A) Foundation Elective Courses

Students of all PG programmes under CBCS (w.e.f. 2016-17) are required to study one foundation elective course in 2nd semester for 2 years Programmes and in 4th Semester for 3 years Programmes. They may choose any one of the following courses (excluding the courses offered by the departments of their own subjects, if not stated otherwise).

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Nomenclature of the course</th>
<th>Course Code</th>
<th>Offered by the Department of</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Basics of Accounting</td>
<td>16COMF1</td>
<td>Commerce</td>
</tr>
<tr>
<td>2</td>
<td>Basics of E-Commerce</td>
<td>16COMF2</td>
<td>Commerce</td>
</tr>
<tr>
<td>3</td>
<td>Elements of Banking</td>
<td>16COMF3</td>
<td>Commerce</td>
</tr>
<tr>
<td>4</td>
<td>Computer Fundamentals</td>
<td>16CSAF1</td>
<td>Computer Science &amp; Application</td>
</tr>
<tr>
<td>5</td>
<td>Appreciation of Short Stories</td>
<td>16ENGF1</td>
<td>English &amp; Foreign Languages</td>
</tr>
<tr>
<td>6</td>
<td>Appreciation of Poetry &amp; Prose</td>
<td>16ENGF2</td>
<td>English &amp; Foreign Languages</td>
</tr>
<tr>
<td>7</td>
<td>Appreciation of Fiction</td>
<td>16ENGF3</td>
<td>English &amp; Foreign Languages</td>
</tr>
<tr>
<td>8</td>
<td>Appreciation of Drama</td>
<td>16ENGF4</td>
<td>English &amp; Foreign Languages</td>
</tr>
<tr>
<td>9</td>
<td>Moral Education</td>
<td>16GENF1</td>
<td>Genetics</td>
</tr>
<tr>
<td>10</td>
<td>Geography in Everyday Life</td>
<td>16GEOF1</td>
<td>Geography</td>
</tr>
<tr>
<td>11</td>
<td>Hindi language and Communication Skill</td>
<td>16HNDF1</td>
<td>Hindi</td>
</tr>
<tr>
<td>12</td>
<td>Entrepreneurship Development</td>
<td>16IMSF1</td>
<td>IMSAR</td>
</tr>
<tr>
<td>13</td>
<td>Communication and Soft Skills</td>
<td>16IMSF2</td>
<td>IMSAR</td>
</tr>
<tr>
<td>14</td>
<td>Media law</td>
<td>16LAWF1</td>
<td>Law</td>
</tr>
<tr>
<td>15</td>
<td>Appreciation of Indian Music</td>
<td>16MUSF1</td>
<td>Music</td>
</tr>
<tr>
<td>16</td>
<td>Psychology for Everyday Living</td>
<td>16PSYF1</td>
<td>Psychology</td>
</tr>
<tr>
<td>17</td>
<td>Electronics Engineering</td>
<td>16 ECE F1</td>
<td>UIET (Electronics &amp; Communication)</td>
</tr>
</tbody>
</table>
(Foundation Elective Paper)
Basics of Accounting
Paper Code: 16COMF1

Total Marks: 50
External Marks: 40
Internal Marks: 10

Time: 3 Hours
Credits = 02

Note: The examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of equal marks. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All questions shall carry equal marks

Unit-I

Meaning of Accounting, Accountancy and Book Keeping, Objectives of Accounting, Scope of Accounting, Types of Accounting, Limitations, Basic Accounting Terms, Double Entry System of Book Keeping, GAAP (Generally Accepted Accounting Principal), Basic accounting Equations

Unit-II

Journalizing: Classification of Accounts, Personal, Real and Nominal; Recording & posting of simple transactions only.

Unit-III


Unit-IV

Preparation of Trial Balance, Preparing the Financial Statements Trading Account, Profit and Loss Account and Balance Sheet of sole proprietary business (Without Adjustment).

