be covered during the week
August 15/8 Ind. Day, 18th Pateti	8	01/08	
	9	03/08 to 08/08	Unit VI - Strings, Vectors and Structures : String functions: strcmp, strcat, strlen, strcpy .
	10	10/08 to 15/08	Vector Basics. Introduction to Structures.
	11	17/08 to 22/08	Revision
	12	24/08 to 29/08	Revision
	13	31/08	
September 17/9, Ganesh Chaturthi, 25/9 Bakri-Id	13	01/09 to 05/09	
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	15	22/02 to 27/02	
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Month	Working week no.	Week Dates (Mon. to Sat)	Topic to be covered during the week
April Gudi Padwa, Dr. Ambedkar Jayanti, Gudi Padwa/ Mahavir Jayanti	21	01/04 to 02/04	
	22	04/04 to 09/04	
	23	11/04 to 16/04	
	24	18/04 to 23/04	
	25	25/04 to 30/04	
Names & Signature of the staff member			Head of the Department / Seniormost Teacher

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TEACHING PLAN FOR DEGREE COLLEGE FOR THE YEAR 2015-2016

Department : BSc IT

Class :- SYBSc IT

Subject: Logic and Discrete Mathematics

Month	Working week no.	Week Dates (Mon. to Sat)	Topic to be covered during the week
June. College reopens on 8 th June.	1	08/06 to 13/06	
	2	15/06 to 20/06	
	3	22/06 to 27/06	
Ramzad-Id: 18th July	4	29/06 to 30/06	Minors and Cofactors, Adjoint of a square matrix, Inverse of a matrix.
	4	01/07 to 04/07	Rank of a matrix, Solution of Homogeneous and non homogeneous linear Equations using Matrix method.
	5	06/07 to 11/07	Vectors, linear combination of vectors, Inner Product of two vectors, characteristic equation, Eigen Vector,
	6	13/07 to 18/07	Cayley- Hamilton Theorem, Similarity of Matrices, Derogatory and Non-derogatory matrices,
	7	20/07 to 25/07	Complex Matrices: Hermitian, skew-Hermitian and Unitary matrices and their properties.

	8	27/07 to 31/07	Vector Differentiation: Vector Operator Del, Gradient, and Geometrical Meaning of gradient, Divergence and Curl.
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Month	Working week no.	Week Dates (Mon. to Sat)	Topic to be covered during the week
August 15/8 Ind. Day, 18th Pateti	8	01/08	--
	9	03/08 to 08/08	Class Internal Test
	10	10/08 to 15/08	Differential Equations of 1st order and 1st degree and applications
	11	17/08 to 22/08	Linear Differential equations with constant coefficient,
	12	24/08 to 29/08	Differential equations of higher order and applications.
	13	31/08	Successive differentiation, Mean Value theorems, Partial differentiation
September 17/9, Ganesh Chaturthi, 25/9 Bakri-Id	13	01/09 to 05/09	Euler's Theorem, Approximation and errors,
	14	07/09 to 12/09	Maxima and Minima
	15	14/09 to 19/09	Revision
	16	21/09 to 26/09	

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Names & Signature of the staff member			Head of the Department / Seniormost Teacher