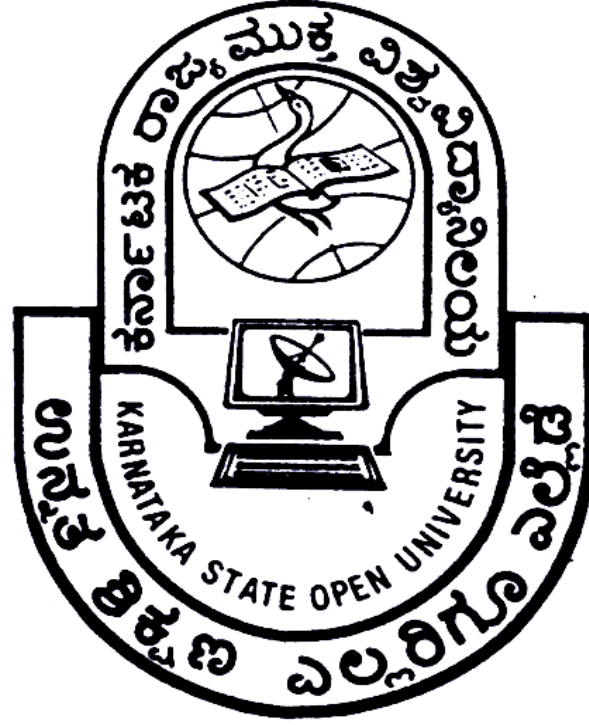


KARNATAKA STATE OPEN UNIVERSITY PROGRAMME GUIDE

MASTER OF ARTS IN EDUCATION



DEPARTMENT OF STUDIES & RESEARCH IN EDUCATION

Mukthagangothri, Mysore – 570 006

VICE-CHANCELLOR'S MESSAGE

Dear Learner,

The family of KSOU welcomes you to pursue the academic programmes you have chosen to achieve not only academic excellence but also to fulfil the desire of your career. The University established by the Act of State Legislature, it has created wonderful academic ambience. The programmes offered by the university have been recognized by University Grants Commission. Therefore, the degrees are valid for employment opportunities across the country. The 'core values' of the University is derived from its vision '**Higher Education to Everyone, Everywhere**'. The ultimate touchstone of providing quality higher education is the motto of the university. Today, higher education stands at the crossroads of keeping pace with the emerging needs of the country.

The University has adopted a school concept in its functioning. Different schools headed by Directors offer academic programmes in Humanities, Commerce, Education, Science and Social Sciences. It combines an inter-disciplinary and professional approach to pedagogy and research. The University believes that rigors of the contemporary world require competent quality human resources to create knowledge based society. The academic activities of M.A./M.Com programmes are routed through well-established department/s led by the Chairperson/s. Well-qualified teaching faculty with equally dedicated non-academic team is an asset to the university, which is always, committed for the welfare of the students.

The University functions in a 3-tier system of student support service, namely Headquarters, Regional Centres and Learners Support Centres spread all over Karnataka. The learners can undergo teaching learning process in the notified Regional Centres/Learner Support Centres. The University has adopted a mechanism to deliver Self Learning Material by print, limited audio visual and Counselling/Personal Contact Programme. As a learner, you will have greater opportunity to gain knowledge and skill through these mechanisms. The academic counsellors will play a strategic role and enable you from the enrolment of the programme till you accomplish the goal. A proper blending of the knowledge and skill will be imparted so that you will be transformed as a good citizen to contribute to the development of society and the country.

The UGC in its Public Notice dated: 23.02.2018 stated that the Degree/Diploma/Certificate Programmes awarded through distance mode are on par with corresponding Degree/ Diploma/ Certificate Programme obtained through conventional universities. The degrees acquired through distance education are recognized for the purpose of employment in State/Central Government, MNCs, and Private Sector etc. It also enables you to pursue higher education in other educational institutions. Therefore, you have greater opportunity of pursuing Higher Education without any kind of fear about your career.

I am sure you will enjoy good experience with services rendered by the university through its Regional Centres and Learner Support Centres, besides Headquarters. I wish you all the best in your academic endeavours.

Prof. Vidyashankar .S

MESSAGE FROM DEAN (ACADEMIC)

Dear learner,

As you know education imparts knowledge and skills which empowers all to build civilized society. Higher education policy which was once a priority sector is no longer maintaining the same, due to General Agreements and Trade in Services (GATS). The education policy of the government provides a greater opportunity to accelerate Gross Enrolment Ratio (GER).

Higher education is imparted both by conventional system and ODL system. The former education has inbuilt rigidity where ODL enjoy flexibility. Presently the GER in higher education around is 27%, thanks to the role played by ODL system. The ODL system operates under access, flexibility and success.

The Karnataka State Open University, which came up in 1996 under the Act of state legislation 1992 play a stupendous role in imparting quality education. As one of the premier institution in ODL system of the country, the university strive hard to empower various disadvantaged sections of the society like, house wives, economically and culturally backward, tribal, senior citizens, working groups, differently abled, professionals, technocrat, jail inmates etc., The University cater to the needs of students ranging from the age of 18 years to 80 years.

The programmes offered by KSOU are strictly in conformity with quality and standards set by regulatory bodies UGC/AICTE etc., The Karnataka State Open University was established on 1st June 1996 vide Government Notification No. EDI/ UOV/ 95 dated 12th February 1996- KSOU Act 1992, keeping in view the educational needs of our country, in general, and the state in particular. The University has a long and rich experience in the field of Distance Education as the erstwhile Institute of Correspondence Course and Continuing Education. University Grants Commission (UGC) New-Delhi vide order No: F.No 14-5/2018 (DEB-I) Dated : 14th August 2018 for the period from 2018-19 to 2022-23. The KSOU operates on dictum quality first and students foremost. Further the university is highly committed to provide need based education to the door steps of the students.

The KSOU has students' support services which work in 3 tiers - head office; regional centres and study centres within the jurisdiction of state. The admissions, counseling and the examinations are conducted in different places, hence, education at the door steps.

The dedicated staffs in various department and state of the art student support services create a conducive environment for teaching learning. The university put in places all possible efforts to keep the learners happy from the stage of enrolment till they get employed. I am confident that, as a learner in the university, you will enjoy good experience in the system.

I wish you all the best in your academic endeavors.

Truly yours,

Dean (Academic)

1.0 ABOUT THE UNIVERSITY

1.1 Introduction

The University was established in June 1996 with a vision “**Higher Education to Everyone, Everywhere**”. The University blossomed in the era of globalization in which the economies of the world are being transformed from their original closed self-sustaining structure to the globalized context, where they can expose themselves to the competitive world. This transition forced the arena of knowledge emphasizing itself to more of its application than of accumulation of facts. The Karnataka State Open University in order to cope with the present global environment, is attempting to integrate interdisciplinary approaches in the dissemination of knowledge with the aim of achieving overall human personality development.

Mysuru is a historical centre possessing a rich cultural heritage which had valiant historical events of different kingdoms and humane social setup of incomparable stature. University has paved the way for realizing the vision at the international arena leading to human welfare. It was started during the year 1996 as a separate entity to cater to the needs of thousands of young aspirants of higher education.

The KSOU is situated at heart of Mysuru city, The University operates in 50 Acre of land in a fully green ambience. The University is offering UG, PG and Ph.D. programs besides diploma and PG Diploma programs in various disciplines. The University is fully equipped with 28 academic departments controlled by the chairpersons and supported by other faculty and non teaching staff. The University is offering various degrees and diploma in Humanities, Social Science, Science and Commerce and Management. The KSOU is carved mainly with an intention of promoting unprivileged group of society and hence the fees for all the courses at affordable rate.

1.2 Special Features

The Open Distance Learning system is a unique and challenging because, the learners joining Open Distance Learning hailed from a diverse socio-economic background and with a varied learning background. The present conventional university system could not meet the genuine needs of such students who could not pursue their studies in a conventional university for various reasons. In order to give them an opportunity to pursue their studies in Open Distance Learning, this University has been established. The major objective of the University is to generate human resources of top quality with more emphasis laid on the following:

- (1) To transform guiding vision into action plan through various measures.
- (2) To generate high quality human resources through skill training.
- (3) To provide opportunity to In-service teachers to acquire higher knowledge.
- (4) To provide opportunity to pursue higher education at their own places.
- (5) To provide transparent manner of admission.
- (6) To transfer restricted learning to a global-based learning.
- (7) To promote new concept and new direction to higher education.
- (8) To promote multiple imperatives to achieve the national development.
- (9) To play critical role in addressing social imperatives.
- (10) To create adequate student-support services for innate capacity building.

