

Generic Elective Courses

(for Vth Semester UG 2019 Admission Onwards)

SYLLABUS

Sl No	Course Code and Name	Department
1	5D03 MAT : Linear Programming	Mathematics
2	5D04 PHY : Joy of Star Watching	Physics
3	5D03 CHE : Environmental Studies	Chemistry
4	5D01 BOT : Mushroom Cultivation	Botany
5	5D02 ZLG : Apiculture	Zoology
6	5D01 HSC : Applied Counselling	Home Science
7	5D04 ECO : Fundamentals of Budget	Economics
8	5D01 (2) ENG : Film Studies	English
9	5D02 HIS : India's Struggle for Freedom	History
10	5D02 MAL : Cyber Sahithyam	Malayalam
11	5D01 COM : Basic Accounting	Commerce
12	5D01 PED : Health and Physical Education	Physical Education

GENERIC ELECTIVE COURSE 3: LINEAR PROGRAMMING

SEMESTER	COURSE CODE	HOURS PER WEEK	CREDIT	EXAM HOURS	MARKS		
					END SEM EXAM	INTERNAL	TOTAL
V	5D03 MAT	2	2	2	20	5	25

COURSE OUTCOMES

CO1	Understand General linear programming problem – canonical and standard forms of L.P.P, Solutions and fundamental properties of solutions of LPP.
CO2	Understand Graphical solution method, Simplex method, Duality in linear programming, Formulating a dual problem.
CO3	Understand General transportation problem, the transportation tables, Loops in transportation table and solves transportation problem
CO4	Understand Degeneracy in transportation problem, Transportation algorithm (MODI method) and solves problems

5D03 MAT: Linear Programming

Unit I - Linear programming (20 hours)

Formulation of LPP from daily life situations (simple cases only and there should not be any question from this topic in the End Semester Examination). General linear programming problem – canonical and standard forms of L.P.P, Graphical solution method, Simplex method. (Sections 2.1, 2.2, relevant topics from 2.3 and 2.4, 3.2, 3.4, 3.5, 4.1, 4.3 of the Text. Proofs of all theorems are omitted).

Unit II - Transportation problems (16 hours)

General transportation problem, the transportation tables, Loops in transportation table, Solution of a transportation problem, Finding an initial basic feasible solution, Degeneracy in transportation problem, Transportation algorithm (MODI method). (Sections 10.1, 10.2, 10.5, 10.6, 10.9, 10.12, 10.13 of the Text. Proofs of all theorems are omitted)

Text

K. Swarup, P.K. Gupta and M. Mohan, Operations Research (18th edition), Sulthan Chand and Sons.

References

1. J. K. Sharma, Operations Research Theory and Applications. McMillan
2. G. Hadley, Linear Programming, Oxford & IBH Publishing Company
3. H. A. Thaha, Operations Research, An Introduction (8th edition), Prentice Hall

Marks including choice

Unit	Marks in End Semester Examination	
	Aggregate Marks	Maximum Marks
I	17	20
II	16	
Total	33	

Pattern of Question Paper

- Part A - Short answer** (5 questions x Mark 1 each = 5)
- *Answer any 4 questions* (4 questions x Mark 1 each = 4)
- Part B - Short Essay** (10 questions x Marks 2 each = 20)
- *Answer any 6 questions* (6 questions x Marks 2 each=12)
- Part C - Essay** (2 questions x Marks 4 each = 8)
- *Answer any 1 question* (1question x Marks 4 each=4).
- **Use of Scientific Calculators below 100 functions (that is, upto fx 99) shall be permitted for this courses.**

5 D 04 PHY:JOY OF STAR WATCHING

SEMESTER	COURSE CODE	HOURS PER WEEK	CREDIT	EXAM HRS
V	5 D 04 PHY	2	2	2

COURSE OUTCOME

CO 1: Understand Our Universe and its origin

CO2: Understand simple constellations

CO3: Explain the stars in Kerala culture

CO4: Understand the techniques of star watching

Unit I: Astrophysics

12Hrs

The study of the Universe - Problems and prospects. The Universe - its origin-
_Galaxies__Milkyway. A star is born. The death of a star. The comets—The pole star

(Book 1)

Unit II: The constellations

2 Hrs

Orion- Canis major-Taurus—Leo

(Book 2)

Unit III Stars in Kerala culture

10Hrs

The origin and expansion of Astrology -Stars and constellations in Kerala culture-

(Book 2)

Unit IV: Star watching

8 Hrs

How to experience star watching — For a better view

(Book 2)

Books for study:

