FACULTY OF ECONOMICS AND BUSINESS

SYLLABUS
of
B.Sc. Economics
(Semester I -II)
(Under Continuous Evaluation System)

Session: 2018-19

The Heritage Institution
KANYA MAHA VIDYALAYA
JALANDHAR
(Autonomous)

Kanya Maha Vidyalaya, Jalandhar (Autonomous)
SCHEME AND CURRICULUM OF EXAMINATIONS OF THREE YEAR DEGREE PROGRAM
Bachelor of Science (Economics)
Session: 2018-19

Bachelor of Science (Economics) Semester I							
Course Code	**Course Name**			**Course Type**	**Marks**				**Examination time (in Hours)**
					Total	**Ext.**		**CA**	
						L	**P**		
BECL-1421 BECL-1031 BECL-1431	Punjabi(Compulsory) [1]Basic Punjabi [2]Punjab History and Culture			C	50	40	-	10	3
BECL-1212	English (Compulsory)			C	50	40	-	10	3
BECM-1333	**Mathematics**	I	(Algebra)	E	100	80 (40+40)	-	20	3+3
		II	(Calculus and Trigonometry)						
BECL-1453	**Quantitative Techniques** (Quantitative Techniques-I)			E	100	80	-	20	3
BECM-1134	**Computer Science** (Computer Fundamental and PC Software)			E	100	50	30	20	3+3
	(P)	**Computer Science**(Computer Fundamental and PC Software) (PRACTICAL)							
BECM-1124	**Computer Applications (Vocational)**(Computer Fundamentals and PC Software)			E	100	50	30	20	3+3
	(P)	**Computer Applications** (Computer Fundamentals and PC Software) (PRACTICAL)							
BECL-1175	**Economics**(Microeconomics)			C	100	80	-	20	3
AECD-1161	*Drug Abuse: Problem Management and Prevention (Compulsory)			AC	50	40	-	10	3
SECF-1492	*Foundation Course			AC	25	20	-	5	1
Total					**400**				

C-Compulsory
E-Elective
AC- Audit Course
[1] **Special paper in lieu of Punjabi (Compulsory).**
[2] **Special paper in lieu of Punjabi (Compulsory) for those students who are not domicile of Punjab.**
*Marks of these papers will not be added in total marks and only grades will be provided.

B. Sc. (Eco.) (Semester–I)
Session 2018-19
Course Code : BECL-1421

Bachelor of Science (Economics)
Session: 2018-19

Bachelor of Science (Economics) Semester II								
Course Code	**Course Name**		**Course Type**	**Marks**				**Examination time (in Hours)**
				Total	**Ext.**		**CA**	
					L	**P**		
BECL-2421 BECL-2031 BECL-2431	Punjabi(Compulsory) [1]Basic Punjabi [2]Punjab History and Culture		C	50	40	-	10	3
BECL-2212	English (Compulsory)		C	50	40	-	10	3
BECM-2333	**Mathematics**	I Calculus and Differential Equations	E	100	80 (40+40)	-	20	3+3
		II Calculus						
BECL-2453	**Quantitative Techniques** (Quantitative Techniques-II)		E	100	80	-	20	3
BECM-2134 (P)	**Computer Science** (Programming in C) **Computer Science** (Programming in C) (PRACTICAL)		E	100	50	30	20	3+3
BECM-2124 (P)	**Computer Applications (Vocational)**(Programming Using C) **Computer Applications** (Programming Using C) (PRACTICAL)		E	100	50	30	20	3+3
BECL-2175	**Economics**(Macroeconomics)		C	100	80	-	20	3
AECD-2161	*Drug Abuse: Problem Management and Prevention (Compulsory)		AC	50	40	-	10	3
SECM-2502	*Moral Education		AC	25	20	-	5	1
Total				**400**				

C-Compulsory
E-Elective
AC- Audit Course
[1] Special paper in lieu of Punjabi (Compulsory).
[2] Special paper in lieu of Punjabi (Compulsory) for those students who are not domicile of Punjab.
*Marks of these papers will not be added in total marks and only grades will be provided.

;wK L 3 x_iN/   Maximum Marks: 50
                                                        Theory: 40
                                                           CA: 10

nze tzv ns/ gohfyne bJh jdkfJsK

1.   gqPB gso d uko Gkr j'Dr/. jo Gkr ftu d gqPB g[S ikDr.
2.   ftfdnkoEh B e[b gzi gqPB eoB jB. jo Gkr ftu'A fJe gqPB bkIwh j?. gzitK gqPB fe;/ th Gkr ftu'A ehsk ik ;edk j?.
3.   jo/e gqPB d d; nze jB.
4.   g/go ;?N eoB tkbk i/eo ukj/ sK gqPBK dh tzv nrⁱ tX s'A tX uko T[g gqPBK ftu eo ;edk j?.

gkmeqw ns gkmg[;seK

ਸੈਕਸ਼ਨ - ਏ

d ozr (eftsk Gkr) (;zgk. jofido f;zx fY`b ns/ gqhsw f;zx ;or'Xhnk), r[o
BkBe d/t h{Bhtof;Nh, nzfwqs;o.
(ਲੇਖਕ ਦਾ ਜੀਵਨ ਤੇ ਰਚਨਾ /ਪ੍ਰਸੰਗ ਸਹਤ ਵਿਆਖਿਆ/ਕਹਵਤਾਂ ਦਾ ਵਿਸ਼ਾ-ਵਸਤੂ)

ਸੈਕਸ਼ਨ - ਬੀ

;z;ko dhnK gqf;X j;shnK (ihtBh Bil 1 s'A 9 se)
(;zgk. fgqz. s/ik f;zx, joBkw f;zx Pkw),gzikph ;kfjs gqekPB, nzfwqs;o.
(ਵਿਸ਼ਾ-ਵਸਤੂ/ਸਾਰ/ਨਾਇਕ ਗੁਣ)

ਸੈਕਸ਼ਨ - ਸੀ

(T) g?oQk ouBk (fszB ftuⁱ fJe)
(n) g?oQk gVQ e gqPBK d T[so.

ਸੈਕਸ਼ਨ - ਡੀ

(T) **GkPk tzBrhnK** L GkPk dk Ne;kbh o{g, GkPk ns/ T[gGkPk ftu nzso, gzikph T[gGkpktK d/ gSkD fuzBQ.
(n) **gzikph GkPk L fBek; s/ ftek;**

B. Sc. (Eco.) (Semester–I)
Session 2018-19
Course Code: BECL-1031
w[ZYbh gzikph
(In lieu of Compulsory Punjabi)

;wK L 3 xN   Max. Marks: 50
                                                        Theory: 40
                                                        CA: 10

nze tzv ns/ gohfyne bJh jdkfJsK

1.   gqPB gso d uko Gkr j'Dr/. jo Gkr ftu d gqPB g[S ikDr/.

2.   ftfdnkoEh B e[b gzi gqPB eoB jB. jo Gkr ftu'A fJe gqPB bkiwh j?. gzitK
        gqPB fe;/ th Gkr ftu'_ ehsk ik ;edk j?.

3.   jo/e gqPB d nZm nze jB.