Suggested Readings:

(Foundation Elective Paper)  
**Basics of E-Commerce**  
**Paper Code: 16COMF2**

**Total Marks:** 50  
**External Marks:** 40  
**Internal Marks:** 10  
**Time:** 3 Hours  
**Credits = 02**

**Note:** The examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of equal marks. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All questions shall carry equal marks.

**Unit-I**


**Unit-II**


**Unit-III**

Payment Technologies for E-Commerce: Online Bank, E-Payment Tools: E-Payment System, Intelligent Card, E-check, E-wallet, E-Cash

**Unit-IV**

Electronic Commerce: Influence on Marketing: Product, Physical Distribution, Price, Promotion, Marketing Communication, Common e-Marketing Tools
(Foundation Elective Paper)
Elements of Banking
Paper Code: 16COMF3

Total Marks: 50
External Marks: 40
Internal Marks: 10

Note: The examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of equal marks. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All questions shall carry equal marks

Unit-I

Introduction to Banking: Meaning, Concept, History of Banking, Business of Banking, Functions of Banking, Banker Customer Relationship, Recent Developments in Banking Industry: Corporate Banking, Retail Banking, International Banking, Rural Banking, Non-Banking Financial Intermediaries

Unit-II

Structure of Commercial Banks in India: Structure of Indian Banking System, Reserve Bank of India, Commercial Banks, Public Sector Banks, Private Sector Banks, Foreign Banks, Indian Banks vs. Foreign Banks.

Unit-III

Structure of Co-operative Banks in India: Co-operative Banks: Meaning, Definitions, Commercial vs. Co-operative Banks, Regional Rural Banks

Unit-IV

Structure of Apex Banking Institution in India: Meaning, Definitions, National Bank for Agriculture and Rural Development (NABARD), National Housing Bank (NHB), Small Industries Development Bank of India (SIDBI), Export Import Bank of India (EXIM Bank)
DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS
FOUNDATION COURSE
(16CSAF1)
COMPUTER FUNDAMENTALS

Total Marks: 50
External Marks: 40
Internal Marks: 10

Time: 3Hrs.

Note: Examiner will be required to set NINE questions in all. Question Number 1 will consist of total 8 parts (short-answer type questions) covering the entire syllabus and will carry 16 marks. In addition to the compulsory question there will be four units i.e. Unit-I to Unit-IV. Examiner will set two questions from each Unit of the syllabus and each question will carry 16 marks. Student will be required to attempt FIVE questions in all. Question Number 1 will be compulsory. In addition to compulsory question, student will have to attempt four more questions selecting one question from each Unit.

Unit-I


Number Systems and Codes: Introduction, Number Systems and its types, and inter-conversion of Number Systems; ASCII and EBCDIC codes.

Input and Output Devices: Concept of Input/Output, Types of Input Devices; Output Devices – Printers, Plotters and Monitors.

Unit-II

Memory and Storage Devices: Characteristics of memory systems, memory hierarchy, Types of Memory – RAM, ROM, etc.; Magnetic Disks, Magnetic Tapes, Optical Disks; Concept of Cache Memory and Virtual Memory.


Unit-III

Working with Office Tools:

Using Word Processing: Opening and Closing of documents, Text creation and Manipulation, Moving Around in a Document, Formatting of text, Table handling, Spell check, language setting and thesaurus, Handling Multiple Documents, Printing of word document.

Using Spreadsheet tool: Basics of Spreadsheet; Manipulation of cells, Formulas and Functions, Editing of Spread Sheet, Page setups, header and footer, printing of Spread Sheet.

Using Slide Presentation Tool: Basics of powerpoint, Preparation and Presentation of Slides, Slide Show, Formatting and Clip Arts, Taking printouts of presentation / handouts.
Unit-IV


Internet Basics: Concept of Internet, Application of Internet, WWW, Web-sites and URLs, Search Engine, Using Electronic mails, Instant Messaging, Web Browsing software, Surfing the Internet.