1. The Great Universe- G.K.Sasidharan- S.Chand
2. Joy of star watching – BimanBasu- National Book Trust , India.

Book for reference:

1. Jyothishavum Jyothisasthravum- K. Pappooty-K.S.S.P

MARKS INCLUDING CHOICE:

Unit	Marks
I	8
II	5
III	8
IV	9

PATTERN OF QUESTIONS

Part A	Short answer	(6 questions x Mark 1 = 6)
	Answer all questions	(6 questions x Mark 1 = 6)
Part B	Short Essay	(6 questions x Marks 2 each =12)
	Answer any 6 questions	(4questions x Marks 2 each=8)
Part C	Essay	(2questions x Marks 6 each =12
	Answer any 4 questions	(1question x Marks 6 each=6)
<ul style="list-style-type: none">• Total marks including choice -30• Maximum marks of the course-20		

GENERIC ELECTIVE COURSE

Environmental Studies (5D03CHE/PCH)

Contact hours: 36Hrs

UNIT1. Environmental segments (6 Hours)

Environmental segments – Lithosphere: soil formation – components of soils. Hydrosphere: Hydrological cycle- Biosphere - Atmosphere- Structure and composition

UNIT 2. Air Pollution (9 Hours)

Types of pollutants, Air pollution –Sources – pollutants –CO, NO_x, SO_x, Hydrocarbons, Particulates. Effect on ecosystem., Ozone layer –importance, Ozone depletion -Control measures- Acid rain - control of acid rain- Greenhouse effect- global warming, photochemical smog (Eqns not needed)- effect pollution on plants and human beings. Control of air pollution Noise Pollution – physiological response to noise – biological effects- carbon foot print

UNIT 3. Water Pollution (7 Hours)

Water Pollution – Sources –Industrial effluents- agriculture discharge - oil spills, heavy metal -pesticides-bio magnifications and bioaccumulations, Dissolved oxygen in water, chemical oxygen demand (COD) and Biochemical Oxygen demand (BOD)(Definition only)- control of water pollution- ISI/BIS standards of drinking water

UNIT 4. Soil Pollution (8 Hours)

Soil Pollution - Sources by industrial and urban wastes, radioactive pollutants, plastics heavy metals. Poisoning by heavy metals – Mina- math & Itai-Itai diseases. Control of soil pollution. Solid waste Management -Thermal pollution, definition- sources of thermal pollution, harmful effect of thermal pollution, prevention of thermal pollution.

UNIT 5. Sustainable Energy Sources & Technology (6 Hours)

Green energy Sources- Wind-water-solar– use of solar energy in space, Production of electricity using solar energy- Tidal, Biomass and geothermal energy

References:

1. Text book of Environmental Studies for under graduate courses – ErachBhar
2. Essential Environmental studies- S. P. Misra – S. N. Pandey
3. Environmental chemistry and pollution control – S.S Dara (2nd Edition)
4. Environmental chemistry- Peter O' Neill
5. Environmental chemistry – B.K. Sharma
6. Fundamental concepts of environmental chemistry – G.S Sodhi

**CHOICE BASED CREDIT AND SEMESTER SYSTEM OUTCOME BASED
EDUCATION (2019 ADMISSION ONWARDS)**

**FIFTH SEMESTER DEGREE PROGRAMME – GENERIC
ELECTIVE COURSE IN BOTANY**

GEC IN BOTANY-1- 5D01BOT - MUSHROOM CULTIVATION

SYLLABUS

Module 1. Mycology.

5hrs

Five kingdom classification of organisms. Kingdom fungi. General characters of form, function, reproduction and relationship with other organisms. Importance of fungi in human welfare.

Module 2. Mushroom Biology.

10hrs

Morphology (range of form, macro-morphology, micro-morphology), life cycle of a typical mushroom and biological function. Edible, non-edible and poisonous species. Domestication of mushroom. Importance of mushroom in human nutrition, sustainable livelihood, ecosystem function and quality of the environment.

Module 3. Applied Mushroom Biology.

12hrs.

Mushroom cultivation and production. Lab scale, pilot plant and large scale cultivation of commercial species. Crop cycle- spawn, substrate, substrate processing, spawning, spawn run, cropping, harvesting, environment requirement, post-harvest practices, shelf life, preservation, storage, transport and marketing. Value-added products of mushroom. Constraints and environment management. Economics of mushroom cultivation. Designs of mushroom facility.

Economics of mushroom cultivation and marketing.

Module 4. Mushroom Biotechnology.

9 hrs.