2.0 ABOUT THE DEPARTMENT

2.1 Introduction

Department of Education was started in the year 1973 in ICC & CE of University of Mysore with B.A. in Education. KSOU was established in 1996 and after fulfilling the norms, got recognition from NCTE to start B.Ed. and M.Ed. with an intake of 500 students and 475 students respectively. KSOU was the first university to start M.Ed. programme through Distance mode. Department of Education is the pioneer in introducing SLM in KSOU in 2000.

Programmes offered by the Department of Education are: B.A in Education, B.Ed. and Ph.D. M.Ed.(upto 2014-16), B.Ed. in Special Education(upto 2014-16 with RCI Recognition) and PGDHE(upto 2014-15). The Department is offering M.A in Education from the academic year 2021-22(July cycle).

2.2 Faculty Members

Sl. No	Name	Designation	Qualification	Specialization	Experience	Mobile Number
1	Dr. N. Lakshmi	Professor & Chairman	M.Ed. Ph.D	Education Sociology	25	9886917952
2	Dr. Shanmukha	Assistant Professor	M.Ed. Ph.D	Philosophy of Education	28	9481438829
3	Dr. Sharanamma .R	Assistant Professor	M.Ed. Ph.D	Education Administration	27	9739970866
4	Dr. Nagendrakumar .R	Assistant Professor	M.Ed. Ph.D	Special Education	24	9980737186
5	Dr. Krishnappa .N	Assistant Professor	M.Ed. Ph.D	Research Methods	24	9448603159
6	Dr. Janaki .M	Assistant Professor	M.Ed. Ph.D	Education Pshycology	24	9945024886
7	Dr. Shailaja P Shanbhag	Assistant Professor	M.Ed. Ph.D	Education Technology	20	9483760099
8	Dr. Sunanda .H	Assistant Professor (Contract Basis)	M.Ed. Ph.D			

3.0 M.A IN EDUCATION DEGREE PROGRAMME

3.1 Introduction

The Master of Arts in Education Programme is an innovative programme, which would provide learners a wider and more comprehensive understanding of education as a field of knowledge and would accommodate a wide variety of learner needs. Needs may range from understanding the concept of education to knowing how knowledge gets generated in the area of education to acquiring higher level of specialization in specific aspects of education.

3.2 Mission

To empathize the learners to understand the structure, processes, problems of Education and equipping them to approach and solve them with methodical knowledge.

3.3 Objectives

- To indicate abstract knowledge about broad range of Educational taxonomies, theories and research methods.
- To disseminate Educational knowledge to its future practitioners to approach the contemporary issues of society with Educational applications.
- To create some definite employable skills in getting job opportunities by dissemination of Education knowledge.
- To develop competencies required for evaluating students' learning.
- To develop understanding of psychological principles of growth and development, individual differences and similarities and psycho motor and attitudinal learnings.

3.4 Relevance

- M.A in Education is two year programme, offered in ODL mode with an appropriate credit design suggested by the regulatory body. It is designed following the recommendations of UGC and also syllabi used for various competitive examinations across India.
- The programme helps learners not only in systematically understanding the structure and dynamics of modern Education system but also in orienting them to devise ways and means proposing working solutions for several of the problems of modern Education.
- Comprehensive and Eclectic perspective taught in the programme, train learners to work with concrete skills at the field level and in the sphere of teaching, research and organizations. They are concerned with the issues of 'development', 'Environment', 'Educational commission', 'policies', 'Welfare of Deprived Groups', 'Inclusions', 'Educational Institutions and professional groups' confronted in the field of Education.

3.5 Eligibility for Admission

A Bachelor's Degree in any discipline with or without a Degree in Education from a recognized university.

3.6 Duration of the Programme

The Master of Arts in Education programme can be completed by a student in a minimum of two years and in a maximum of four years.

3.7 Medium of Instruction

The medium of instruction is English or Kannada. However, students of Master of Arts in Education can write their assignments, Terms-end Examinations and Dissertation in Kannada or English

3.8 Instructional System

The methodology of instruction in this university is different from that in the conventional universities. The Open University System is more learner centered and the student has to be an active participant in the teaching-learning process. Most of the instruction is imparted through distance rather than face-to-face communication.

The University follows a multi-channel approach for instruction. It comprises a suitable mix of:

- Self-instructional Printed Material
- Audio-Video Cassettes
- Face-to-face Extended Contact Programme and Counselling
- Assignments
- Tests
- Dissertation

Print Materials

- An exposition of the subject
- Questions for self-evaluation
- Relevant extracts from standard works or journals
- Topics for assignments
- Titles of books recommended for further reading and reference

3.9 Courses of Study

	Course Code	Semester and Course
		Semester - I
M.A in Education I Semester	HC 1.1	Philosophy of Education
	HC 1.2	Sociology of Education
	HC 1.3	Psychology of Education
	SC 1.1(A)	Fundamentals of Educational Technology
	SC 1.1(B)	Educational Administration
	SC 1.2(A)	ICT and School Education
	SC 1.2(B)	Leadership in Education
	IDC-I	Foundations of Education
		Semester - II
M.A in Education II Semester	HC 2.1	Curriculum - Principles and Planning
	HC 2.2	Distance Education
	HC 2.3	Elementary and Secondary Education
	SC 2.1(A)	Audio-Visual Media in Education
	SC 2.1(B)	Educational Planning
	SC 2.2(A)	Communication Skills
	SC 2.2(B)	Economics of Education
		IDC-II

M.A in Education III Semester		Semester – III
	HC 3.1	Teaching – Theory & Systems
	HC 3.2	Educational Research
	HC 3.3	Women Education
	SC 3.1(A)	Print Media in Education
	SC 3.1(B)	Educational Management
	SC 3.2(A)	Media in Mass Communication
	SC 3.2(B)	Management of Social Groups
	SEC-I	Stress Management
		Semester – IV
M.A in Education IV Semester	HC 4.1	Evaluation – Theory and Practice
	HC 4.3	Dissertation
	SC 4.1(A)	Online Education
	SC 4.1(B)	Human Resource Development
	SC 4.2(A)	Theories and Modes of Communication
	SC 4.2(B)	Training and Assessment of Leadership
		SEC-II

3.10 Personal Contact Programme

In Distance Education, face-to-face contact between the learners and their teachers is an important activity. It is necessary to increase this contact through periodic counselling. These sessions may be used to clarify their doubts, which may not be possible through any other means of communication. These sessions can also be used for getting adequate guidance for completing their dissertation. It will also give them an opportunity to meet their fellow students. The counselling sessions for each of the courses will be held at suitable intervals throughout the whole academic session. The counselling sessions are not compulsory. However, they may be very useful in certain respects as:

- to share one's views on the subject with teachers and fellow participants
- to comprehend some of the complex ideas or different issues
- to get clarifications for many doubts which would not have been cleared other wise
- to consult Academic Counsellors for selecting topics for the research project and getting subsequent guidance for the completion of the dissertation.

Students should note that the counselling will be very different from the usual classroom teaching or lecturing. Counsellors will not be delivering lectures or speeches. They will try to help the students to overcome difficulties (academic as well as administrative) which are faced while pursuing the programme. In these sessions one must look into the subject based difficulties and any other issues arising out of such difficulties. Besides, some of the audio and video cassettes that are available at that time will be played in the Counselling Sessions.

Before the students attend the Contact Programme and the Counselling Sessions, they are advised to go through the study materials and note down the important points to be discussed. Unless they have gone through the print materials, there may not be much to discuss.

3.11 Assignments

Assignment is an integral part of distance learning. The purpose of assignment is to test the comprehension of the learning materials the student receives from the University and also to help

them comprehend better the courses by providing necessary feedback. The information given in the printed course materials should be sufficient for answering the assignments. However, students are advised to consult relevant reference materials for completing their assignments.