Suggested Readings:

4. V. Rajaraman: Fundamentals of Computers, PHI
5. Microsoft Office – Complete Reference – BPB Publication
Course Code: 16ENGF1
Nomenclature of the Course: Appreciation of Short Stories
Total Marks: 50
External Marks: 40
Internal Marks: 10
Total Credits: 2
Time: 3 hrs

Prescribed Texts
William Carlos Williams: “The Use of Force”
James Thurber: “The Catbird Seat”
Ernest Hemingway: “In Another Country”
John Henry Noyes Collier: “Wet Saturday”
Dylan Thomas: “The Enemies”


Instructions to the Paper-Setter:
In Question 1, students will be required to explain one passage, out of the two given, with reference to the context.

In Question 2, students will be required to answer any four questions, out of the given six, in about 150 words each.

Questions 3 and 4 will be essay type questions. Both these questions carry 10 marks each.

Suggested Reading:
Currie, Gregory. Narratives and Narrators.
Miller, J. Hillis. On Literature.
Nayar, Pramod. K. Studying Literature: An Introduction to Fiction and poetry.
Scholes, Robert, and H. Klaus and Michael Silverman. Elements of Literature.
Course Code: 16ENGF2
Nomenclature of the Course: Appreciation of Poetry and Prose
Total Marks: 50
External Marks: 40
Internal Marks: 10
Lectures 2
Total Credits: 2
Time: 3 hrs

Unit I

Poetry
Wallace Stevens: “The Emperor of Ice-Cream”
Thomas Hardy: “Last Words to a Dumb Friend”
Ben Jonson: “To the Memory of my Beloved, the Author, Mr. William Shakespeare”
William Shakespeare: “Sonnet 66”
Geoffrey Chaucer: “The Prioress” (From The Prologue)
Robert Browning: “My Last Duchess”

[Prescribed Book: Inside Poetry by James Reeves and Martin Seymour-Smith]

Unit II

Essays
Charles Lamb: “The Two Races of Men”
Virginia Woolf: “The Death of the Moth”
Frances Bacon: “Of Studies”
Joseph Addison: “Female Orators”
Samuel Johnson: “Singularities Censured” (Adventurer No. 131. Tuesday, February 5, 1754.)

[Prescribed Book: Elements of Literature by Robert Scholes, H. Klaus and Michael Silverman]

Instructions to the Paper-Setter:
In Question 1, students will be required to explain one passage with reference to the context.
There will be one passage from each Unit.

In Question 2, students will be required to answer any four questions in about 150 words each.
There will be three questions from each unit.

4 x 3 = 12

In Questions 3 and 4 based on Units I and II respectively, students will be required to attempt critical appreciations. Both these questions carry 10 marks each.
DEPARTMENT OF ENGLISH AND FOREIGN LANGUAGES
FOUNDATION COURSES
Even Semester

Course Code: 16ENGF3
Nomenclature of the Course: Appreciation of Fiction

Total Marks: 50
External Marks: 40
Internal Marks: 10
Time: 3 hrs

Prescribed Texts

**Unit I**
Leo Tolstoy: *The Death of Ivan Ilych.*


**Unit II**
D.H. Lawrence: *The Man Who Died*


**Instructions to the Paper-Setter:**
In Question 1, students will be required to answer any five questions in about 150 words each.
There will be four questions from each unit.

5 x 4 = 20

In Questions 2 and 3 based on Units I and II respectively, students will be required to attempt critical appreciations. Both these questions carry 10 marks each.