Concept. Preparation of flavours, appetizers, nutraceuticals, dietary supplements and cosmetics. Mushroom bioremediation. Cleaning of polluted sites. Utilization of mushroom mycelium or enzymes in recycling biological materials. Mycofiltration and applications of the process. Mycorrhiza applications. Biopulping, biobleaching and biotransformations. Biodetergents.

REFERENCES

- Aron N H :Wildlife Ecology; Freeman & Co.
Negi, S.S. (1993): Biodiversity and its conservation in India. Indus Publishing Co., New Delhi.
Negi, S.S. Manual for Wildlife Management in India.
Rajesh Gopal: Fundamentals of Wildlife Management; Justice Home.

B. Sc. DEGREE PROGRAMME (Theory)
ZOOLOGY
Generic Elective Course
APICULTURE
CODE : 5 D 02 ZLG
Credit:2; Hours:2/week; Total Hours:36

Course outcomes

CO 1 :Develop self-employment capabilities.

CO 2 : Acquires scientific knowledge of profitable farming.

UNIT I (8 Hrs)

Definition, Scope, Classification of bees, Rock bee, Indian bee, Little bee and Dammer bee- their identification and habits, choice of species in Apiculture. Bee colony-Distinctive features (social organization), Identification and Functions of queen, drones and workers, Structure and functions of Legs, mouth parts and sting of worker bee. Development of Honey bee-egg, larva and pupa. Food of the bee- honey and pollen-royal jelly. Artificial feeding. Behaviour of bees-dances.

UNIT II (8 Hrs)

Principles of apiculture, Arranging an apiary, position-space-direction,acquiring bees-care of newly captured colonies-handling the bees. The bee comb and its architecture-Different kinds of cells. Different types of Modern hives (Newton, Langstroth) – Architecture. Appliances used in Apiaries.

UNIT III (8 Hrs)

Swarming-Prevention and control.Uniting stocks-Different methods Queen rearing. Requeening. Feeding methods. Apiary management. Inter-relationships of plants and bees.

UNIT IV (8 Hrs)

Honey bee products. Honey- Collection and Extraction, Preservation and storage –Physical properties,Chemical composition,nutritive value, medicinal values-honey as daliy food. Bee wax- Production , method of extraction-characteristics and uses. Bee venom-method of collection - composition of venom- its uses.

UNIT V (4 Hrs)

Enemies of bees- Mites, Greater wax moth, lesser wax moth, ants, wasps, beetles, birds and their management. Diseases of bees-adult and brood diseases- Bacterial, Fungal, Viral & Protozoan; Prevention and Control measures.

REFERENCES:

1. Bee Keeping in India – Sardar Singh- KAR,Delhi.

Open Course -1
APPLIED COUNSELLING

Semester	Course Code	Hrs. Per Week	Hrs. Per Semester	Credits	Exam Hours
V	5D01 HSC	2	36	2	2

COURSE OUTCOME

CO 1: To acquaint the students with the concepts counselling.

CO 2: To familiarizes the students with different types and approaches in counselling.

CO 3: To enable the students to understand counselling relationship and skills.

CO 4: To enable the students about the nature and process of counselling

CO 5: To develop awareness among the students about the application of counselling.

Module	Content	Hrs.
I Introduction to Counseling	Definition, goals and features of counselling. – Difference between guidance and counselling. – Characteristics of effective counsellors. Ethical principles of counselling. – Misconceptions regarding counselling.	8
II Approaches to Counselling	Directive counselling – Nondirective counselling – Eclectic counselling – Cognitive therapies – Psychoanalytic therapy Behavioural counselling – Group therapy.	4
III Counselling Relationship	Meaning of counselling relationship. Conditions for helping relationships: Empathy, positive regard, genuineness and concreteness. – Specific skills required in counselling.	6
IV Counselling Process	Stages of counselling process. The first stage: Initial disclosure. – The second stage: In-depth exploration. – The third stage: Commitment to action.	8
V Special Areas in Counselling	Child counselling, premarital counselling, family counselling, academic and school counselling, career counselling, crisis intervention counselling, rehabilitation counselling, post traumatic counselling.	10

Books for Study

1. Welfel, E. R. and Patterson, L.E. (2011), The counselling process, CENAGE Learning India Pvt. Ltd., India
2. Agrawal, R. (2007): Educational Vocational guidance and counselling, Shipra publications, Delhi.
3. Narayana, S. R. (2008), Counselling psychology, Tata MC Graw Hill, New Delhi.