Assignments serve the purpose of continuous evaluation. The marks that the students get in their assignments will be reflected in their final result. For their own record, they are advised to retain a copy of the assignments, which they might submit to the University.

- Submission of assignment is compulsory without which no student will be allowed to appear for the Term-end-Examination.
- If one appears in the Term-end Examination, without submitting the assignments, the result of the Term-end Examination will be cancelled.
- All assignments should be submitted to the University.
- The University has the right to reject or accept the assignments received after the due date.
- Assignments once submitted will be considered as final and the marks/grades given to the assignment will be retained even if the student appears subsequently for the Term-end Examination.

3.12 Dissertation

There shall be a compulsory Dissertation to be submitted in the Second Year. The Dissertation is to help the student to use the theoretical insights they have developed by the study of various areas and use them to seek solutions to a problem or develop a design or strategy or material for an innovative practice. This will also help in the higher levels of learning which is directed towards preparing leaders in the field of education must have provision for a great deal of independent study including the ability to choose/select problems/topics which need to be addressed urgently. The Dissertation provides scope for this type of flexible and independent exploration.

By the end of First Year, students are expected to select a topic/problem for their Dissertation work. It should be selected as far as possible from their area of specialization only. This would help them in strengthening their theoretical foundations in their specialization area.

Each student shall prepare a Research Proposal of the Dissertation in consultation with the supervisor/guide and send the same in duplicate to the Chairman, Department of Studies and Research in Education, Karnataka State Open University, Mukthagangothri, Mysuru- 570 006. Students are advised to enclose copies of the Dissertation consisting of 80 to 120 pages to the Chairman, Department of Studies and Research in Education, Karnataka State Open University, Mukthagangothri, Mysuru- 570 006, within the stipulated time. The Dissertation shall be evaluated for 150 marks. There will be a Viva-Voce Examination after the theory examination for 50 marks.

4.0 EXAMINATION

4.1 Scheme of Examination

	Course Code	Semester and Course	Counselling/ PCP Hours	Credits	Maximum Marks		
					Internal Assessment	Term End Examination	Total Marks
		Semester - I					
M.A in Education I Semester	HC 1.1	Philosophy of Education	12	4	20	80	100
	HC 1.2	Sociology of Education	12	4	20	80	100
	HC 1.3	Psychology of Education	12	4	20	80	100
	SC 1.1(A)	Fundamentals of Educational Technology	09	3	20	80	100
	SC 1.1(B)	Educational Administration					
	SC 1.2(A)	ICT and School Education	09	3	20	80	100
	SC 1.2(B)	Leadership in Education					
	IDC-I	Open Elective	06	2	10	40	50
		Semester – I Total	60	20	110	440	550
		Semester - II					
M.A in Education II Semester	HC 2.1	Curriculum - Principles and Planning	12	4	20	80	100
	HC 2.2	Distance Education	12	4	20	80	100
	HC 2.3	Elementary and Secondary Education	12	4	20	80	100
	SC 2.1(A)	Audio-Visual Media in Education	09	3	20	80	100
	SC 2.1(B)	Educational Planning					
	SC 2.2(A)	Communication Skills	09	3	20	80	100
	SC 2.2(B)	Economics of Education					
	IDC-II	Open Elective	06	2	10	40	50
		Semester – II Total	60	20	110	440	550
		Semester – III					
M.A in Education III Semester	HC 3.1	Teaching – Theory & Systems	12	4	20	80	100
	HC 3.2	Educational Research	12	4	20	80	100
	HC 3.3	Women Education	12	4	20	80	100
	SC 3.1(A)	Print Media in Education	09	3	20	80	100
	SC 3.1(B)	Educational Management					
	SC 3.2(A)	Media in Mass Communication	09	3	20	80	100
	SC 3.2(B)	Management of Social Groups					
	SEC-I	Stress Management	06	2	10	40	50
		Semester – III Total	60	20	110	440	550
		Semester – IV					
M.A in Education IV Semester	HC 4.1	Evaluation – Theory and Practice	12	4	20	80	100
	HC 4.3	Dissertation	24	8	50	150	200
	SC 4.1(A)	Online Education	09	3	20	80	100
	SC 4.1(B)	Human Resource Development					
	SC 4.2(A)	Theories and Modes of Communication	09	3	20	80	100
	SC 4.2(B)	Training and Assessment of Leadership					
	SEC-II	Life Skills Education	06	2	10	40	50
		Semester – IV Total	60	20	120	430	550
		Semester I to IV Grand Total	240	80	450	1750	2200

Note: Student can choose Soft Core Stream A or B, further the same stream is to be continued throughout all the four semesters.

Interdisciplinary Electives

SL No	Department	Sub Code	I Semester	Sub Code	II Semester
1	KANNADA	ELK-01	ಆಧುನಿಕ ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಇತಿಹಾಸ	ELK-02	ಪ್ರಾಚೀನ ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಇತಿಹಾಸ
2	ENGLISH	ELE-01	Indian Literature -I	ELE-02	Indian Literature -II
3	HINDI	ELH-01	Vyavaharik Hindi Vyakaran	ELH-02	Hindi Cinema
4	TELUGU	ELT-01	Tilak	ELT-02	Telugu Samskruthi – Samaajam
5	HISTORY	ELHS-01	Ancient World Civilisations (Egypt, Mesopotamia, Greek, Roman, Inca, Chinese)	ELHS-02	Social Reform Movement in India
6	ECONOMICS	ELEC-01	Economic Policies of India Since 1991	ELEC-02	Institutions for International Development
7	POLITICAL SCIENCE	ELP-01	Local Government in India.	ELP-02	Indian Constitution
8	PUBLIC ADMINISTRATION	ELPA-01	Indian Polity-1	ELPA-02	Indian Polity-2
9	SOCIOLOGY	ELS-01	Invitation to Sociology	ELS-02	Study of Indian Society
10	JOURNALISM AND MASS COMMUNICATION	ELJ-01	Aspects of Journalism and Mass Communication - I	ELJ-02	Aspects of Journalism and Mass Communication - II
11	ANCIENT HISTORY AND ARCHEOLOGY	ELA-01	World heritage sites of India	ELA-02	Cultural History of Hoysalas

12	EDUCATION	ELED-01	Foundations of Education	ELED-02	Higher Education
13	COMMERCE	ELC –01	Personal Financial Planning	ELC –02	Entrepreneurship Development
14	MANAGEMENT	ELM –01	Disaster Management	ELM –02	E-Commerce
15	BIOCHEMISTRY	ELMBC –01	Basics of Bioinorganic and Biophysical chemistry for Biology graduates.	ELMBC –02	Basic Bioorganic chemistry for Biology graduates.
16	BIOTECHNOLOGY	ELMBT –01	Biotechnology Principles and applications	ELMBT –02	Fundamentals of Biotechnology
17	CHEMISTRY	ELMC –01	Open Elective I	ELMC –02	Open Elective II
18	CLINICAL NUTRITION AND DIETETICS	ELMCND –01	Healthy lifestyles and nutrition	ELMCND–02	Nutraceuticals and health foods
19	COMPUTER SCIENCE	ELMCS –01	Mobile App Development	ELMCS –02	E-Commerce
20	ENVIRONMENTAL SCIENCE	ELMES –01	Basics of Environmental Science	ELMES –02	Advances in Environmental Science
21	GEOGRAPHY	ELMG –01	Introduction to Physical Geography	ELMG –02	Geography of Karnataka
22	MATHEMATICS	ELMM –01	Fundamentals of Mathematics	ELMM –02	Combinatorics and Graph Theory
23	MICROBIOLOGY	ELMMB –01	Microbial World and Microbial Diversity	ELMMB –02	Microbes in Sustainable Agriculture and Development

24	PHYSICS	ELMP –01	Mechanics	ELMP –02	Waves and Optics
25	PSYCHOLOGY	ELMPHY –01	Introduction to Psychology	ELMPHY –02	Psychology in Everyday Life
26	INFORMATION TECHNOLOGY	ELMIT –01	Green Computing	ELMIT –02	E-Commerce
27	BOTANY (NEW)	ELMBOT –01	Plant-Microbe Interactions	ELMBOT –02	Plant Diversity and Human Welfare
28	ZOOLOGY (NEW)	ELMZ –01	Parasites Vectors & communicable diseases	ELMZ–02	Essential of Reproductive Health
29	FOOD AND NUTRITION SCIENCES	ELMFNS –01	Food Psychology	ELMFNS –02	Nutritional Management in Disaster Conditions

Note:

- A. I and II Semester Open elective (Interdisciplinary Electives) syllabus are attached in Annexure – I and Annexure - II respectively.
- B. The Students may contact respective department chairperson in case of any queries regarding open elective course. The contact details available in the university website.