**Suggested Reading:**
Currie, Gregory. *Narratives and Narrators.*
Hudson, W.H. *An Introduction to The Study of English Literature.*
Nayar, Pramod. K. *Studying Literature: An Introduction to Fiction and Poetry.*
Scholes, Robert, and H. Klaus and Michael Silverman. *Elements of Literature.*
Course Code: 16ENGF4
Nomenclature of the Course: Appreciation of Drama
Total Marks: 50
External Marks: 40
Internal Marks: 10
Total Credits: 2
Time : 3 hrs
Prescribed Text

William Shakespeare:  The Tempest

Instructions to the Paper-Setter:

In Question 1, students will be required to explain one passage, out of the two given, with reference to the context.

In Question 2, students will be required to answer any four questions, out of the given six, in about 150 words each.

\[ 4 \times 3 = 12 \]

Questions 3 and 4 will be essay type questions. Both these questions carry 10 marks each.

Suggested Reading:


Kennedy, X.J. An Introduction to Fiction by X. J. Kennedy.

Viva Modern Critical Interpretations of Shakespeare’s The Tempest
Foundation course run by Department of Genetics.
(Foundation course)
MORAL EDUCATION

Paper Code: 16GENF1

Total Marks: 50
External Marks: 40
Internal Marks: 10

Time: 2.00 Hours

Instructions
There will be a total of five questions. Question No. 1 will be compulsory and shall contain eight to ten short answer type questions without any internal choice and it shall cover the entire syllabus. The remaining four questions will include two questions from each unit. The students will be required to attempt one question from each unit. The students will attempt three questions in all.

UNIT I

Guiding principles for life
Ethics
a. Guidelines set by society
b. Changes according time and place
Morals
c. Guidelines given by the conscience
d. Always constant
Ethics in the workplace
a. Respect for each other
b. Obedience to the organization
c. Dignity of labour
d. Excellence in action

UNIT II

Concept of Trusteeship
a. Everything belongs to society
b. Man is only a caretaker
c. Our responsibility to ensure welfare of all
Importance of service
a. Responsibility of an individual
b. Man is only a caretaker
c. Our responsibility to ensure welfare of all
Learning Objectives
With spatial turn in the other social sciences and humanities and cultural turn in geography the spatial structure has begun to be seen not merely as an arena in which social life unfolds but rather as a medium through which social relations are produced and reproduced. All this has strengthened geography as a multidisciplinary and interdisciplinary discipline. Geography deepens understanding of many contemporary issues and challenges - climate change, food security, energy choices – that cannot be understood without a geographical perspective. It serves vital educational goals: thinking and decision making with geography helps us to live our lives as knowledgeable citizens, aware of our own local communities in a global setting. What we need is a global sense of the local, a global sense of place.

Learning Outcome
On completion of the course a student should be able to understand how geography permeates each and every aspect that concerns our living on this earth. They would know how Geography can use its versatility and multi-factor approach, co-existence between physical and human aspects, construction of ideas around space which are politically and administratively relevant, to its best advantage.

Unit I
Geography and Environment; Geography and Social Sciences; Geography and Development; Geography and Planning

Unit II
Geography and Governance; Geography and Globalization; Geography and Disasters; Geography and Cartography

Note: (i) The question paper will have three units. First two units of question paper will contain two questions from each unit of the syllabus. Candidate(s) are required to attempt two questions in all selecting one from each unit. Unit III shall be compulsory and shall contain five short answer type questions covering entire syllabus in which candidates will be required to attempt any five out of eight questions. All questions carry equal marks.

(ii) Internal Assessment of 10 marks will be ‘Map Filling’ about the location of important places, landforms, and geographical features in India and the world. The unit three shall be compulsory and shall contain five short answer type questions covering entire syllabus.
**Recommended Readings**