Books for Reference

4. Belkin, G.S. (1988). Introduction to counseling, W.G. Brown Publishers.
5. Nelson, J. (1982). The theory and practice of counseling psychology, Hallt Rinehart and Winston, New York.
6. Vishala, M. (2008), Guidance and counseling, Chand & Company Pvt. Ltd., New Delhi.

7. Patterson, Lewis E (1999) The counselling process 5th edition Cliveland State University, Thomson Asia Pvt Ltd., USA.
8. Windy, D. (1988) (Ed), Counselling in action, Sage publication, New York.

Module wise distribution of Marks

Module	Marks
1	4
2	7
3	5
4	6
5	8

Pattern of Questions

- Part A - Short answer** (6 questions x Mark 1 each= 6)
 • *Answer all questions* (6 questions x Mark 1 each = 6)
- Part B - Short Essay** (6 questions x Marks 2 each =12)
 • *Answer any 4 questions* (4 questions x Marks 2 each=8)
- Part C - Essay** (2 questions x Marks 6 each =12)
 • *Answer any 1 question* (1 question x Marks 6 each=6)
- **Total marks including choice - 30**
 - **Maximum marks of the course - 20**

GENERIC ELECTIVE COURSE 04:

FUNDAMENTALS OF BUDGET

SEMESTER	COURSE CODE	HOURS PER WEEK	CREDIT	EXAM HRS
V	5D 04 ECO/ DEV ECO	2	2	2

COURSE OUTCOME

1. Students will get an idea about budget and the basic concepts, apart from budgetary procedures
2. Students will acquire basic knowledge about the sources of revenue and expenditure of govt.

Module I. Budget

Meaning and objectives of budget- Principles of budgeting - Budgetary procedure (preparation of the budget, presentation of the budget in the parliament, execution of the budget and parliamentary control over the budget)- Balanced, surplus and deficit budgets- Performance budget and Zero Based Budget- Consolidated fund and contingency fund- - Major deficit concepts (Revenue deficit, fiscal deficit, primary deficit)- Major highlights of the current year's Budget.

Module II. Public expenditure and revenue

Public expenditure – Meaning- classification (Revenue and capital expenditure, plan and non-plan expenditure), reasons for the growth of public expenditure in India.

Public revenue - Sources (Tax revenue and non-tax revenue)- Tax (meaning and features)- Direct and indirect taxes- progressive, proportional, regressive and digressive taxes- Tax evasion and tax avoidance – Finance commission and functions.

Books for Study

1. Jha, R. (1998), Modern Public Economics, Routledge, London
2. Mithani, D.M: Modern Public Finance: Theory and Practice
3. Musgrave, R.A. and P.B. Musgrave(1976) Public Finance in Theory and Practice, McGraw Hill
4. Rana, K.C & Varma, K.N: A Study in Public Finance.

Books for Reference

1. Hajela, T.N (2010): Public Finance, Ane Books
2. Herber, B.P. (1967) Modern Public Finance, Richard D. Irwin, Homewood.
3. Andley, K.K and K. P. M. Sundharam(1966) Public Finance and Public Economics: With Special Reference to Underdeveloped Countries, Ratan Prakashan Mandir,
4. Singh S K (2010): Public Finance: Theory and Practice, S Chand.

Kannur University

BA English Language and Literature

Generic Elective Courses

Curriculum, Syllabus and Scheme for
5D01(2) ENG:FILM STUDIES

Course Outcomes

1. Understand the major Movements, Genres and Masters in the history of Cinema.
- 2: Understand the nature of representation on screen and how class, race, caste, ethnicity and gender are represented.
- 3: Analyze and appreciate film as art form through close readings of films.

Course Details

Course Code: 5D01(2) ENG

Title of the Course: FILM STUDIES

Semester Assigned:5

No. of Credits: 2

Contact hours/week: 2

Total No. of contact hours: 36

Content Specifications

MODULE I

INTRIDUCTION TO THE CINEMA

HISTORY

The Birth of Cinema-The Silent Period - Evolution of Sound Cinema- The Contemporary Period- Studio system- Star system and fan studies- History of exhibition- From theatres to Netflix (OTT platforms).