4.2 Minimum for a Pass

35% in each Paper/Course and 40% on the aggregate of Internal Assessment and Term-end Examination marks put together 40% in the aggregate for Paper/Course exemption. Besides, this 35% in University Examination and 40% marks in aggregate of Internal Assessment and University Examination.

4.3 Classification of Successful Candidates

First Class with Distinction	70% and above
First Class	60% and above but less than 70%
Second Class	50% and above but less than 60%
Third Class	40% and above but less than 50% and all repeaters.

4.4 Reappearance

A Candidate declared to have failed in any Course or Paper at M.A Degree Examination is permitted to reappear for the failed Course/Paper.

The number of such chances is restricted to four including the first appearance to be utilized within four years from the first appearance. The syllabus and scheme of examination in force on the date of such subsequent appearance are to be followed.

4.5 Improvement of Class

A Candidate who has passed the M.A in Education Degree examinations is permitted to reappear for any semester examination, without rejecting the result so obtained for the purpose of improving the results and finally choose the marks/results to his advantage.

Provided that:

- the number of such chances for reappearance shall be restricted to three to be utilized within four years of the first appearance
- the application for such appearance shall be made at least 60 days before the commencement of the examination(preferably during July)
- the candidate shall take the examination as per the syllabus and scheme of examination in force on the date of such subsequent appearance
- a candidate cannot avail himself of this facility after applying for obtaining the M.A in Education Degree Certificate/Provisional Certificate. If already taken they must be surrendered with the application for improvement/reappearance. The Examination fee for such reappearance should be paid only after the permission is accorded to the candidate.

5.0 RULES

5.1 Rules of the University

1. No candidate admitted to a degree programme in the University shall be permitted to study simultaneously any other programme leading to a degree in this or any other University. However, a candidate can study a Diploma or a Certificate programme along with a Degree or Post-Graduates Programme with prior permission of the University.

2. If a candidate gets admitted to more than one Post Graduate or Degree Programme the University shall cancel his/her admission to both the programmes, which he/she had joined without giving prior notice.
3. Any student who is found to have concealed information about his/her age, qualification etc., or violated any provisions, is liable to be removed from the rolls forthwith and will be deprived of the benefits of attendance, examination, results, awards etc., in the programme concerned, apart from appropriate disciplinary action and imposition of penalties.
4. Students who have discontinued their studies after passing the M.A in Education First Year Examination from another Department/College affiliated to any recognized University are eligible for admission to the Second Year M.A in Education in this University as per the regulations prescribed by the University on a payment of a re-enrolment fee of Rs. 1000/-. Such candidates should enclose with the application form.
 - a) The application for obtaining Transfer Certificate in original from the college last studied.
 - b) The original statement of marks issued by the University and
 - c) Prior permission from the University
5. Candidates shall abide by the Rules and Regulations in force and those to be issued by the University from time to time.
6. False declaration of Age, Qualification etc., by the candidate will disqualify his/her admission to the University.
7. All legal disputes, if any, shall come under the jurisdiction of Mysuru city only.
8. The offices of the University and library will remain closed on the Second Saturday of every month, all Sundays and General Holidays.
9. This prospectus provides all necessary information you need as a student of the University. You are therefore advised to keep the prospectus till you complete your programme. Avoid unnecessary correspondence about the detail already available in this prospectus.
10. Student's letters must be brief. They shall mention their Roll No. and Class and are advised to keep a copy of their correspondence with the University.
11. To receive the Degree Certificate after passing the examination, a student should directly apply to the Registrar(Evaluation), Karnataka State Open University, Mukthagangothri, Mysuru- 570 006, in the prescribed application form. Other details may be obtained from the university after the press notification about the Convocation.
12. To obtain the Migration Certificate a student should apply to the Registrar(Evaluation), KSOU, Mysuru – 570 006, in the prescribed form by paying the prescribed fee.
13. Transfer Certificate will not be issued to the student. It will be sent to the institution where the student pursues his/her further studies. However, the students have to obtain No Due Certificate from the University before applying for Transfer Certificate/Migration Certificate.
14. Provisional Pass Certificate will be issued by the Registrar(Evaluation), KSOU, Mysuru- 570 006, on request and on payment of prescribed fee, after the declaration of result by the University.
15. If the original identity Card is lost, duplicate card may be obtained from the office on payment of Rs. 170/- through quadruplicate challan (08-KSOU Account).
16. Any change of address should be intimated to the University. However, it may be noted that any change of address in the middle of the academic year will cause unavoidable delay or loss in the postal transit.

17. The University will send lessons by Registered Post. All circulars, letters, examination notifications and such other correspondences by ordinary post only. The candidate can also collect the above from the nearest Study Centre or from the Head-quarters.

6.0 LIBRARY

6.1 Library Facilities

The library is open to all bona fide students of the University. It has a collection of over 68,000 books. The library works from 10.00 AM to 5.30 PM. It is open on all working days. All the students of the University can become members of the library, immediately after getting their Identity Card by filling in an application form for membership and on payment of a refundable caution deposit. It should be signed by the Registrar or any other authorized officer of the University. The student will be issued with two Borrower's Ticket against which two books can be borrowed. Enrolment will stop one month before the commencement of the Examination.

The student can use the library for reference and also for borrowing books during the academic year. Borrowed books can be kept for a period of sixty days. A fine of Rs. 1-(one) per day per book will be charged as over-due charges after the due date.

Books and Borrower's Ticket should be returned to the library at the end of the academic year. On return of these, the Identity Card will be endorsed to enable the office to issue the admission ticket for the annual examination.

Every member should bring the Identity Card to the library to be shown on demand.

Refund of caution deposit will be made only after the student complete the programme and obtains No Due Certificate from the University. The amount will be refunded only on an application enclosing the receipt for having remitted the caution deposit. The caution deposit amount will be sent only by Cheque/Demand Draft to the address of the student.

More information can be obtained from the Librarian.

7.0 DETAILS OF SYLLABUS

I SEMESTER

H.C 1.1 PHILOSOPHY OF EDUCATION

Block-1 INTRODUCTION

Unit-1 Philosophy of Education

Unit-2 Meaning of Philosophical Inquiry

Unit-3 Philosophical Framework in Education

Unit-4 Conceptual Analysis of 'Education' and Related Concepts

Block-2 PHILOSOPHICAL ANALYSIS OF EDUCATIONAL PROCESSES

Unit-5 Child-Centered and Student Centered Education

Unit-6 Learning Society and Life-long Education

Unit-7 Open Distance Learning (ODL)

Unit-8 Freedom and Discipline

Block-3 EPISTEMOLOGY AND AUXIOLOGY OF EDUCATION

Unit-9 Epistemology of Education

Unit-10 Auxiology of Education

Unit-11 Types of Values and Value Hierarchy

Unit-12 Value Education

Block-4 MAJOR SCHOOLS OF PHILOSOPHY OF EDUCATION

Unit-13 Idealism and Education

Unit-14 Naturalism and Education

Unit-15 Pragmatism and Education

Unit-16 Realism and Education

References:

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2. Donald Butler – Four Philosophies and Their Practices in Education and Religion.
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6. Chaube Y. – Some Foundations and Guidelines of Modern Education.
7. Gaiind and Sharma – Educational Theories and Modern Trends.
8. Horne H.H – The Democratic Philosophy of Education.
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10. Setranjiwala – Philosophical and Sociological Foundations of Education.
11. Taneja V.R – Foundations of Education.
12. Kilpatrik – Philosophy of Education.
13. Park Joe – Selected Readings in Philosophy of Education.
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15. Dr. Hiriyananna – Outlines of Indian Philosophy.
16. S.K. Murthy – Philosophical and Sociological Foundations of Education.
17. Dhiman O.P – Principles and Techniques of Education.