Qkma
Ms'ku
fgUnh Hkk"kk ,oa
lEizs"k.k dkS'ky

16HNDF1

le; % 3 ?k.Vs

iw.kkZad % 50 vad
vkafjd ewY; kadu %
10 vad
fyf[kr ijh[kk % 40 vad

1¼d½ fgUnh
Hkk"kk

1- Hkk"kk dh ifjHkk"kk] izd`fr ,oa fofo/k :i
2- fgUnh Hkk"kk dh fo'ks"krk, j % laKk] loZuke] fo'ks"k.k fØ;k
,oa vO;; laca/khA
3- fgUnh dh o.kZ&O; oLFkk % Loj ,oa O;atuA
4- Loj ds izdkj & gzLo] nh?kZ rFkk lyqrA
5- O;atu ds izdkj % Li'kZ] vUrLFk] Å"e] vYiizk.k] egkizk.k]
=kks"k rFkk v=kks"kA
6- o.kksZa dk mPpkj.k LFkku % d.B~;] rkyO;] ew)ZU;] nUr;
vks"B~; rFkk nUrks"B~;A
7- cyk?kkr] laxe] vuqrku rFkk laf/kA
8- fgUnh okD; jpu kA okD; HksnA

1¼[k½ laizs"k.k dkS'ky

funsZ'k %&
1. laizs"k.k dh vo/kkJ
2. laizs"k.k ds izdkj
3. laizs"k.k ds ek;/e
4. Hkk"kk laizs"k.k ds pj.k % Jo.k] vfHkO;fDr] okpu rFkk ys[kuA
5. lk[kkRdkj] Hkk"k.dyk ,oa jpushRed ysk[kuA
6. HkkokFkZ vkSj O;k[:] vkk;k; ysk[ku] fofo/k izdkj ds i= ysk[kuA

[kaM d rFkk [k esa ls pkj&pkj iz'u iwNs tk,axsA jh{kkFkhZ dks izR;sd
[kaM ls nks&nks iz'uksa dk mUkJ nsuk gksxkA
izR;sd iz'u 20 vad dk gksxkA

ENTREPRENEURSHIP DEVELOPMENT
Course Code: 161MSF1

Total Marks: 50
External Marks: 40
Internal Marks: 10

Course Objective:
This course aims to acquaint the students with challenges of starting new ventures and enable them to investigate,
understand and internalize the process of setting up a business.

Unit-I
Entrepreneurship: Concept, knowledge and skills requirement; characteristics of successful entrepreneurs;
role of entrepreneurship in economic development; entrepreneurship process; factors impacting emergence of entrepreneurship

Unit-II
Starting the venture: generating business idea – sources of new ideas, methods of generating ideas,
opportunity recognition; environmental scanning, competitor and industry analysis; feasibility study – market feasibility, technical/operational feasibility, financial feasibility: drawing business plan

Unit-III
Functional plans: marketing plan – marketing research for the new venture, steps in preparing marketing plan, contingency planning; organizational plan – form of ownership, designing organization structure; financial plan – cash budget, working capital

Unit-IV
Sources of finance: debt or equity financing, commercial banks, venture capital; financial institutions
supporting entrepreneurs; legal issues – intellectual property rights patents, trademarks, copyrights, trade
secrets, licensing

Suggested Readings:
1. Hisrich, Robert D., Michael Peters and Dean Shepherded, Entrepreneurship, Tata McGraw Hill, New Delhi
3. Lall, Madhurima, and Shikha Sahai, Entrepreneurship, Excel Books, New Delhi
5. Pearson Education, New Delhi

Instructions for External Examiner: The question paper shall be divided in two sections. Section ‘A’ shall comprise of eight short answer type questions from whole of the syllabus carrying one mark each, which shall be compulsory. Answer to each question should not exceed 50 words normally. Section ‘B’ shall comprise 8 questions (2 questions from each unit). The students will be required to attempt four questions selecting one question from each unit. All questions will carry equal marks.
COMMUNICATION AND SOFT SKILLS
Course Code: 16IMSF2

Total Marks: 50
External Marks: 40
Internal Marks: 10

Time Allowed: 3 Hours

Course Objective:
The objective of this course is to expose the students to basic communication and soft skills and to familiarize them with behavioral skills and business etiquettes.