4.   g/go ;?N eoB tkbk ieo ukj/ sK gqPBK dh tzv nr̂ tX s'A tX uko T[g gqPBK ftu eo
        ;edk j?.

gkm eqw

;?ePB J/

g?Ash nyoh, nyo eqw, g?o fpzdh tkb toD ns/ g?o ftu g?D tkb toD ns/ wksqtK (w[ZYbh
ikD gSkD) brkyo (fpzdh, fNgh, nXe) L gSkD ns/ tos'A .   08 nze

;?ePB ph

gzikph Ppd pDso L w[ZYbh ikD gSkD (;kXkoB Ppd, ;zh[es Ppd, fwPos Ppd, w{b
Ppd, nr/so ns/ fgS/so)   08 nze

;?ePB ;h

fBs tos'A dh gzikph Ppdktbh L pkIko, tgko, foPs/Bks/, y/sh ns/ j'o XfdnK nkfd Bkb
;zpzXs.   08 nze

;?ePB vh

j|s/ d ;s fdBK d BK, pkoII wjhfBnK d BK, o[sK d BK, fJe s'A " se frDsh PpdK ftu
-
                                                               08 nze

B. Sc. (Eco.) (Semester–I)
Session 2018-19
Course Code: BECL-1431

Punjab History & Culture (From Earliest Times to C 320)
(Special Paper in lieu of Punjabi compulsory)

Time: 3 Hours **Max. Marks: 50**
Theory: 40
CA: 10

Instructions for the Paper Setters:
Question paper shall consist of four Units. Candidates shall attempt 5 questions in all, by at least selecting One Question from each section and the 5th question may be attempted from any of the four sections. Each question will carry 8 marks.

Unit A
1. Physical features of the Punjab and impact on history.
2. Sources of the ancient history of Punjab

Unit- B
3. Harappan Civilization: Town planning; social, economic and religious life of the India Valley People.
4. The Indo-Aryans: Original home and settlement in Punjab.

Section C
5. Social, Religious and Economic life during later *Rig* Vedic Age.
6. Social, Religious and Economic life during later Vedic Age.

Section D
7. Teaching and impact of Buddhism
8. Jainism in the Punjab

Suggested Readings
1. L. Joshi (ed): *History and Culture of the Punjab*, Art-I, Patiala, 1989 (3rd edition)
2. L.M. Joshi and Fauja Singh (ed); *History of Punjab* , Vol.I, Patiala 1977.
3. Budha Parkash : *Glimpses of Ancient Punjab*, Patiala, 1983.
4. B.N. Sharma: *Life in Northern India*, Delhi. 1966.

English (Compulsory)

Time: 3 Hours   Max. Marks: 50
                                                                                                            Theory: 40
                                                                                                            CA: 10

Texts Prescribed:
1. *Tales of Life* (Guru Nanak Dev University, Amritsar) Stories at Sr.No.1, 2, 3, 5 and 6
2. *Prose for Young Learners* (Guru Nanak Dev University, Amritsar) Essays at Sr. No. 1, 2, 3, 5, and 6
3. *English Grammar in Use* (Fourth Edition) by Raymond Murphy, CUP

The syllabus is divided in four sections as mentioned below.
Section-A: English Grammar in Use, 4th Edition by Raymond Murphy, CUP (Units: 1-37)
Section -B: Paragraph Writing and English Grammar in Use (Units: 38-48)
Section -C: Tales of Life (Guru Nanak Dev University, Amritsar): Stories at Sr. No. 1, 2, 3, 5 and 6
Section -D: Prose for Young Learners: Essays at Sr. No. 1, 2, 3, 5 and 6

Instructions for the Paper-Setter and Distribution of Marks:
The question paper will consist of four sections and distribution of marks will be as under:
The question paper will be divided into four sections.
Section-A: The question will be set from Section-A of the syllabus. Fourteen sentences would be set and the students would be required to attempt any ten. Each sentence would carry one mark. (1x10=10 marks)
Section-B: Two questions will be set from Section-B of the syllabus. The students would be required to attempt one paragraph out of the given two topics. It would carry five marks. The second question will be based on grammar. The students will be required to attempt any five sentences out of eight and each sentence will carry one mark. (2x5=10 marks)
Section-C: Two questions will be set from Section-C of the syllabus. One essay type question with internal choice would be set, which carries six marks. The students would be required to attempt any one. The second question would carry three questions. The students would be required to attempt any two. Each question would carry two marks. (6+2x2=10 marks)
Section-D: Two questions will be set from Section-D of the syllabus. One essay type question with internal choice would be set, which carries six marks. The students would be required to attempt any one. The second question would carry three questions. The students would be required to attempt any two. Each question would carry two marks. (6+2x2=10 marks)

B. Sc. (Eco.) (Semester–I)
Session 2018-19
Course Code: BECM -1333 (I)
Course Title : Mathematics (Algebra)

Time: 3 hrs.   **Max. Marks: 50**
                                                                            Theory: 40
                                                                            CA: 10

Instructions for the Paper Setter:
Eight questions of equal marks are to be set, two in each of the four Sections (A-D). Questions of Sections A-D should be set from Units I-IV of the syllabus respectively. Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.
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Unit–I
Linear independence of row and column vectors. Row rank, Column rank of a matrix, Equivalence of column and row ranks, Nullity of matrix, Applications of matrices to a system of linear (both homogeneous and non–homogeneous) equations. Theorems on consistency of a system of linear equations.

Unit-II
Eigen values, Eigen vectors, minimal and the characteristic equation of a matrix. Cayley Hamilton theorem and its use in finding inverse of a matrix. Quadratic Forms, quadratic form as a product of matrices. The set of quadratic forms over a field.

Unit–III
Congruence of quadratic forms and matrices. Congruent transformations of matrices. Elementary congruent transformations. Congruent reduction of a symmetric matrix. Matrix Congruence of skew–symmetric matrices. Reduction in the real field. Classification of real quadratic forms in variables. Definite, semi–definite and indefinite real quadratic forms. Characteristic properties of definite, semi–definite and indefinite forms.

Unit-IV
Relations between the roots and coefficients of general polynomial equation in one variable. Transformation of equations and symmetric function of roots, Descarte's rule of signs, Newton's Method of divisors, Solution of cubic equations by Cardon method, Solution of biquadratic equations by Descarte's and Ferrari's Methods.

Books Recommended:

1. K.B. Dutta: Matrix and Linear Algebra, Prentice Hall of India Pvt. Ltd., New Delhi (2002).
2. H.S. Hall and S.R. Knight: Higher Algebra, H.M. Publications, 1994.
3. Chandrika Parsad: Text book on Algebra and Theory of Equations, Pothishala Pvt. Ltd., Allahabad.
4. S.L. Loney: Plane Trigonometry Part–II, Macmillan and Company, London.
5. Shanti Narayan and P.K. Mittal : Text Book of Matrices.

B. Sc. (Eco.) (Semester–I)
Session 2018-19
Course Code: BECM -1333 (II)
Course Title : Mathematics (Calculus And Trigonometry)

Time : 3 hrs.   **Max. Marks: 50**
Theory: 40
CA: 10

Instructions for the Paper Setter:
Eight questions of equal marks are to be set, two in each of the four Sections (A-D). Questions of Sections A-D should be set from Units I-IV of the syllabus respectively. Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.