HC 1.2 - SOCIOLOGY OF EDUCATION

BLOCK-1: EDUCATION AND THE SOCIAL SYSTEM

Unit-1 Sociological Approach to Education

Unit-2 Culture

Unit-3 Socialization and Education

Unit-4 School as a Social System

BLOCK-2: EDUCATION AND SOCIAL ORDER

Unit-5 Social Stratification and Social Mobility

Unit-6 Group Conflicts and Prejudices

Unit-7 Socialistic Pattern of Society

Unit-8 Social Control and Education

BLOCK-3: EDUCATION AND MODERNIZATION

Unit-9 Modernization, Concept and Characteristics

Unit-10 Social Change – Concept, Types

Unit-11 Advances in Science and Technology – The Emergence of Knowledge Society

Unit-12 Role of Media in Modernization

BLOCK-4: EDUCATION OF THE DISADVANTAGED GROUPS

Unit-13 Disadvantaged Group – Meaning, Types

Unit-14 Education of Women

Unit-15 Education of SC/ST Groups

Unit-16 Education of Differently Abled Children

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HC 1.3 PSYCHOLOGY OF EDUCATION

BLOCK-1 FOUNDATIONS OF BEHAVIOUR

Unit-1 Educational Psychology

Unit-2 Genetic Determinants of Behaviour

Unit-3 Introduction to Human Nervous System

Unit-4 Biochemical and Environmental Determinants of Behaviour

BLOCK-2 DIMENSIONS OF DEVELOPMENT

Unit-5 Growth and Development

Unit-6 Physical and Social Development

Unit-7 Cognitive and Language Development

Unit-8 Emotional and Moral Development

BLOCK-3 THEORIES OF LEARNING

Unit-9 Classical and Operant Conditioning Theories

Unit-10 Observational and Meaningful Reception Learning

Unit-11 Gestalt Learning

Unit-12 Issues Related to Learning

BLOCK- 4 INDIVIDUAL DIFFERENCES AND PERSONALITY

Unit-13 Individual Differences - I

Unit-14 Individual Differences - II

Unit-15 Personality

Unit-16 Assessment of Personality

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SC 1.1(A) FUNDAMENTALS OF EDUCATIONAL TECHNOLOGY

BLOCK-1 INTRODUCTION TO EDUCATIONAL TECHNOLOGY

- Unit-1 Basic Concepts of Educational Technology
- Unit-2 Impact of Educational Technology on Indian Education
- Unit-3 Scientific Bases of Educational Technology
- Unit-4 Impact of Educational Technology on Teaching and Learning Process

BLOCK-2 SYSTEMS APPROACH TO INSTRUCTION

- Unit-5 Systems Approach
- Unit-6 Components of an Instructional System
- Unit-7 Software and Hardware in Instructional System
- Unit-8 Development of an Instructional System

BLOCK-3 INDIVIDUALIZED INSTRUCTION AND PERSONNEL IN EDUCATIONAL TECHNOLOGY

- Unit-9 Individualized Instruction
- Unit-10 Techniques of Individualized Instruction
- Unit-11 Personnel in Educational Technology
- Unit-12 Training of Personnel in Educational Technology

References:

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2. Ananda Rao B. and Ravishankar, 'Readings in Educational Technology' Himalaya Publishing House, Bombay.
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SC 1.1 (B) EDUCATIONAL ADMINISTRATION

BLOCK-1 INTRODUCTION

- Unit-1 Concept of Administration
- Unit-2 Levels of Educational Administration
- Unit-3 Human Relations in Educational Administration
- Unit-4 Educational Administration

BLOCK-2 EDUCATIONAL SUPERVISION

- Unit-5 Meaning and Importance
- Unit-6 Administrative Inspection and Academic Supervision
- Unit-7 Guidance in Curriculum Planning and Implementation
- Unit-8 Supervisory Systems and Practices

BLOCK – 3 EDUCATIONAL ADMINISTRATIONS IN KARNATAKA

- Unit-9 Higher Education
- Unit-10 Secondary Education
- Unit-11 Primary Education
- Unit-12 Research and Training in Educational Administration

References:

1. Steplen P. Robbins – The Administrative Process, Integrating Theory and Practice, Prentice hall of India Pvt. Ltd. New Delhi.
2. J.F. Weston and E.F. Prigham – Essentials of management, Holf, rinehard and Winstop. Inc.
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SC 1.2 (A) ICT AND SCHOOL EDUCATION

BLOCK 1: ICT ENABLED SCHOOL EDUCATION

- Unit-1 Meaning and Concept of ICT Enabled School Education
- Unit-2 Policies and Schemes for ICT Enabled School Education
- Unit-3: Inclusive School Education and ICT
- Unit-4: Issues in ICT based School Education

BLOCK 2 ICT ENABLED TEACHING AND EVALUATION

- Unit-5: ICT Strategies in School Education
- Unit-6: Interactive Tools and Simulations for Teaching

Unit-7: Learning Management Systems (LMS)

Unit-8: ICT Enabled Evaluation

BLOCK-3 ICT IN SCHOOL MANAGEMENT AND ADMINISTRATION

Unit-9: Applications of ICT for School Administration and Management

Unit-10: Record Keeping and Scheduling

Unit-11: School Management Information Systems

Unit-12: ICT Infrastructure for Schools

References:

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SC 1.2 (B) LEADERSHIP IN EDUCATION

BLOCK – 1 INTRODUCTION TO LEADERSHIP

Unit-1 Concept of Leader and Leadership

Unit-2 Leadership Styles

Unit-3 Characteristics of Leaders

Unit-4 Functions of Leaders

BLOCK – 2 DYNAMICS OF HUMAN RELATIONS

Unit-5 Characteristics of Human Relations

Unit-6 Factors Affecting Human Relations

Unit-7 Group Conflicts

Unit-8 Role of Leader in Maintaining Human Relationships

BLOCK – 3 RELATIONSHIP ENHANCEMENT

Unit-9 Techniques of Relationship Enhancement

Unit-10 Parent-Child Relationship Enhancement

Unit-11 Teacher-Pupil Relationship Enhancement

Unit-12 Pupil-Pupil Relationship Enhancement

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II SEMESTER

HC 2.1 CURRICULUM – PRINCIPLES AND PLANNING

BLOCK-1 CURRICULUM AND ITS IMPORTANCE

- Unit-1 Curriculum and its Nature
- Unit-2 Historical Development of Curriculum
- Unit-3 Foundations of Curriculum
- Unit-4 Styles of Curriculum Theorizing

BLOCK-2 PATTERNS OF CURRICULUM

- Unit-5 Educational Objectives
- Unit-6 Approaches of Curriculum Construction
- Unit-7 Criteria for Selection of Content
- Unit-8 Patterns of Curriculum

BLOCK-3 SYSTEMS APPROACH TO CURRICULUM DESIGNING

- Unit-9 System Approach to Curriculum Designing
- Unit-10 Models of System Approach
- Unit-11 Curriculum as System
- Unit-12 Curriculum Development

BLOCK-4 INSTRUCTIONAL MATERIALS

- Unit-13 Curriculum Syllabus
- Unit-14 Curriculum Implementation
- Unit-15 Curriculum Evaluation
- Unit-16 Curriculum Renewal

References:

1. Mahammed Shariff Khan, (1985) School Curriculum.
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HC 2.2 DISTANCE EDUCATION

BLOCK-1 INTRODUCTION

- Unit 1: Origin of Distance Education
- Unit 2: Distance Education
- Unit 3 Distance Education Institutions (DEI)
- Unit 4 **Learner**

BLOCK-2 SELF LEARNING PRINT MATERIAL

- Unit-5 Designing of Print Material
- Unit-6 Principles of Self Learning Material Design
- Unit-7 Preparation of Self-Learning Materials (Texts)
- Unit-8 Quality Assurance in Self-Learning Materials

BLOCK 3 MANAGEMENT OF DISTANCE EDUCATION

- Unit-9: Educational System Management
- Unit-10: Management of Distance Education
- Unit-11: Governance of KSOU
- Unit 12: Promotion and Co-ordination

BLOCK-4 LEARNER/STUDENT SUPPORT SERVICES

- Unit-13 Learner/Student Services
- Unit-14 Counselling Services
- Unit-15: Assignments
- Unit-16: Online Classes