Unit - I
Communication Skills - Concept, characteristics and process of communication; 7C’s of communication; listening skills, verbal communication, non-verbal communication, body language, art of meeting and greeting, making effective conversation

Unit - II
Presentation Skills - Difference between speech and presentation, handling of presentation audience questions, holding meetings, group discussion and interviews; structuring a presentation, delivering the presentation; situational presentation

Unit - III
Behavioral Skills - Positive altitude, self-management, problem solving skills, time management skills, anger management, coping skills, assertiveness team building skills

Unit - IV
Business Etiquette - Business dress and grooming, office courtesies, etiquette for special occasions, meeting etiquette, dining etiquette

Suggested Readings:
2. Fox, She, Business Etiquette for Dummies, Wiley Publishing inc.
4. Sanghi, Seema, Towards Personal Excellence, Response Books, New Delhi

Instructions for External Examiner: The question paper shall be divided in two sections. Section ‘A’ shall comprise of eight short answer type questions from whole of the syllabus carrying two marks each, which shall be compulsory. Answer to each question should not exceed 50 words normally. Section ‘B’ shall comprise 8 questions (2 questions from each unit). The students will be required to attempt four questions selecting one question from each unit. All questions will carry equal marks.
LL.M. SECOND SEMESTER EXAMINATION
(Media Law)
16LAWF1

Total Marks: 50
External Marks: 40
Internal Marks: 10

Time Allowed: 3 Hours

The question paper of each course will be divided into two sections A & B. Section A consists of Eight Small answer type questions (without internal choice) carrying 3 marks each covering the entire syllabus. This section as such will be compulsory. Section-B shall again consist eight questions carrying 14 marks each covering the entire syllabus. However, the candidate shall be required to attempt any four questions from this section.

NOTE FOR STUDENTS
Attempt all questions in Section A and Four Questions from Section B. Each Question in Section A carries 3 marks and each question in Section B carries 14 marks.

Unit: I. Introduction: Evolution of Media; Types of media: Print, Electronic; E-Media free flow of Information beyond boundaries and barriers; Difference between Visual and non-Visual Media- impact on People

Unit: II. Freedom of Speech and Expression- Article 19 (1) (a): An Introduction to Freedom of expression; Evolution of Freedom of Press; Restrictions under Constitution: Article 19 (2), Government power to legislate0- Article 246 read with the Seventh Schedule.; Power to impose Tax- licensing and licence fee; Advertisement & Ethics: Misleading Advertisement vis-à-vis Consumers rights.

Unit: III. Law of defamation and obscenity: Defamation; Libel, Slander; Obscenity; Sedition

Unit: IV. Development of laws relating to Mass Media via a vis International regime: Censorship of films; Censorship under Constitution; Censorship under the Cinematograph Act; Pre- censorship of films.

Select Bibliography:

- M.P. Jam, Constitutional Law of India (1994) Wadawa, Nagpur
- Bruce Michael Boys, Film Censorship in India: A Reasonable Restriction on Freedom of Speech and Expression” 14 J.I.L.l 501 (1972)
- Soli Sorabjee, Law of Press Censorship in India (1976)
Semester-2 (Music)
Appreciation of Indian Music
16MUSF1

<table>
<thead>
<tr>
<th>Paper Code</th>
<th>Core</th>
<th>Nomenclature of Papers</th>
<th>Maximum Marks</th>
<th>Internal Assessment Marks</th>
<th>Total Marks</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>16MUSF1</td>
<td>Foundation Elective</td>
<td>Appreciation of Indian Music</td>
<td>40</td>
<td>10</td>
<td>50</td>
<td>2</td>
</tr>
</tbody>
</table>

Structure of LTP

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Tutorials</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

Unit-I

- The study of sound and concept of Naad/swar
- Brief history of Indian Music
- Study of Technical terms of Indian Music
- An introduction to Raga
  - Classification of Raga
  - Component/technical terms & structure of presentation of Raga