Unit–I

Real number system and its properties, lub, glb of sets of real numbers, limit of a function, Basic properties of limits, Continuous functions and classification of discontinuities, Uniform continuities.

Unit-II

Differentiation of hyperbolic functions, Successive differentiation, Leibnitz theorem, Taylor's and Maclaurin's theorem with various forms of remainders, Indeterminate forms.

Unit-III

De–Moivre's Theorem and its applications, circular and hyperbolic functions and their inverses.

Unit-IV

Exponential and Logarithmic function of a complex numbers, Expansion of trigonometric functions, Gregory's series, Summation of series.

Books Recommended:

1. N. Piskunov: Differential and Integral Calculus, Peace Publishers, Moscow.

2. Gorakh Prasad: Differential Calculus, Pothishala Pvt. Ltd., Allahabad.

3. Erwin Kreyszig: Advanced Engineering Mathematics, John Wiley and Sons, 1999.

B. Sc. (Eco.) (Semester –I)
Session 2018-19
Course Code: BECL-1453
Course Title: Quantitative Techniques (Quantitative Techniques–I)

Time: 3 Hours   **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setters:
   Eight questions of equal marks are to be set, two in each of the four Sections (A-D). Questions of Sections A-D should be set from Units I-IV of the syllabus respectively. Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.

UNIT–I
Solution of Linear Equations: Solution of Simultaneous Linear Equations (upto two variable case), Application of Linear Equation in Economics; Solution of Quadratic Equations.Series: Arithmetic Progression Series, Geometric Progression Series and their applications in economics.

UNIT–II
Elements of Analytical Geometry: Straight line; Basic concepts of trigonometry(with formulae); Concepts of combination and permutation, Elements of set theory, union, intersection, difference, symmetric difference, complementation, Venn diagrams.

UNIT–III
Difference between a constant and a variable, concept of functions, classifications of functions, graph of linear and quadratic functions (Economic applications).
Limits and continuity of a function. Concept of differentiation .

UNIT–IV
Derivatives of elementary functions excluding inverse trigonometric functions,,Rules of derivatives; functions of functions rule; derivatives of implicit functions, parametric functions, logarithmic differentiation (Application in Economics)

Books Recommended:

1. Monga, G.S.: Mathematics and Statistics for Economics.
2. Yamane, Taro: Mathematics for Economists.
3. Allen, R.G.D.: Mathematical Analysis for Economists.
4. Edward T Dowling: Introduction to Mathematical Economics.
5. Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York

B. Sc. (Eco.) (Semester –I)
Session 2018-19
Course Code: BECM-1134
Computer Science
Computer Fundamental & Pc Software
(Theory)

Time: 3+3 Hrs

Max Marks : 100
Theory   :   50
Practical :   30
CA   :   20

Instructions for Paper Setter -
Eight questions of equal marks are to set, two in each of the four sections (A-D). Questions of Sections A-D should be set from Units I-IV of the syllabus respectively. Questions may be divided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section.

UNIT–I

1. Introduction to computer and its uses: milestones in hardware and software. Batch oriented/Online/real time application.
2. Computer as a system: basic concepts: stored programs, functional units and their inter–relation: communication with the computer.
3. Data storage devices and media: primary storage: storage addressed, and capacity, type of memory: secondary storage; magnetic tape – data representation and R/W: magnetic disc, fixed & removable, data representation and R/W, floppy disc drives, Winchester disc drive, conventional disc drives, Data organization, Compact Disc.

UNIT -II
1. Input/Output devices: Key–tape/diskette devices, light pen mouse and joystick, source data automation (MICR, OMR, and OCR), screen assisted data entry; portable/hand held terminals for data collection, vision input system.
2. Printed output: Serial, line, page, printers; plotters, visual output; voice response units.

UNIT–III
Introduction to Windows based operating system and Desktop icons

UNIT–IV

Word Processing:

Introduction to Word Processing, Introduction to Parts of Word Window (Title Bar, Menu Bar, Tool Bar, The Ruler, Status Area), Page Setup, Creating New Documents, Saving Documents, Opening an Existing documents, insert a second document into an open document, Editing and

formatting in document, Headers and Footers, Spell Checking, Printing document, Creating a Table Using the Table Menu and table formatting, Borders and Shading, Templates and Wizards, Mail Merge

Presentation :
Introduction to Presentation software, elements, Templates, Wizards, Views, Exploring Menu, Working with Dialog Boxes, Adding Text, Adding Title, Moving Text Area, Resizing Text Boxes, Adding Art, Starting a New Slide, Starting Slide Show, Saving presentation; Printing Slides, Views (View slide sorter view, notes view, outlines view) Formatting and enhancing text formatting, Creating Graphs (displaying slide show and adding multi–media).

References:

1. R.K. Taxali: Introduction to Software Packages, Galgotia Publications.
2. MS–Office Compiled by SYBIX
3. MS–Office BPB Publications.
4. Introduction to Computers by P.K. Sinha
5. Windows Based Computer Courses by Gurvinder Singh & Rachpal Singh, Kalyani Publishers.

Practical based on Computer Fundamentals & PC Software

Windows, Word Processing and Presentation Software.

B. Sc. (Eco.) (Semester–I)
Session 2018-19
Course Code: BECM-1124
Computer Applications (Vocational)

Computer Fundamentals & Pc Software
(Theory)

Time: 3+3 Hrs

Max. Marks:100
Theory : 50
Practical : 30
CA : 20

Instructions for Paper Setter -
Eight questions of equal marks are to set, two in each of the four sections (A-D). Questions of Sections A-D should be set from Units I-IV of the syllabus respectively. Questions may be divided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section.

UNIT-I

1. Elements of a Computer System:
    1.1 What is a Computer?
    1.2 Evolution of Computers, their classification and limitations, Computer organization.
    1.3 Uses of Computers in modern society (e.g. Weather forecasting, Census, Oil Exploration, Speech Recognition, Banking, Publishing, Accounting, Research, etc.)
    1.4 Characteristics of Desktop
    1.5 Characteristics of Portables/Laptops
    1.6 Introduction to Hardware, Software, Operating System, Translators.