References:

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HC 2.3 ELEMENTARY AND SECONDARY EDUCATION

BLOCK-1 DEVELOPMENT OF ELEMENTARY EDUCATION

- Unit-1 Elementary Education - Importance
- Unit-2 Issues of Elementary Education
- Unit-3 Approaches to Elementary Education
- Unit-4 Historical Development of Elementary Education

BLOCK-2 PROVISION TO ELEMENTARY EDUCATION

- Unit-5 Constitutional Provisions
- Unit-6 Contemporary Concerns of Elementary Education
- Unit-7 Critical Appraisal of Elementary Education
- Unit-8 Inclusive Education

BLOCK-3 HISTORICAL PERSPECTIVES AND ORGANIZATIONAL STRUCTURE OF SECONDARY EDUCATION

- Unit-9 Secondary Education - Issues
- Unit-10 Structure of Secondary Education
- Unit-11 Types of School
- Unit-12 Vocational Education at Secondary Level

BLOCK-4 UNIVERSALIZATION OF SECONDARY EDUCATION

- Unit 13 Universalization of Secondary Education
- Unit-14 Provision to Secondary Education
- Unit-15 Quality Issues in Secondary Education
- Unit-16 Research Issues in Secondary Education

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SC 2.1(A) AUDIO-VISUAL MEDIA IN EDUCATION

BLOCK-1 AUDIO MEDIA IN EDUCATION

- Unit-1 Communication Media
- Unit-2 Audio-Media: Radio
- Unit-3 Educational Radio Broadcasts
- Unit-4 Tape Recorder as an Aid of Instruction

BLOCK-2 VISUAL MEDIA IN EDUCATION

- Unit-5 Visual Media
- Unit-6 Projection Aids
- Unit-7 Other Projection Aids
- Unit-8 Graphic Aids

BLOCK-3 AUDIO-VISUAL MEDIA IN EDUCATION

- Unit-9 Audio-Visual Media in Education
- Unit-10 Television and CCTV
- Unit-11 Computer Applications in Education
- Unit-12 Issues Relating to Audio and Visual Media in Education

References:

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SC 2.1 (B) EDUCATIONAL PLANNING

BLOCK-1 INTRODUCTION

- Unit-1 Educational Planning
- Unit-2 School Mapping and School Survey
- Unit-3 Planning Process and Procedures
- Unit-4 Implementation and Monitoring of Educational Planning

BLOCK – 2 INSTITUTIONAL PLANNING

Unit-5 Institutional Planning
Unit-6 Implementation and Monitoring of Institutional Planning
Unit-7 Evaluation and Accreditation of Institutions
Unit-8 Issues and Trends in Educational Planning

BLOCK – 3 EDUCATIONAL FINANCE

Unit-9 Importance and Sources of Educational Finance
Unit-10 Income and Expenditure in Education
Unit-11 Principles of Financing
Unit-12 Concept of Accountability

References:

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SC 2.2(A) COMMUNICATION SKILLS

BLOCK 1 INTRODUCTION TO COMMUNICATION

Unit-1 Nature of Communication
Unit-2 Types of Communication and Communication Network
Unit-3 Language for Communication
Unit 4: Media in Communication

BLOCK 2 COMPONENTS OF VERBAL AND NON-VERBAL COMMUNICATION

Unit 5 Components of Non-Verbal Communication 1
Unit 6 Components of Non-Verbal Communication 2
Unit 7: Verbal Communication
Unit-8 Oral Communication Skills

BLOCK 3: LSRW SKILLS

Unit-9 Listening Skills

Unit-10 Speaking skills

Unit-11 Reading skills

Unit-12 Writing skills

References:

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SC 2.2 B - ECONOMICS OF EDUCATION

BLOCK-1 INTRODUCTION

Unit-1 Concept of Economics of Education

Unit-2 Education as Capital and Investment

Unit-3 Educational Thoughts of Economist

Unit-4 Education and Economic Growth

BLOCK-2 EDUCATION AND PRODUCTIVITY

Unit-5 Productivity of Education

Unit-6 Basic Education

Unit-7 Socially Useful Productive Work

Unit-8 Resources in Education

BLOCK- 3 RETURNS IN EDUCATION

Unit-9 Returns in Education

Unit-10 Education, Equity and Income Distributions

Unit-11 Brain Drain (Intellectual Migration)

Unit-12 Skill Development Programme

References:

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III SEMESTER

HC 3.1 TEACHING – THEORY AND SYSTEMS

BLOCK-1 NATURE OF TEACHING

- Unit-1 Concept of Teaching
- Unit-2 Approaches to Analysis of Teaching
- Unit-3 Theory of Teaching
- Unit-4 Theories of Teaching

BLOCK-2 STYLES, STRATEGIES AND SKILLS OF TEACHING

- Unit-5 Strategies of Teaching – I
- Unit-6 Strategies of Teaching – II
- Unit-7 Strategies of Teaching – III
- Unit-8 Teaching Skills and Activities

BLOCK-3 MODELS OF TEACHING

- Unit-9 Concept of Models of Teaching
- Unit-10 Models of Teaching – I
- Unit-11 Models of Teaching – II
- Unit-12 Models of Teaching – III

BLOCK-4 CLASSROOM INTERACTION AND TEACHING EFFECTIVENESS

- Unit-13 Classroom Interaction
- Unit-14 Interaction Analysis Systems
- Unit-15 Teaching Effectiveness
- Unit-16 Assessment of Teaching Effectiveness

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H.C 3.2 – EDUCATIONAL RESEARCH

BLOCK-1 INTRODUCTION

Unit-1 Methods of Acquiring Knowledge

Unit-2 Scientific Method

Unit-3 Levels of Research

Unit-4 Identification of Research Problem

BLOCK-2 EDUCATIONAL RESEARCH

Unit-5 Meaning of Educational Research

Unit-6 Hypotheses

Unit-7 Review of Related Literature

Unit-8 Variables

BLOCK-3 METHODS OF RESEARCH

Unit-9 Historical Research

Unit-10 Survey Method

Unit-11 Experimental Studies

Unit-12 Tools and Techniques of Data Collection

BLOCK- 4 ANALYSIS AND INTERPRETATION OF DATA

Unit-13 Sampling

Unit-14 Analysis of Data

Unit-15 Parametric Statistic

Unit-16 Non-Parametric Tests

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HC 3.3 WOMEN EDUCATION

BLOCK -1 INTRODUCTION

Unit-1 Women Education

Unit-2 History of Women Education

Unit-3 Women Education in India

Unit-4 Role of Indian Thinkers in Promoting Women Education

BLOCK-2 RECOMMENDATIONS OF NATIONAL COMMISSIONS AND POLICIES

Unit-5 Approaches to Women Education

Unit-6 Social Reform Movement for Women Education

Unit-7 Women Education and Commissions

Unit-8 Policy Perspectives of Women Education in India

BLOCK-3 PROVISIONS AND INITIATIVES TO WOMEN EDUCATION

Unit-9 Women Education and Initiatives of Govt. of India

Unit-10 Constitutional Provisions for Women Education

Unit-11 Women Education at Different Levels

Unit-12 Women Education and Society

BLOCK-4 ISSUES AND TRENDS IN WOMEN EDUCATION

Unit-13 Strategies of Women Education

Unit-14 Constraints to Women Education

Unit-15 Women Education and Non Formal Education

Unit-16 Perspectives, Issues and Concerns of Women Education

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SC 3.1(A) PRINT MEDIA IN EDUCATION

BLOCK-1 DEVELOPMENT OF MEDIA

Unit-1 Evolution and Methods of Printing
Unit-2 Writing for Print Media
Unit-3 Writing Features
Unit-4 Media Management

BLOCK – 2 PRINT MEDIA IN EDUCATION

Unit-5 Meaning and Types of Print Media
Unit-6 Text Books
Unit-7 Other Printed Instructional Materials
Unit-8 Principles of Preparation of Printed Educational Materials

BLOCK–3 SELF-LEARNING MATERIALS IN DISTANCE EDUCATION

Unit-9 Characteristics of SLMs
Unit-10 Format of SLM Writing
Unit-11 Principles of Preparation of SLMs
Unit-12 Study Skills

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SC 3.1 (B) - EDUCATIONAL MANAGEMENT