FILM MOVEMENTS

German Expressionism-Soviet Montage-Italian Neo-realism- French New Wave-Hollywood Cinema-Japanese Cinema-Korean Cinema-Iranian Cinema -Indian Cinema-Malayalam Cinema

MODULE II

FILM GENRES

Documentary -Road Movies-Animations-Biopic- War movies-Sports movies-Feature films- - Short films-Digital films

FILM TERMS

Mise-en-scene: Setting, Props, Costume, Performance, Lighting and Colour

Cinematography: Shot-Extreme Long Shot, Long Shot, Medium Shot, Close up, Deep focus Shot, Reverse shot, Over- the- Shoulder Shot, Point-of-view Shot, High Angle shot, Low Angle shot, Canted frame, Masking, Pan, Tilt, Tracking, Crane, Shaking, Zooming,

Editing: Chronological editing, Cross cutting, Montage, Continuity editing, Continuity cuts, Jump cuts, Match cuts, 30 Degree rule, 180 Degree rule -Long Take

Sound: Diegetic and non diegetic sound effect, Ambient sound, Music, Voiceovers, Parallel and Contrapuntal sound, Sound bridge, Special effects, Sound editing, Spotting, Onscreen sounds, Off screen sounds, Background and Foreground music, Dialogue tracks, Music Tracks

Pre-Production: Idea, Script, Storyboard, Schedule, Budget, Crew, Location, Art Direction, Casting.

Production: Set Preparation, Camera, Sound and Shooting.

Post Production: Visual and Sound Editing, Mixing, Graphics / Animation, Marketing and distribution.

Students should understand the key concepts of pre-production, production and post-production of film making by visiting film shooting locations and recording studios. Students should produce a digital/short/mobile film of 3 to 5 minutes as part of their internal assessment where their duties must be divided and assigned as Director, Script writer, Cinematographer, Editor, Actor etc.

It should be a group activity of 6 to 10 students and a screening festival may be conducted in the college level or intercollegiate level.

This can be tested as part of the internal assessment

MODULE III

FILMS FOR ANALYSIS AND APPRECIATION:

1. *The Bow* : Kim Ki-duk.

2 **Viras** :Aashiq Abu

FOR VIEWING AND ANALYSIS -INTERNAL ASSESSMENT

1. Vittorio de Sica: *The Bicycle Thieves*
2. Akira Kurosawa: *Rashomon*
3. *PatherPanchali* : Satyajit Ray
4. *Elipathayam* :Adoor Gopalakrishnan.
5. *Salam Bombay* : Mira Nair
6. *Modern Times* : Charlie Chaplin
7. *The Motorcycle Diaries* : Walter Salles
8. *Thoovanathumbikal* : P Padmarajan.
9. *Kammatipaadam* :RajeevRavi
10. *Chayilyam* : Manoj Kana
11. *A Pestering Journey* : K.R. Manoj
12. *22 Female Kottayam* :Aashiq Abu

Books for Reference

1. Amy Villarejo. *Film Studies : The Basics*. London & New York: Routledge, 2015. Print
2. Balakrishnan C.V. *Cinematography*, Mathrubhoomi Books, 2013. Print
3. Berger, John. *Ways of Seeing*. London: Penguin, 1972. Print.
4. Deshpande, Anirudh. *Class, Power and Consciousness in Indian Cinema and Television*. Delhi: Primus Books, 2009. Print.
5. Geiger, Jeffrey and R.L. Rutsky, eds. *Film Analysis : A Norton Reader*. New York: W.W.Norton&Company, 2013. Print
6. Gopinathan, K. ed. *Film and Philosophy*. Calicut University: Publication Division, 2003.
7. James Monaco, *How to Read a Film*, Oxford University Press, 2000.
8. J Dudley Andrew, *The Major Film Theories: An Introduction* New Delhi Oxford
9. Louis Giannetti, *Understanding Movies*, Simon and Schuster Company, USA
10. Mirzoeff, Nicholas. *Visual Culture Reader*. Routledge: London, 1998. Print.

11. Monaco, James. *How to Read a Film: The Art, Technology, Language, History and Theory of Film and Media*. Oxford: OUP, 1981, 195. Print.
12. Nick Lacey. *Introduction to Film*, Palgrave Macmillan, 2005.
13. Pillai, Meena T, ed. *Women in Malayalam Cinema: Naturalizing Gender Hierarchies*. Hyderabad: Orient Blackswan, 2010. Print.
14. Rajadhyaksha, Ashish and Paul Willemen, eds. *Encyclopedia of Indian Cinema*. New Delhi: OUP, 1999. Print.
15. Shohini Chaudhuri, *Contemporary World Cinema*, Edinburgh University Press, 2005.
16. Shohini Chaudhuri, *Feminist Film Theorists : Laura Mulvey, Kaja Silverman, Teresa de Lauretis, Barbara Creed*. New York: Routledge, 2006. Print.
17. Susan Hayward, *Key concept in Cinema studies*, Routledge, 2004. Print.
18. Yves Thoraval, *The Cinemas of India*, Macmillan, 2000. Print.