2. Input Output Devices:
    2.1 Input Devices and Functions
        * Keyboard and teletypewriter terminals
        * Joystick
        * Mouse
        * Light Pen
        * Magnetic Tapes and cassettes
        * Magnetic Disks
        * Floppy and Winchester Disks
        * Optical Marks Reader (OMR)
        * Optical Character Reader (OCR)
        * Magnetic Ink Character Reader (MICR)
        * Punched Cards

    2.2 **Output Devices and Functions:**
        a) Visual Display UNIT (Monitor), Pixel & resolution, Monitors Size, Monochrome & Color, VGA & SVGA
        b) Plotters
        c) Printers
        d) CTD

3. H/W Organization of a Desktop Computer:
    3.1 Introduction to hardware components
    3.2 C.P.U. Control units, ALU, Registers
    3.3 Instruction Characteristic and Instruction Cycle
    3.4 Memory
        a) RAM – Dynamic RAM, Static RAM
        b) ROM–PROM, EPROM, EEPROM
        c) Cache, Virtual, Extended and Expanded Memories
    3.5 Secondary Memory (Storage devices)
        a) Floppy Disk
        b) Hard Disk
        c) DAT
        d) Video or Optical Disk (CD ROM)
        e) CTD
     3.6 Moderns and its Types

UNIT -II

4. Basics of Windows OS:
    a) The Desktop, the Taskbar
    b) Start Menu
    c) Program, Document, Settings, Find, Help, Run, Shutdown
    d) About the My Computer Icon
    e) About the networking neighborhood Icon
    f) Recycle bin
    g) Folders–Creation and Definition
    h) New Rules for File Names
    i) Windows Explorer (Definition)
    j) Shortcut Icons with creation and definition

UNIT-III

MS–Word:

     Introduction to Word, Introduction to Parts of Word Window (Title Bar, Menu Bar, Tool Bar, The Ruler, Status Area), Page Setup, Creating New Documents, Saving Documents, Opening an Existing documents, insert a second document into an open document, Editing and formatting in document, Headers and Footers, Spell Checking, Printing document, Creating a Table Using the Table Menu and table formatting, Borders and Shading, Templates and Wizards, Mail Merge Drawing Objects, Using Frames to position Objects.

UNIT-IV

MS Power Point:

Introduction to MS Power point, Power point elements, Templates, Wizards, Views, Exploring Power Point Menu, Working with Dialog Boxes, Adding Text, Adding Title, Moving Text Area, Resizing Text Boxes, Adding Art, Starting a New Slide, Starting Slide Show, Saving presentation; Printing Slides, Views (View slide sorter view, notes view, outlines view) Formatting and enhancing text formatting, Creating Graphs (Displaying slide show and adding multi–media)

Text Books:
1. MS–Office Compiled by SYBIX
2. MS–Office BPB Publications.
3. Introduction to Computer by P.K. Sinha
4. Introduction to Information Technology by Anshuman Sharma

B. Sc. (Eco.) (Semester–I)
Session 2018-19
Course Code : BECM-1124
Computer Applications (Vocational)

Computer Fundamentals & Pc Software

(Practical)

Lab Based on Computer Fundamentals

B. Sc. (Eco.) (Semester–I)
Session 2018-19
Course Code: BECL-1175
MICROECONOMICS

Time: 3 Hours

Max. Marks: 100
Theory: 80
CA: 20

Note: Instructions for the Paper–Setters:
   Eight questions of equal marks are to be set, two in each of the four Sections (A-D). Questions of Sections A-D should be set from Units I-IV of the syllabus respectively. Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section

UNIT–I
Introductory: Definition of Economics, Nature and Scope of Microeconomics. Basic Concepts: Human wants, Utility and Satisifaction, Basic Economic Problems.
Demand Function; Supply Function, Price Determination, Elasticity of Demand – Price, Income and Cross, elasticity and their Measurement.
Utility Analysis: law of diminishing marginal utility and law of equi-marginal utility, Indifference Curve Analysis and Revealed Preference Analysis (Meaning and Equilibrium).

UNIT–II
Theory of Production and Costs: Concept of Production Function. Laws of Returns to Scale and Returns to Factor.
Cost: Traditional and modern cost Theory, Concepts and Costs curves in the short and in the long run. Revenue Curves and their relationship with elasticity of demand.

UNIT–III
Market forms: Perfect Competition; Assumptions, Price and output determination of firm and Industry in Short run and Long run; Monopoly: Assumptions and Equilibrium.
Monopolistic Competition: Assumptions and Equilibrium(except Group Equilibrium)..

UNIT–IV
Marginal Productivity Theory; Factor Pricing (with reference to labour) under Perfect Competition and Imperfect Competition, Modern Theory of Distribution.
Rent: Concept, Ricardian Theory and Modern Theory of Rent.
Interest: Concept of interest; classical theory, lonable funds theory.
Profit: Concept of profit; Risk and uncertainity theories.

Books Recommended:
1. R.G. Lipsey: Introduction to positive economics, EL BS, London, 1969.
2. Stonier & Hague: A Text book of Economics Theory, 9th ed., ELBS, London, 1973.
3. Paul Samuelson: Economics, Mcgraw Hill, Kogakushad, Tokyo, 1973.
4. N.C. Ray: Microeconomic Theory, Macmillan, Delhi, 1975.
5. D. Salvatore: Microeconomics.
6. Koutsoyiannis: Modern microeconomics.

B. Sc. (Eco.)
Semester – I
Session 2018-19
Course Code: AECD-1161
Drug Abuse: Problem, Management and Prevention (COMPULSORY PAPER)
PROBLEM OF DRUG ABUSE

Time:3 Hrs   **Max. Marks: 50**
                                                          Theory: 40
                                                          CA: 10

Instructions for the Paper Setter

Eight questions of equal marks are to be set, two in each of the four Sections (A-D). Questions of Sections A-D should be set from Units I-IV of the syllabus respectively. Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.

UNIT-I
1) **Meaning of Drug Abuse**: Meaning, Nature and Extent of Drug Abuse in India and Punjab.

UNIT-II
2) **Consequences of Drug Abuse for**:
   Individual : Education, Employment, Income.Family : Violence.
   Society : Crime
   Nation : Law and Order problem.

UNIT-III
3) **Management of Drug Abuse**
Medical management : medication for treatment and to withdrawal effects.

UNIT-IV
4) **Psychiatric Management**: Counselling, Behavioural and Cognitive therapy. Social Management: Family, Group therapy and Environmental Intervention.

References:

1. Ahuja, Ram (2003), *Social Problems in India*, Rawat Publication, Jaipur.
2. Extent, Pattern and Trend of Drug Use in India, Ministry of Social Justice andEmpowerment, Government of India, 2004.
3. Inciardi, J.A. 1981. *The Drug Crime Connection.* Beverly Hills: Sage Publications.
4. Kapoor. T. (1985) *Drug epidemic among Indian Youth*, New Delhi: Mittal Pub.
5. Modi, Ishwar and Modi, Shalini (1997) *Drugs: Addiction and Prevention*, Jaipur: RawatPublication.
6. National Household Survey of Alcohol and Drug abuse. (2003) New Delhi, ClinicalEpidemiological Unit, All India Institute of Medical Sciences, 2004.
7. Sain, Bhim 1991, *Drug Addiction Alcoholism,* Smoking obscenity New Delhi: MittalPublications.

8. Sandhu, Ranvinder Singh, 2009, *Drug Addiction in Punjab*: A Sociological Study.Amritsar: Guru Nanak Dev University.
9. Singh, Chandra Paul 2000. *Alcohol and Dependence among Industrial Workers*: Delhi: Shipra.
10. Sussman, S and Ames, S.L. (2008). *Drug Abuse: Concepts, Prevention and Cessation,* Cambridge University Press.