BLOCK-1 EDUCATIONAL MANAGEMENT

Unit-1 Concept of Educational Management
Unit-2 Educational Management
Unit-3 Innovations in Educational Management
Unit-4 Supervisory Systems and Practices

BLOCK-2 RESOURCES MANAGEMENT

Unit-5 Concept and Classification of Resources
Unit-6 Resources Mobilization and Utilization
Unit-7 Human Resource Development
Unit-8 Institutional Management

Block-3 PERSONNEL MANAGEMENT

Unit-9 Meaning and Functions

Unit-10 Service Amenities and Conditions
Unit-11 Job Satisfaction and Morale
Unit-12 Professional Development

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SC 3.2(A) MEDIA IN MASS COMMUNICATION

BLOCK-1 MEDIA OF MASS COMMUNICATION - I

Unit-1 Nature of Mass Communication
Unit-2 Traditional Media of Mass Communication
Unit-3 Growth of Mass Media in India
Unit-4 Print Media of Mass Communication

BLOCK-2 MEDIA OF MASS COMMUNICATION - II

Unit-5 Cinema as a Medium of Mass Communication
Unit-6 Radio and Television
Unit-7 Computers in Mass Communication
Unit-8 Impact of Media in Mass Communication

BLOCK-3 ETHICAL ISSUES OF COMMUNICATION

Unit-9 Propaganda and Education
Unit-10 Effects of Mass Media in Communication

Unit-11 Freedom of Speech and Communication
Unit-12 Media and Ethical Problems

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SC 3.2 (B) MANAGEMENT OF SOCIAL GROUPS

BLOCK – 1 SOCIAL GROUPS

Unit-1 Nature of Social Groups
Unit-2 Classroom as a Social Group
Unit-3 Psychology of Group Behaviour
Unit-4 Syntality and Synergy of Groups

BLOCK – 2 INTERACTION MODELS OF STUDYING GROUP INTERACTION

Unit-5 Interaction Model (Blake and Mouton)
Unit-6 Interaction Analysis of Category System (Flanders)
Unit-7 Transactional Analysis Model (Berne)
Unit-8 Situational Leadership Model (Hersy and Blanchard)

BLOCK – 3 ORGANIZATION AND MANAGEMENT OF GROUP INTERACTION

Unit-9 Group Interaction
Unit-10 Group Motivation
Unit-11 Management of Group Interaction
Unit-12 Decision Making

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SEC -1 STRESS MANAGEMENT

BLOCK-1 ISSUES AND CHALLENGES

- Unit-1 Introduction to Stress Management
- Unit-2 Understanding the Nature of Stress
- Unit-3 Strategies of Stress Management
- Unit-4 Prevention of Stress

BLOCK-2 STRESS MANAGING

- Unit-5 Strategies of Synthesis and Prevention
- Unit-6 Life Events and Stress
- Unit-7 Coping Styles or Strategies
- Unit-8 Managing Stress

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IV SEMESTER

H.C 4.1 - EVALUATION - THEORY AND PRACTICE

BLOCK-1 BASIC CONCEPTS OF EVALUATION

- Unit-1 Meaning and Need for Evaluation
- Unit-2 Principles and Functions of Evaluation
- Unit-3 Instructional Objectives and Evaluation
- Unit-4 Models of Evaluation

BLOCK-2 TOOLS AND TECHNIQUES OF EVALUATION

- Unit-5 Standardized Tests

Unit-6 Standardized Inventories
Unit-7 Adjustment Inventories and Projective Tests
Unit-8 Techniques of Evaluation

BLOCK-3 ACHIEVEMENT TESTING

Unit-9 Types of Achievement Tests
Unit-10 Planning and Construction of Objectives Type Test Items
Unit-11 Standardization of Achievement Test
Unit-12 Diagnosis and Remediation

BLOCK-4 TRENDS IN EXAMINATION SYSTEM

Unit-13 Examination System
Unit-14 New Trends and Innovations in Examination System
Unit-15 Programme Evaluation
Unit-16 Institutional Evaluation

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SC 4.1(A) ONLINE EDUCATION

BLOCK-1 ONLINE EDUCATION AND E-LEARNING

Unit-1 Online Education
Unit-2 Networks and Internet
Unit-3 E-Learning
Unit-4 E-Learning Tools

BLOCK-2 ONLINE LEARNING PLATFORMS AND OPEN EDUCATIONAL RESOURCES

Unit-5 Massive Open Online Courses (MOOCs)
Unit-6 Online Learning Platforms – I
Unit-7 Online Learning Platforms – II
Unit-8 Open Educational Resources (OERs)

BLOCK-3 E-CONTENT DEVELOPMENT AND ONLINE ASSESSMENT

Unit-9 E-Content
Unit-10 E-Content Development Tools
Unit-11 Online Assessment
Unit-12 Online Assessment – Tools

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SC 4.1(B) HUMAN RESOURCE DEVELOPMENT

BLOCK -1 INTRODUCTION TO HUMAN RESOURCE DEVELOPMENT

Unit-1 Meaning and Concept of Human Resource Development

Unit-2 Elements of Human Resource Development

Unit-3 Strategies of Human Resource Development

Unit-4 Approaches of Human Resource Development

BLOCK- 2 FRAME WORK OF HUMAN RESOURCE DEVELOPMENT

Unit-5 Mechanism of Human Resource Development

Unit-6 Framework of Human Resource Development

Unit-7 Policies of Human Resource Development

Unit-8 Constraints to Human Resource Development Design

BLOCK -3 EDUCATION AND HUMAN RESOURCE DEVELOPMENT

Unit-9 Human Abilities and Human Resource Development

Unit-10 Human Resource Development and Education

UNIT-11 Human Resource System

UNIT-12 Issues in Human Resource Development

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SC 4.2(A) THEORIES AND MODES OF COMMUNICATION

BLOCK-1 THEORIES OF COMMUNICATION

- Unit-1 Concept of Communication
- Unit-2 Mathematical Theory of Communication
- Unit-3 Linguistic Theory of Communication
- Unit-4 Theories of Mass Communication

BLOCK-2 THEORIES AND MODES OF COMMUNICATION

- Unit-5 Cybernetics
- Unit-6 Socio-Psychological Theories of Communication
- Unit-7 Verbal Communication
- Unit-8 Non-Verbal Communication

BLOCK-3 MODES OF COMMUNICATION

- Unit-9 Meta Communication
- Unit-10 Instructional Communication
- Unit-11 Instructional Communication Technology
- Unit-12 Barriers to Communication

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SC 4.2 (B) TRAINING AND ASSESSMENT OF LEADERSHIP

BLOCK – 1 LEADERSHIP TRAINING

Unit-1 Need for Leadership Training

Unit-2 Organizing Leadership Training Programmes

Unit-3 Role of Professional Organizations

Unit-4 Leadership Training in Educational Institutions

BLOCK – 2 ASSESSMENT OF LEADERSHIP

Unit-5 Assessment of Leadership

Unit-6 Case Histories and Rating Scales

Unit-7 Study of Personal Documents

Unit-8 Interview, Questionnaires and Situational Tests

BLOCK – 3 DETERMINING LEADERSHIP EFFECTIVENESS

Unit-9 Leadership Effectiveness

Unit-10 Self-Assessment

Unit-11 Strategies of Self-Management

Unit-12 Managing Learning and Study Behaviour

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SEC-2 LIFE SKILLS

BLOCK-1 INTRODUCTION

Unit-1 Life Skills

Unit-2 Personality

Unit-3 Motivation and Positivity

Unit-4 Self-Discovery

BLOCK-2 PERSONALITY

Unit-5 Inner Structure of Effective Personality

Unit-6 Personality Development

Unit-7 Team Work and Leadership Skills

Unit-8 Interview and Presentation Skills

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INTER- DISCIPLINARY COURSE (Open Elective) for First Semester

ವಿಭಾಗ- ಕನ್ನಡ

ಪತ್ರಿಕೆ-೬: ಆಧುನಿಕ ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಇತಿಹಾಸ EL 1.1 (ಕ್ರೆಡಿಟ್-೨)

ಬ್ಲಾಕ್-೧೯: ಆಧುನಿಕ ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಮುಖ್ಯ ಘಟ್ಟಗಳು

ಘಟಕ-೨೩: ಆಧುನಿಕ ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಹಿನ್ನೆಲೆ ಮತ್ತು ಪ್ರೇರಣೆಗಳು.