GENERIC ELECTIVE COURSE 02

India's Struggle for Freedom

Semester	Course Code	Hours Per Week	Credit	Exam. Hours
V	5D02 HIS	2	2	2

Course Outcomes: students should be able to

1. Demonstrate factual and theoretical knowledge of India's freedom struggle
2. Understand diverse perspectives of the leaders of freedom struggle
3. Analyze communal politics and its impact on Indian society
4. Interpret the role of national movement in the making of modern India

UNIT I: Towards Organized National Movement

Formation of Indian National Congress- Moderate phase of National Movement - Rise of Extremism- Partition of Bengal – Swadeshi Movement – Formation of Muslim League - Home Rule League – Lucknow Pact

UNIT II: Emergence of New Leadership

Champaran Satyagraha - Rowlatt Act - Khilafat and Non-Cooperation Movement - Swarajist Party, Gandhian Method of Agitation - Simon Commission - Nehru Report- Formation of HSRA – Bhgat Singh -

UNIT III: Towards Independence

Civil Disobedience Movement - Round Table Conferences - Rise of Leftism in Congress Cripps Mission - Quit India Movement - Subhash Chandra Bose and INA - RIN Mutiny - Jinnah and Two Nation Theory – Cabinet Mission - Mountbatten Plan - Independence.

Essential Readings:

Bipan Chandra, *India's Struggle for Independence*

-----, *Modern India*

-----, *Nationalism and Colonialism in Modern India*

A.R. Desai, *Social Background of Indian Nationalism*

Sumit Sarkar, *Modern India 1885- 1947*

R.C, Majumdar, *History of Freedom Movement in India*

Jawaharlal Nehru, *Discovery of India*

Marks including choice: 30

Maximum marks: 20

Unit	Marks
I	10
II	10
III	10

GENERIC ELECTIVE COURSE II:

സൈബർ സാഹിത്യം

(പഠനമണിക്കൂർ-36)

SEMESTER	COURSE CODE	HOURS PER WEEK	CREDIT	EXAM HRS
V	5 D 02 MAL	2	2	2

നവമാധ്യമങ്ങളുടെ പ്രചാരം മനുഷ്യന്റെ ജീവിതപരിസരങ്ങളെ ആകെ ബാധിക്കുന്നതരത്തിൽ ഇന്ന് മാറിയിരിക്കുന്നു. നിത്യജീവിതത്തിന്റെ ഭാഗമായി സാങ്കേതികോപകരണങ്ങളും മാറിയിരിക്കുകയാൽ യഥാർത്ഥലോകമെന്നും വെർച്വൽ ലോകമെന്നും പണ്ടുണ്ടായിരുന്ന വേർതിരിവ് ഇന്ന് സാധ്യമല്ലാതായിരിക്കുന്നു. അവ രണ്ടും ഇഴചേർന്ന ഒരു ജീവിതമാണ് ഇന്നു മനുഷ്യൻ ജീവിക്കുന്നത്. എഴുത്തിടമെന്ന രീതിയിലും കൂടെ നവസാമൂഹ്യ മാധ്യമങ്ങളെ ഉപയോഗപ്പെടുത്താൻ തുടങ്ങിയതോടെ അവ നമ്മുടെ സമകാല സാഹിത്യരംഗത്തുണ്ടാക്കിയ ചലനങ്ങൾ പരിചയപ്പെടുന്നു.

COURSE OUTCOME

- CO1. മാറ്റുന്ന സാങ്കേതികസംസ്കാരത്തെയും അവ സാഹിത്യത്തിലും സംസ്കാരത്തിലുമുണ്ടാക്കിയ മാറ്റങ്ങളെയും പരിചയപ്പെടുക
- CO2. നവസാമൂഹിക മാധ്യമങ്ങളെ ജീവിതത്തിൽ ഗുണപരമായി പ്രയോജനപ്പെടുത്താൻ പ്രേരണ നൽകുക.
- CO3. സാങ്കേതികവികാസം സാഹിത്യ- സംസ്കാര പഠനരംഗത്തെ മികവു വർദ്ധിപ്പിക്കാനായി സാങ്കേതികവിദ്യ പ്രയോജനപ്പെടുത്താൻ ശീലിപ്പിക്കുക.
- CO4. സർഗാത്മകതയിൽ സാങ്കേതികവിദ്യ പ്രയോജനപ്പെടുത്താൻ ശീലിപ്പിക്കുക.
- CO5. ഓൺലൈൻകാല സാഹിത്യമാതൃകകൾ പരിചയപ്പെടുകയും പഠനവിധേയമാക്കുകയും ചെയ്യുക.