**Bachelor of Science
(Economics)(Semester–I)
Session: 2018 -19
Course Title**: Foundation Course
Course Duration: 30 hours
Course intended for: Semester I students of undergraduate degree programmesof all streams.
Course Credits: 1

Course Code: SECF-1492

PURPOSE & AIM

This course has been designed to strengthen the intellectual foundation of all thenew entrants in the college. One of the most common factors found in the students seeking admission in college after high school is the lack of an overall view of human history, knowledge of global issues, peaks of human intellect, social/political benchmarks and inventors & discoverers who have impacted human life. For a student, the process of transformation from school to college is full of apprehension and intimidation of the system. The Foundation Programme intends to bridge the gap between high school and college education and develop an intellectual readiness and base for acquiring higher education.

INSTRUCTIONAL OBJECTIVES

• to enable the students to realise their position in the whole saga of time andspace

• to inculcate in them an appreciation of life, cultures and people across theglobe

• to promote, in the students, an awareness of human intellectual history

• to make them responsible and humane world citizens so that they can carry forward the rich legacy of humanity

CURRICULUM

MODULE	TITLE	CONTACT HOURS
I	**Introduction & Initial Assessment**	**2**
II	**The Human Story**	**3**
III	***The Vedas*, *The Gita* & Eastern Philosophy**	**2.5**
IV	***The Holy Bible* & Genesis**	**2.5**
V	**Woman: A Journey through the Ages**	**2.5**
VI	**Changing Paradigms in Society, Religion & Literature**	**2.5**
VII	**Makers of Modern India**	**2.5**
VIII	**Racism & Martin Luther King Jr.**	**2.5**
IX	**Modern World at a Glance: Political & Economic Perspective**	**2.5**
X	**Technology & Human Life**	**2.5**
XI	**The KMV Experience**	**2.5**
XII	**Final Assessment, Feedback & Closure**	**2.5**

EXAMINATION
- Total Marks: 25 (Final Exam: 20; Internal Assessment: 5)
- Final Exam: multiple choice quiz. Marks – 20; Time: 1 hour

Internal Assessment: 5 (Assessment: 3; Attendance:2)

Comparative assessment questions (medium length) in the beginning andclose of the programme. Marks: 3; Time: 0.5 hour each at the beginning and end.

- Total marks: 25 converted to grade for final result
- Grading system: 90% marks & above: A grade

80% - 89% marks : B grade
70% - 79% marks : C grade
60% - 69% marks : D grade
50% - 59% marks : E grade
Below 50% marks : F grade (Fail - must give the exam again)

SYLLABUS

Module I Being a Human: Introduction & Initial Assessment
- Introduction to the programme
    - Initial Assessment of the students through written answers to a couple of questions

Module 2 The Human Story
- Comprehensive overview of human intellectual growth right from the birth of human history
    - The wisdom of the Ancients
    - Dark Middle Ages
    - Revolutionary Renaissance
    - Progressive modern time
    - Most momentous turning points, inventions and discoveries

Module 3 *The Vedas*, *The Gita* & The Indian Philosophy
    - Origin, teachings and significance of *The Vedas*
    - Upnishads and Puranas
    - Karma Theory of *The Bhagwad Gita*
    - Main tenets of Buddhism & Jainism
    - Teachings of Guru Granth Sahib

Module 4 *The Holy Bible* & Genesis
- Book of Genesis: Creation and Fall

- Noah's Ark
  - Moses &The Ten Commandments
  - Christ and His teachings
  - Christianity and the world

Module 5 Changing Paradigms in Society, Religion & Literature
- Renaissance: The Age of Rebirth
  - Transformation in human thought
  - Importance of humanism
  - Geocentricism to heliocentricism
  - Copernicus, Galileo, Columbus, Darwin and Saint Joan
  - Empathy and Compassion

Module 6 Woman: A Journey through the Ages
- Status of women in pre-vedic times
- Women in ancient Greek and Roman civilizations
- Women in vedic and ancient India
- Status of women in the Muslim world
- Women in the modern world
- Crimes against women
- Women labour workforce participation
- Women in politics
- Status of women- our dream

Module 7 Makers of Modern India
- Early engagement of foreigners with India
- Education: The first step to modernization
- Railways: The lifeline of India
- Raja Ram Mohan Roy, Gandhi, Nehru, Vivekanand, Sardar Patel etc.
- Indira Gandhi, Mother Teresa, Homai Vyarawala etc.
- The Way Ahead

Module 8 Racism: Story of the West
- European beginnings of racism
- Racism in the USA - Jim Crow Laws
- Martin Luther King Jr. and the battle against racism
- Apartheid and Nelson Mandela
- Changing face of racism in the modern world

Module 9 Modern World at A Glance: Political & Economic Perspective
- Changing world order
- World War I & II
- UNO and The Commonwealth
- Nuclear Powers; Terrorism
- Economic Scenario: IMF, World Bank
- International Regional Economic Integration

Module 10 Technology and Human Life
- Impact of technology on modern life
- Technological gadgets and their role in our lives
- Technology and environment
- Consumerism and materialism
- Psychological and emotional consequences of technology
- Harmonising technology with ethics and humaneness

Module 11 The KMV Experience
- Historical Legacy of KMV
- Pioneering role in women emancipation and empowerment
- KMV Contribution in the Indian Freedom Struggle
- Moral, cultural and intellectual heritage of KMV
- Landmark achievements
- Innovative initiatives; international endeavours
- Vision, mission and focus
- Conduct guidelines for students

Module 12 Final Assessment, Feedback & Closure
- Final multiple choice quiz
- Assessment through the same questions asked in the beginning
- Feedback about the programme from the students
- Closure of the programme

PRESCRIBED READING

- ***The Human Story*** published by Dawn Publications

B. Sc. (Eco.) (Semester –II)
Session 2018-19
Course Code : BECL-2421
(Compulsory)
gzikpਹ (bkiawh)

;wਕ L 3 ਖN

Max. Marks: 50
Theory: 40
CA: 10

nze tzv ns/ gohfyne bJh jdਕfJsK

1.   gqpB gso d uko Gkr j'Dr/. jo Gkr ftu d gqpB g[S ਿkDr/.
2.   ftfdnkoEਹ B e[b gzi gqpB eoB jB. jo Gkr ftu'A fJe gqpB bkIwh j?. gzitK gqpB fe;/ th Gkr ftu'A ehsk ਿk ;edਕ j?.
3.   jo/e gqpB d 8 nze jB.
4.   g/go ;?N eoB tkbਕ ਿ/eo ukj/ sK gqpBਕ dh tzv nਗਕ tX ;'A tX uko T[g gqpBਕ ftu eo ;edਕ j?.

gkm eqw ns gkm g[;seK

<h2 style="text-align:center">ਂੈਕਸ਼ਨ - ਏ</h2>

d ozr (ejkDਹ Gkr) (;zgk. jofਿdo f;zx fYb'A ns/ gqhsw f;zx ;or'Xhnk),r[o BkBe
 d/t h{Bhtof;Nh, nzfwqs;o.
(ਹਵਸ਼ਾ-ਵਂਤੁ/ਂੋਰ/ਲੇਖਕ ਦਾ ਜੀਵਨ ਤੇ ਰਚਨਾ)