Unit-II

- Rhythm & Music
  - Laya & Taal
  - Writing of basic taalas-teental, ektal, rupak, jhaptal
- Writing an essay of 1000 words on relationship between Music and the subject belongs to you
- Music therapy and its impact on human body
- Different kind of compositional forms and their evolution
- Understanding music through Rag Mala painting
Department of Psychology
PAPER- (16PSYF1)

Psychology for Everyday Living

Credits : 2 (2Credit Theory: 2 hrs/week)

Total Marks: 50
External Marks: 40
Internal Marks: 10

Time Allowed: 3 Hours

Note:
a) Nine questions would be set in all. Candidates would be required to attempt five questions.
b) There would be two questions (8 marks each) from each of the four Units. Candidates would attempt one question from each Unit.
c) Question No. IX would be compulsory. It shall be based on the entire syllabus and would contain eight short answer questions of one marks each

Unit I

Science of Psychology: Definition, Goals, Basic and Applied areas of Psychology.

Unit II

Intelligence: Definition; Theories: Theory of multiple intelligences, Triarchic theory, Emotional Intelligence.
Administration: Any one test of Intelligence/Emotional Intelligence.

Unit III

Personality: Definition; Theories: Trait and Type: Eysenck; Psychoanalytical: Freud; Humanistic: Maslow.
Administration: Any one objective test of Personality.

Unit IV

Stress and Coping: Nature of Stress; Sources; Stress reactions; Factors that influence reactions to stress.
Coping with stress: Modifying environment; Altering lifestyle.

Recommended Books:
FOUNDATION ELECTIVE COURSE

16ECEF1 ELECTRONICS ENGINEERING

<table>
<thead>
<tr>
<th>Marks</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams</td>
<td>40</td>
</tr>
<tr>
<td>Sessionals</td>
<td>10</td>
</tr>
<tr>
<td>Total</td>
<td>50</td>
</tr>
<tr>
<td>Duration of Exam</td>
<td>3 hrs.</td>
</tr>
</tbody>
</table>

Instructions for setting of paper: Nine questions are to be set in total. First question will be short answer question covering whole syllabus and will be compulsory to attempt. Next eight questions will comprise of two questions each from the four sections. Student will be required to attempt four more questions selecting one from each section. Each question will be of 08 marks

UNIT 1

SEMICONDUCTOR DIODE : P-N junction and its V-I Characteristics, P-N junction as a rectifier, Switching characteristics of Diode. Diode as a circuit element, the load-line concept, half-wave and full wave rectifiers, clipping circuits, clamping circuits, filter circuits, peak to peak detector and voltage multiplier circuits.

UNIT 2

TRANSISTOR: Bipolar junction transistor : operation, characteristics, Ebers-moll model of transistor, CE, CB, CC configurations. TRANSISTOR BIASING : Operating point, bias stability, collector to base bias, self-bias, emitter bias, bias compensation, thermistor & sensistor compensation.

UNIT 3

FIELD EFFECT TRANSISTORS: Junction field effect transistor, pinch off voltage, volt-ampere characteristics, small signal model, MOSFET Enhancement & Depletion mode, V-MOSFET. Common source amplifier, source follower, biasing of FET, applications of FET as a voltage variable resistor (V V R).

UNIT 4

DIGITAL ELECTRONICS: Binary, Octal and Hexadecimal number system and conversions, Boolean Algebra, Truth tables of logic gates (AND, OR, NOT) NAND, NOR as universal gates, Difference between combinational circuits and sequential circuits, Introduction to flip-flops (S-R & J-K).

TEXT BOOK :
1. Integrated Electronics: Millman & Halkias ; McGrawHill

REFERENCE BOOKS:
1. Electronics Principles: Malvino ; McGrawHill
2. Electronics Circuits: Donald L. Schilling & Charles Belove ; McGrawHill