യൂണിറ്റ് ഒന്ന് (പഠനമണിക്കൂർ -12)

നവസാമൂഹ്യമാധ്യമങ്ങൾ- സാമാന്യപരിചയം- നിർവചനം- എഴുത്തിന്റെ ഇന്റർനെറ്റ് വിനിമയങ്ങൾ- ആവിഷ്കരണസാധ്യതകൾ- സ്വയംപ്രസാധനം- ഹൈപ്പർലിങ്ക്- പ്രധാന സാമൂഹ്യശൃംഖലകൾ, സൈബർ സംസ്കാരം- വെർച്വൽ റിയാലിറ്റി സൈബർ നെറ്റിക്സ്- സൈബോർഗ്.

യൂണിറ്റ് രണ്ട് (പഠനമണിക്കൂർ -12)

സൈബർ ഇടം- കുട്ടായ്മകൾ- പുതുസമൂഹനിർമ്മിതികൾ- എഴുത്തിടങ്ങൾ- ഓൺലൈൻ പത്രങ്ങൾ, ആനുകാലികങ്ങൾ.
 വെബ്മാഗസിനുകൾ-മലയാളത്തിലെ വെബ് അധിഷ്ഠിത പ്രസിദ്ധീകരണങ്ങൾ.
 ഇ-മലയാളം- റവഗലേ രൂപം.
 ഹരിതകം- തിരക്കവിത- മറുനാടൻ മലയാളി- നവമലയാളി- ആഴ്ചപ്പതിപ്പ്- ഓൺലൈൻ മാഗസിനുകളുടെ വളർച്ച.
 ഇ-ബുക്ക്- ഗ്രന്ഥശാലകൾ- വികസിപ്പിച്ച - മലയാളംവികിയുടെ വളർച്ചയും വികാസവും.

യൂണിറ്റ് മുൻ

(പഠനമണിക്കൂർ -12)

സൈബർ സാഹിത്യം- ആദ്യകാലബ്ലോഗുകൾ- അഗ്രിഗേറ്ററുകൾ- ബുലോകകവിത സാങ്കേതികവിദ്യയും സാഹിത്യവും- സാധ്യതകൾ- ഉപയോഗം- കവിതയിലെ പുതുവഴികൾ - കഥയിലെ പുതുവഴികൾ- ഭാഷ- ആഖ്യാനം- പ്രമേയം എന്നിവ പരിചയപ്പെടുക.

Marks including choice:

Unit	Marks
I	12
II	9
III	9

ചോദ്യമാതൃക

- പാർട്ട് എ - കുറിപ്പ് തയ്യാറാക്കുക 6 ചോദ്യത്തിന് 1 മാർക്ക് വീതം. (6×1=6)
- പാർട്ട് ബി -ആറൊണ്ണത്തിൽ നിന്ന് ഏതെങ്കിലും നാലെണ്ണത്തിന് ഒരു പേജിൽ കവിയാതെ ഉത്തരമെഴുതുക- ഓരോന്നിനും രണ്ട് മാർക്ക് വീതം (4×2=8)
- പാർട്ട് സി- രണ്ടെണ്ണത്തിൽ നിന്ന് ഏതെങ്കിലും ഒന്നിന് മൂന്നു പേജിൽ കവിയാതെ ഉത്തരമെഴുതുക- ആറ് മാർക്ക് (1×6=6)

- **Total marks including choice -30**
- **Maximum marks of the course-20**

GENERIC ELECTIVE COURSE I: BASIC ACCOUNTING

SEMESTER	COURSE CODE	HOURS PER WEEK	CREDIT	EXAM HRS
V	5D01 COM	2	2	2

COURSE OUTCOME

After studying the course, students shall be able to;

CO 1: describe the basic accounting concepts

CO 2: record the business transactions in the proper books of accounts

CO 3: prepare financial statements of a sole trading concern

Unit I

Introduction: Basic Accounting concepts - Kinds of Accounts – Double Entry Book Keeping – Rules of Debit and Credit.

[6 Hours]

Unit II

Recording of Transactions: – Preparation of Journal and Ledger Accounts- Simple problems.