<h2 style="text-align:center">ਂੈਕਸ਼ਨ - ਬੀ</h2>

;z;ko dਹnK gqf;X j;shnK (ਿਹtBਹ Bzਿ 10 ;'A18 se)(;zgk. fਗਗz. t/ik f;zਖ, joBkw f;zx
Pkw),
gzikph ;kfjਜ gqekPB, nzfwqs;o.
(ਹਵਸ਼ਂ/ਂੋਰ/ਨਂਗਿਕ ਗਬੰਬ)

<h2 style="text-align:center">ਂੈਕਸ਼ਨ - ਂੀ</h2>

(T)   Ppd pDso ns/ Ppd ouBਕ L gfoGkPk, w[Yb/ ;ebਗ.
(n)   Ppd Pq/DhnK

<h2 style="text-align:center">ਂੈਕਸ਼ਨ - ਡੀ</h2>

(T)   d|soਹ fuमh gso
(n)   w[jkto/ ns/ nykD

B. Sc. (Eco.) (Semester –II)
Session 2018-19
Course Code: BECL-2031
w[ZYbh gzikph
(In lieu of Compulsory Punjabi)

;**w**K**: 3 xzN**

	Max. Marks:	50
	Theory:	40
	CA:	10

nze tzv ns/ gohfyne bJh jdkfJs**K**

1.   gqPB gso d uko Gkr j'Dr/. jo Gkr ftu d gqPB g[S **i**kDr/.
2.   ftfdnkoEh B e[b gzi gqPB eoB jB. jo Gkr ftu'_ fJe gqPB bkIwh j?.gz**i**tK
      gqPB fe;/ th Gkr ftu'A ehsk **i**k ;edk j?.
3.   jo/e gqPB d 08 nze jB.
4.   g/go ;?N eoB tkbk **i**/eo ukj/ sK gqPB**K** dh tzv **nr**] tX s'A tX uko TggqPB**K** ftu eo
      ;edk j?.

gkm eqw

;?ePB J/
Ppd P/qDhnK L gSkD ns/ tos'A (BKt, gVBKt, fefonk, ftP/PD, fefonk ftP/PD, ;pzXe,
h'ie ns/ ft;fwe)   08 nze

;?ePB ph
gzikph tke pDso L w[Ybh **i**kD gSkD
(T) ;kXkoB tke, ;zh[es tke ns/ fwPos tke (gSkD ns/ **i**os'A)
(n) fpnkBhnk tke, gqPBtkue tke ns/ j[ewh tke (gSkD ns/ tos'A)   08 nze

;?ePB ;h
g?oQk ouBk
;zy/g ouBk   08 nze

;?ePB vh
fumh gso (xo/**b**[ns/ d|soh)
nykD ns/ w[jkto/   08 nze

B. Sc. (Eco.) (Semester –II)
Session 2018-19 Course Code:
BECL-2431
Punjab History & Culture (C 321 to 1000 A.D.)(Special
Paper in lieu of Punjabi compulsory)

Time: 3 Hours   Max. Marks: 50
Theory: 40
CA: 10

Instructions for the Paper Setters

Question paper shall consist of four Units. Candidates shall attempt 5 questions in all, by at least selecting One Question from each unit and the 5th question may be attempted from any of the four sections. Each question will carry 8 marks.

Unit-I
1. Punjab under Chandragupta Maurya and Ashoka.
2. The Kushans and their Contribution to the Punjab.

Unit -II
3. The Panjab under the Gupta Emperor.
4. The Punjab under the Vardhana Emperors

Unit-III
5. Political Developments 17th Century to 1000 A.D. (Survey of Political)
6. Socio-cultural History of Punjab from 7th to 1000 A.D.

Unit -IV
7. Development of languages and Literature.
8. Development of art & Architecture

Suggested Readings
1. L. Joshi (ed): *History and Culture of the Punjab*, Art-I, Patiala, 1989 (3rd edition)
2. L.M. Joshi and Fauja Singh (ed); *History of Punjab* , Vol.I, Patiala 1977.
3. Budha Parkash : *Glimpses of Ancient Punjab*, Patiala, 1983.
4. B.N. Sharma: *Life in Northern India*, Delhi. 1966.

English (Compulsory)

Time: 3 Hours   **Max. Marks: 50**
Theory: 40
CA: 10

Texts Prescribed:

1. *Tales of Life* (Guru Nanak Dev University, Amritsar) Stories at Sr. No. 7, 9, 10, 11, 12
2. *Prose for Young Learners* (Guru Nanak Dev University, Amritsar) Essays at Sr. No. 7, 8, 9,10, 11
3. *English Grammar in Use* (Fourth Edition) by Raymond Murphy, CUP (Units: 49-97)

The syllabus is divided in four sections as mentioned below.
Section-A: English Grammar in Use, 4th Edition by Raymond Murphy, CUP (Units: 49-81)
Section-B: Personal letter Writing and English Grammar in Use (Units: 82-97)
Section-C: Tales of Life (Guru Nanak Dev University, Amritsar) 7, 9, 10, 11, 12
Section-D: Prose for Young Learners (Fourth Edition) by Raymond Murphy, CUP 7, 8, 9, 10and 11

Instructions for the Paper-Setter and Distribution of Marks:
The question paper will consist of four sections and distribution of marks will be as under: The question paper will be divided into four sections.
Section-A: The question will be set from Section-A of the syllabus. Fourteen sentences would be set and the students would be required to attempt any ten. Each sentence would carry one mark. (1x10=10 marks)
Section-B: Two questions will be set from Section-B of the syllabus. The students would be required to attempt one personal letter out of the given two. It would carry five marks. The second question will be based on grammar. The students will be required to attempt any five sentences out of eight and each sentence will carry one mark. (2x5=10 marks)
Section-C: Two questions will be set from Section-C of the syllabus. One essay type question with internal choice would be set, which carries six marks. The students would be required to attempt any one. The second question would carry three questions. The students would be required to attempt any two. Each question would carry two marks. (6+2x2=10 marks)
Section-D: Two questions will be set from Section-D of the syllabus. One essay type question with internal choice would be set, which carries six marks. The students would be required to attempt any one. The second question would carry three questions. The students would be required to attempt any two. Each question would carry two marks. (6+2x2=10 marks)

Time: 3 hrs.   **Max. Marks: 50**
                                                                          Theory: 40
                                                                          CA: 10

Instructions for the Paper Setter: Eight questions of equal marks are to be set, two in each of the four Sections (A-D). Questions of Sections A-D should be set from Units I-IV of the syllabus respectively. Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.

Unit–I
 Asymptotes, Tests for concavity and convexity, Points of inflexion, Multiple Points, Curvature, Tracing of Curves (Cartesian and Parametric coordinates only).

Unit-II
Integration of hyperbolic functions. Reduction formulae. Definite integrals. Fundamental theorem of integral calculus. Quadrature, rectification.

Unit– III
Exact differential equations. First order and higher degree equations solvable for x,y,p. Clairaut's form and singular solutions. Geometrical meaning of a differential equation. Orthogonal trajectories.

Unit-IV
Linear differential equations with constant and variable coefficients. Variation of Parameters method, reduction method, series solutions of differential equations. Power series method, Bessel and Legendre equations (only series solution).

Books Recommended:
1. D.A. Murray: Introductory Course in Differential Equations. Orient Longman (India), 1967.
2. G.F. Simmons: Differential Equations, Tata McGraw Hill, 1972.
3. E.A. Codington: An Introduction to Ordinary Differential Equations, Prentice Hall of India, 1961.
4. Gorakh Prasad: Integral Calculus, Pothishala Pvt. Ltd., Allahabad.
5. Erwin Kreyszig: Advanced Engineering Mathematics, John Wiley and Sons, 1999. 52

B. Sc. (Eco.) (Semester –II)Session
2018-19
Course Code: BECM -2333 (II)
Course Title: Mathematics (Calculus)

Time : 3 hrs.   **Max. Marks: 50**
                                                                                                         Theory: 40
                                                                                                         CA: 10

Instructions for the Paper Setter: Eight questions of equal marks are to be set, two in each of the four Sections (A-D). Questions of Sections A-D should be set from Units I-IV of the syllabus respectively. Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.

Unit–I

Limit and Continuity of functions of two variables, Partial differentiation, Change of variables, Partial derivatives and differentiability of real–valued functions of two variables, Schwartz's and Young's Theorem, Statements of Inverse and implicit function theorems and applications.

Unit-II

Euler's theorem on homogeneous functions, Taylor's theorem for functions of two variables, Jacobians, Envelopes. Evolutes, Maxima, Minima and saddle points of functions of two variables.
Unit-III

Lagrange's undetermined multiplier method, Double and Triple Integrals, Change of variables., Applications to evaluation of areas, Volumes, Surfaces of solid of revolution, Change of order ofintegration in double integrals.
Unit-IV

Application to evaluation of area, volume, surface of solids of revolutions.

Books Recommended:
1. Narayan, S. and P.K. Mittal: Integral Calculus. Sultan Chand & Sons.
2. Kreyszig, E.: Advanced Engineering Mathematics.
3. Narayan S. and P.K. Mittal : Differential Calculus, Sultan Chand & Sons.

B. Sc. (Eco.) (Semester –II)Session
2018-19
Course Code: BECL-2453
QUANTITATIVE TECHNIQUES–II

Time: 3 Hours
Max. Marks: 100
Theory: 80
CA: 20

Note: Instructions for the Paper–Setters/Examiners:
Eight questions of equal marks are to be set, two in each of the four Sections (A-D). Questions of Sections A-D should be set from Units I-IV of the syllabus respectively. Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least onequestion from each section. The fifth question may be attempted from any Section
.

UNIT–I
Statistics: Definition, Scope in Economics, Significance, Limitations. Tabulation, Classificationand
Graphical representation of data (Pie Chart, Bar Diagram, Histogram, Frequency Polygon, Ogive Curve, etc.).

UNIT–II
Concepts and Measures of Central Tendency: Mean, Median and Mode; Concepts and Measures of Relative Dispersion; Concepts and Measures of Skewness and Kurtosis (Stress on numerical examples).

UNIT–III
Correlation Analysis: Introduction, Importance, Karl-Pearson's Coefficient of Correlation, Spearman's Rank Correlation Coefficient, Simple Regression Analysis; Difference betweenCorrelation and Regression, Lines of Regression, Properties of Correlation and Regression Cofficients (Stress on numerical examples).

UNIT–IV
Index Numbers: Concept of Index Number, Purpose Construction & Problems, Laspeyre,Paasche
and Fisher's Formulae, Tests of Consistency.
Analysis of Time Series: Definition, Components of Time Series, Measurement of Trend by different methods, Measurement of Seasonal Variations (through ratio to move average method);stress on examples.

Books Recommended:
1. Gupta, S.P.: Statistical Methods (1981).
2. Croxton, Cowden & Klein: Applied General Statistics (1973).
3. Ya-lun-chou: Statistical Analysis (1975)
4. Kapur and Sexena: Mathematical Statistics (1970)
5. Murry, R. Speigal: Theory and Problems of Statistics (1972).

B. Sc. (Eco.) (Semester –II)
Session 2018-19
Course Code: BECM-2134
Computer Science (Programming In C)(Theory)

Time: 3+3 Hrs

Max. Marks : 100
Theory :   50
Practical :   30
CA :   20

Instructions for Paper Setter -
Eight questions of equal marks are to set, two in each of the four sections (A-D). Questions of Sections A-D should be set from Units I-IV of the syllabus respectively. Questions may be divided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section.

UNIT–I
Data Representation, Introduction to Number Systems and Character Codes, Flow Charts, ProblemAnalysis, decision tables, pseudo codes and, algorithms.

UNIT–II
Programming Languages C:
Basics of C: Introduction to C, Applications and Advantages of C, Tokens, Types of Errors **DataTypes:** Basic & Derived Data Types, User Defined Data Types, Declaring and initializing variables.

Operators and Expressions: Types of operators (Unary, Binary, Ternary), Precedence and Associativity
Data I/O Functions: Types of I/O function, Formatted & Unformatted console I/O Functions

UNIT–III
Control Statements: Jumping, Branching and Looping–Entry controlled and exit controlled,Advantages/Disadvantages of loops, difference between for, while and do–while.
Arrays: Types of Arrays, One Dimensional and Two Dimensional Arrays.
Strings: Introduction to Strings and String functions, array of strings.

UNIT-IV
Functions: User Defined & Library Function, Function (Prototype, Declaration, Definition),Methods of passing arguments, local and global functions, Recursion.
Storage Classes: Introduction to various storage classes, scope and lifetime of a variable,Storage class specifiers (auto, register, static, extern), advantages and disadvantages.
Structure and Union: Introduction to structure and union, pointers with structure.

Books Suggested:

    (i)   Programming with C Languages C. Schaum Series.
    (ii)   Yashwant Kanitkar – Let Us C
    (iii)   C Programming by Stephen G Kochan
    (iv)   Balaguruswamy: "Programming in ANSI C".

B. Sc. (Eco.) (Semester –II)
Session 2018-19
Course Code: BECM-2134
Computer Science
PROGRAMMING IN C

(PRACTICAL)

Practical based on Programming in C.

B. Sc. (Eco.) (Semester –II)
Session 2018-19
Course Code: **BECM-2124**
Computer Applications (Vocational)
Programming Using C

Time: 3+3 Hrs   **Max. Marks : 100**
                                                                                                        Theory :   50
                                                                                                        Practical :   30
                                                                                                        CA :   20

Instructions for Paper Setter -
Eight questions of equal marks are to set, two in each of the four sections (A-D). Questions of Sections A-D should be set from Units I-IV of the syllabus respectively. Questions may be divided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any section.

UNIT-I
Data Representation, Flow Charts, Problem Analysis, Decision tables, Pseudo codes and Algorithms.
Programming Using C:
Basics of C: Introduction to C, Applications and Advantages of C, Tokens, Types of Errors
Data Types: Basic & Derived Data Types, User Defined Data Types, Declaring and initializing variables.

UNIT-II
Operators and expressions: Types of operators (Unary, Binary, Ternary), Precedence and Associativity
Data I/O Functions: Types of I/O function, Formatted & Unformatted console I/O Functions.**Control**
Statements: Jumping, Branching and Looping–Entry controlled and exit controlled,
Advantages/Disadvantages of loops, difference between for, while and do–while.