[8 Hours]

Unit III

Subsidiary books - cash book – types of cash book – problems (single column and two column only) -purchase book - sales book - sales return - purchase return books –Journal proper

[6 Hours]

Unit IV

Trial balance – Meaning and purpose-Preparation of trial balance

[6 Hours]

Unit V

Financial Statements –Trading and Profit & Loss Account – Balance sheet (of sole trading concern) – Simple Problems

[10 Hours]

(Theory and problems may be in the ratio of 30% and 70% respectively)

Reference Books:

1. Grewal, T.S: Double Entry Book Keeping
2. Jain and Narang: Advanced Accountancy
3. Shukla and Grewal: Advanced Accountancy
4. Gupta and Radhaswamy: Advanced Accountancy
5. Gupta R.L: Advanced Accountancy

Marks including choice:

Unit	Marks
I	4
II	6
III	8
IV	4
V	10
Total	32

GENERIC ELECTIVE COURSE I: HEALTH AND PHYSICAL EDUCATION

SEMESTER	COURSE CODE	HOURS PER WEEK	CREDIT	EXAM HRS
V	5 D 01 PED	2	2	2

COURSE OUTCOME

- CO - 1 Familiarize the concept of health and physical education.*
- CO - 2 Create awareness among the basic nutrition, hypo kinetic and life style diseases.*
- CO – 3 Acquire the ability to apply life saving techniques of first aids during emergencies*
- CO – 4 Familiarized to modalities of fitness development and maintenance.*
- CO – 5 Execute Common fitness test and evaluation*
- CO – 6 Examine the posture and postural deformities and prescribe necessary corrective measures*
- CO – 7 Demonstrate five yogasanas and its therapeutic effect leading to wellness*

Unit I : Physical Education

- 1.1 Physical Education- Meaning,
- 1.2 Need and Importance of Physical Education. Concept of Sports
- 1.3 Major and Minor games, Mass Sports and Recreational games.
- 1.4 Intramural and Extramural competitions
- 1.5 Career opportunities in Sports

(9 Hrs)

Unit II : Health and Fitness

- 2.1 Meaning and factors affecting Health.
- 2.2 Health Related Physical Fitness.
- 2.3 Test, evaluation and development of physical fitness (AAHPER Youth Physical fitness test, BMI and One-star standard test)
- 2.4 Health benefits of Physical Exercise, Benefits of Yoga practice -stress management.
- 2.5 Aerobic and anaerobic exercise.
- 2.6 Effect of exercise on Circulatory, Respiratory and Muscular system

(9 Hrs)

Unit III: Nutrition and Life Style diseases

- 3.1 Nutrition and health
- 3.2 Balanced diet and mal nutrition.
- 3.3 Drug abuse and side effect
- 3.4 Hypo kinetic Diseases- Dietary and Exercise Interventions

(9 Hrs)

Unit IV: First Aid and Posture

- 4.1 First Aid – Definition, Aims and principles, ABC in first Aid and CPR.
- 4.2 Management of fracture Dislocation, Wounds, Sprain, Strain, Cramps, Fainting,
- 4.3 First aid for Burns, Bleeding, Electric shock, Chocking and Fainting
- 4.4 Posture - Congenital and acquired postural deformity.
- 4.5 Corrective measures/interventions

(9 Hrs)

Books for Study & Reference:

1. Bucher, C.A., (1979). Foundation of Physical education (5th ed.). Missouri: C.V.Mosby co.
2. Fox. Boulers. Foss, The Physiological basis of Physical education and athletics
3. B K Iyengar, Lights on yoga ;India today group.
4. Milinda j Flagel, Sports first aid; Human kinetics.
5. Barrow, H.M. (1983). Man and Movement: Principles and Physical Education. Phi: Lea and Febiger
6. Corbin, Charles B.et.al, C.A., (2004). Concepts of Fitness and Wellness , Boston: McGraw Hill
7. Kretchmar, R.S. (1994). Practical Philosophy of Sport. IL: Human Kinetics.
8. Shekhar, K.C. (2004). Principles & History of P.E. Delhi: Khel Sahitya Kendra.
9. Frank, A.M. (2003). Sports & education. CA: ABC-CLIO
10. Kamlesh, M.L. (2006). Educational Sport Psychology. New Delhi: Friend's Publication
11. Puri, K, Chandra., S,S, (2005). Health and Physical Education. New Delhi: Surjeet Publications
12. Siedentop, D,(1994) Introduction to Physical Education and Sports (2nd ed.).California :Mayfield Publishing Company
13. William, J.E. (1964). Principles of Physical Education:, Com. Philadelphia: W.B.Sounders
14. Ziegler, E.F. (2007). An introduction to Sports & Phy.Edu. Philosophy. Delhi: Sp.Educational Technology.
15. ACSM's "*Health related physical fitness assessment manual* Lippincott Williams and Wilkins USA, 2005