UNIT-III
Arrays: Types of Arrays, Advantages/Disadvantages of arrays. Insertion, Deletion, Searching and sortingoperations on arrays
Strings: Introduction to Strings and String functions, array of strings.

Functions: User Defined & Library Function, Function (Prototype, Declaration, Definition), Methods ofpassing arguments, local and global functions, Recursion.

UNIT-IV
Storage classes: Introduction to various storage classes, scope and lifetime of a variable, Storage classspecifiers (auto, register, static, extern), advantages and disadvantages.
Pointers: Introduction, Advantages/Uses of pointers, Limitations of pointers, Difference between void pointer and Null pointer, Pointer arithmetic, operators not allowed on pointers, Types of Pointer**,** PassingPointers to function, concept of pointer to pointer.
Structure and Union: Introduction to structure and union, pointers with structure**.**

References:
1. Programming in C by Schaum Outlines Series.
2. C Programming by Stephen G. Kochan.
3. Let Us C by Yashwant Kanitkar
4. Programming in ANSI C by Balaguruswamy

B. Sc. (Eco.) (Semester –II)
Session 2018-19
Course Code: **BECM-2124**
Computer Applications (Vocational)

LAB – I (PROGRAMMING USING C)
(PRACTICAL)

Lab based on **PROGRAMMING USING C**

B. Sc. (Eco.) (Semester –II)
Session 2018-19
Course Code: BECL-2175
INDIAN ECONOMY

Time: 3 Hours   **Max. Marks: 100**
                                                                                              Theory: 80
                                                                                              CA: 20

Note: Instructions for the Paper–Setters:
Eight questions of equal marks are to be set, two in each of the four Sections (A-D). Questions of Sections A-D should be set from Units I-IV of the syllabus respectively. Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section

UNIT–I
Nature of Indian Economy, Agriculture in India: Nature and Importance of Agriculture, Causes of Decline in Productivity, Sustainable Agricultural Growth. Green Revolution and New Agricultural Strategy, WTO and Indian Agriculture (Introductory).

UNIT–II
Industry: Performance and Problems of Industrial Development, Public Sector versus Private Sector, Role of Privatization, Role of MSME, Latest Industrial Policy.

UNIT–III
Foreign Trade: Direction and Composition of Exports and Imports Since 1991, Recent Foreign Trade Policy, Balance of Payment Problem. Foreign Capital and Multinational Corporations in India.

UNIT–IV
Features of Population Growth in India, Major Problems of the Economy – Inflation, Unemployment, Poverty and Inequality, Current Indian Tax Structure.
Planning- Objectives, Strategy, Evaluation of Planning in India. A Brief Idea of Objectives, Targets, Resources of the Latest Five Year Plan (Twelfth Five Year Plan).

Books Recommended:
1. Mishra and Puri: Indian Economy (Latest), Himalaya Publication House, Mumbai.
2. Rudder Dutt and Sundharam: Indian Economy (Latest), S. Sundharam Chand & Co. Ltd., NewDelhi.
3. Uma Kapila: Indian Economy Performance And Policies (18th edition), Academic Foundation..
4. A. N. Aggarwal : Indian Economy , Vikas Publications, Delhi, !975.
5. C.D. Wadhwa: Indian Economic Policy(1980), Tata McGraw Hill, Bombay, !973.

B. Sc. (Eco.) Semester – II
Session 2018-19
Course Code: AECD-2161
Drug Abuse: Problem, Management and Prevention (COMPULSORY PAPER)
PROBLEM OF DRUG ABUSE

Time: 3 Hrs
Max. Marks: 50
Theory: 40
CA: 10

Instructions for the Paper Setter

Eight questions of equal marks are to be set, two in each of the four Sections (A-D). Questions of Sections A-D should be set from Units I-IV of the syllabus respectively. Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each section. The fifth question may be attempted from any Section.

UNIT-I
Prevention of Drug abuse: Role of family: Parent child relationship, Family support, Supervision,Shaping values, Active Scrutiny.

UNIT-II
School: Counselling, Teacher as role-model. Parent-teacher-Health Professional Coordination,Random testing on students.

UNIT-III
Controlling Drug Abuse: Media: Restraint on advertisements of drugs, advertisements on bad effects ofdrugs, Publicity and media, Campaigns against drug abuse, Educational and awareness program

UNIT-IV
Legislation: NDPs act, Statutory warnings, Policing of Borders, Checking Supply/Smuggling of Drugs,Strict enforcement of laws, Time bound trials.

References:

1. Ahuja, Ram (2003), *Social Problems in India*, Rawat Publication, Jaipur.
2. Extent, Pattern and Trend of Drug Use in India, Ministry of Social Justice and Empowerment, Government of India, 2004.
3. Inciardi, J.A. 1981. *The Drug Crime Connection.* Beverly Hills: Sage Publications.
4. Kapoor. T. (1985) *Drug epidemic among Indian Youth*, New Delhi: Mittal Pub.
5. Modi, Ishwar and Modi, Shalini (1997) *Drugs: Addiction and Prevention*, Jaipur:Rawat Publication.
6. National Household Survey of Alcohol and Drug abuse. (2003) New Delhi, Clinical Epidemiological Unit, All India Institute of Medical Sciences, 2004.
7. Sain, Bhim 1991, *Drug Addiction Alcoholism,* Smoking obscenity New Delhi: Mittal Publications.
8. Sandhu, Ranvinder Singh, 2009, *Drug Addiction in Punjab*: A Sociological Study.Amritsar: Guru Nanak Dev University.
9. Singh, Chandra Paul 2000. *Alcohol and Dependence among Industrial Workers*:Delhi: Shipra.
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B.Sc. Economics (Semester – II)
Session 2018-19
Course Title: Moral Education Programme
Course Duration: 30 hrs

Course Intended for: II Sem students of all streams

Course Objectives:
1. To sensitize students about the role and importance of human values and ethicsinpersonal, social and professional life
2. .To enable students to understand and appreciate ethical concerns relevant tomodern lives.
3. To prepare a foundation for appearing in various competitive examinations.
4. To sensitize the students about the current issues and events of national andinternational importance
5. To highlight plausible implications of ethical human conduct , trustful andmutually fulfilling human behaviour and mutually enriching interaction withnature .

Course Contents:
 • Introduction to Moral Education
• Need , content and purpose
• Vedic values
• Character building

The Self and You
• Understanding the Self –Self-awareness, fighting the five evils
(lust, anger, attachment, ego and greed), Self growth. • Personal ethics
• Aspiration v/s ambition, self- seeking v/s selflessness
• Physical and mental health

The Family and You
• Importance of family- the basic unit of human interaction. • Generation gap
• Relationship with siblings and elders

The Society and You
• Social responsibility · Our rights and duties
• Civic sense
• Opposite sex relations
• Globalization and IT boom – cell phone menace
• Peer pressure
• Gender issues

The Nation and You
• International peace and brotherhood
• Saving the environment • Communal harmony, Tolerance, Understanding of Cultures
11.• Respect for Martyrs
12.• National Pride