ಘಟಕ-೨೪: ನವೋದಯ ಪೂರ್ವ, ನವೋದಯ- ಬಿ.ಎಂ.ಶ್ರೀ., ಕುವೆಂಪು, ದ.ರಾ.ಬೇಂದ್ರೆ, ಶಿವರಾಮಕಾರಂತ, ಮಾಸ್ತಿವೆಂಕಟೇಶ್ ಅಯ್ಯಂಗಾರ್, ಕೆ.ಎಸ್. ನರಸಿಂಹಸ್ವಾಮಿ.

ಘಟಕ-೨೫: ಪ್ರಗತಿಶೀಲ ಮತ್ತು ನವ್ಯ: ಅನಕೃ, ಕಟ್ಟಿಮನಿ, ನಿರಂಜನ, ಚದುರಂಗ, ವಿ.ಕೃ. ಗೋಕಾಕ, ಅಡಿಗ, ಜಿ.ಎಸ್. ಶಿವರುದ್ರಪ್ಪ, ಶಾಂತಿನಾಥ ದೇಸಾಯಿ, ಅನಂತಮೂರ್ತಿ, ಯಶವಂತ ಚಿತ್ತಾಲ, ಲಂಕೇಶ್, ತೇಜಸ್ವಿ, ವೈದೇಹಿ, ವೀಣಾ ಶಾಂತೇಶ್ವರ, ವಿಜಯಾದಿತ್ಯ.

ಘಟಕ-೨೬: ಬಂಡಾಯ ಮತ್ತು ದಲಿತ:

ಬರಗೂರು ರಾಮಚಂದ್ರಪ್ಪ, ಬಿ.ಟಿ. ಲಲಿತಾನಾಯಕ, ಸಾರಾ ಅಬೂಬಕ್ಕರ್, ದೇವನೂರು ಮಹಾದೇವ, ಸಿದ್ದಲಿಂಗಯ್ಯ, ಅರವಿಂದ ಮಾಲಗತ್ತಿ, ಮೊಗ್ಗಿ ಗಣೇಶ.

ಬ್ಲಾಕ್-೨೦: ಆಧುನಿಕ ಕನ್ನಡ ಕಾವ್ಯ ಮತ್ತು ಸಾಹಿತ್ಯ ಪ್ರಕಾರಗಳು

ಘಟಕ-೨೭: ಕಾವ್ಯ ಪ್ರಕಾರಗಳು: ಭಾವಗೀತೆ, ಸುನೀತ, ಶೋಕಗೀತೆ, ಪ್ರಗಾಥ.

ಘಟಕ-೨೮: ಕಥನ ಕಾವ್ಯ, ಖಂಡ ಕಾವ್ಯ, ಮಹಾಕಾವ್ಯ.

ಘಟಕ-೨೯: ಸಾಹಿತ್ಯ ಪ್ರಕಾರಗಳು: ಕಥೆ, ಕಾದಂಬರಿ, ನಾಟಕ ಜೀವನ ಚರಿತ್ರೆ.

ಘಟಕ-೩೦: ಲಲಿತ ಪ್ರಬಂಧ, ಆತ್ಮಕತೆ, ಪ್ರವಾಸ ಸಾಹಿತ್ಯ, ಸಂಪಾದನೆ, ವಿಚಾರ ಸಾಹಿತ್ಯ, ವಿಜ್ಞಾನ ಸಾಹಿತ್ಯ

ಪರಾಮರ್ಶನ ಗ್ರಂಥಗಳು

೧. ಹೊಸಗನ್ನಡ ಸಾಹಿತ್ಯ: ಎಲ್.ಎಸ್. ಶೇಷಗಿರಿರಾವ್, ಕನ್ನಡ ಸಾಹಿತ್ಯ ಪರಿಷತ್, ಬೆಂಗಳೂರು, ೧೯೯೨

೨. ಯುಗಧರ್ಮ ಮತ್ತು ಸಾಹಿತ್ಯ ದರ್ಶನ: ಕೀರ್ತಿನಾಥ ಕುರ್ತಕೋಟಿ, ಮನೋಹರ ಗ್ರಂಥ ಮಾಲೆ, ಧಾರವಾಡ, ೧೯೯೧

೩. ಕನ್ನಡ ಸಾಹಿತ್ಯ ಇತಿಹಾಸ: ರಂ.ಶ್ರೀ. ಮಗುಳಿ, ಗೀತಾ ಬುಕ್ ಹೌಸ್, ಮೈಸೂರು, ೨೦೧೮

೪. ಕನ್ನಡ ಸಾಹಿತ್ಯ ಸಂಗಾತಿ: ಕೀರ್ತಿನಾಥ ಕುರ್ತಕೋಟಿ, ಕನ್ನಡ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಹಂಪಿ, ಹೊಸಪೇಟೆ, ೧೯೯೫

೫. ಕನ್ನಡ ಸಾಹಿತ್ಯ ಸಂಗಾತಿ: (ಪ್ರ.ಸಂ) ಬರಗೂರು ರಾಮಚಂದ್ರಪ್ಪ, ಕರ್ನಾಟಕ ಸಾಹಿತ್ಯ ಅಕಾಡೆಮಿ, ೨೦೧೮

೬. ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ: ತ.ಸು. ಶಾಮರಾಯ, ತಳುಕಿನ ವೆಂಕಣ್ಣಯ್ಯ ಸ್ಮಾರಕ ಗ್ರಂಥಮಾಲೆ, ಮೈಸೂರು, ೨೦೧೪

೭. ಹೊಸಗನ್ನಡ ಕಾವ್ಯ ಪ್ರಕಾರಗಳು: ಪ್ರಧಾನ ಸಂಪಾದಕರು, ಎ.ರಂಗಸ್ವಾಮಿ, ಲೇ. ಮ. ರಾಮಕೃಷ್ಣ, ಪ್ರಸಾರಂಗ, ಕರಾಮವಿ, ಮೈಸೂರು, ೨೦೧೦

ಲ. ಆಧುನಿಕ ಸಾಹಿತ್ಯ ಪ್ರಕಾರಗಳು: ಪ್ರಧಾನ ಸಂಪಾದಕರು, ಎ. ರಂಗಸ್ವಾಮಿ, ಲೇ. ಡಾ. ಜಿ.ಆರ್. ತಿಪ್ಪೇಸ್ವಾಮಿ, ಪ್ರಸಾರಂಗ,
ಕರಾಢುಢಿ, ಢೈಸೂರು, ೨೦೧೦

DEPARTMENT - ENGLISH

EL-1.1: INTER- DISCIPLINARY COURSE-I (OPEN ELECTIVE)

INDIAN LITERATURE-I

OBJECTIVES

- To help to understand the contribution of Kalidasa to Sanskrit drama as a playwright
- To create an awareness of the importance of Shakuntala and Mrichhakatika as classical Indian texts
- To evaluate Lord Macaulay and Raja Ram Mohan Roy writers of English Prose.
- To introduce the role of Autobiographies in Indian writing in English

BLOCK -I

Kalidasa: Shakuntala

Shudraka: Mrichhakatika

BLOCK -II

Jawaharlal Nehru: An Autobiography

Ram Mohan Roy: Letter to Lord Amherst

Macaulay: Minutes on Indian Education

Vivekananda: Address to the Parliament of Religions

Suggested Reading:

- **M.K.Naik:** Critical Essays on Indian Writing in English. Sahitya Akademi, 1969.
- **Narasimhaiah. C.D:** The Swan and the Eagle. Indian Institute of Advanced Study, 1987.
- **Meenakshi Mukherjee:** The Twice Born Fiction. Heinemann Educational Publishers, 1972.
- **Chirantan Kulshrestha.** Contemporary Indian English Verse: An Evaluation. Arnold-Heinemann, 1981.

DEPARTMENT - HINDI

व्यावहारिक हिंदी एवं व्याकरण

वर्ण विचार

- वर्ण
- स्वर और उसका वर्गीकरण
- व्यंजन और उसका वर्गीकरण
- वर्णों का उच्चारण स्थान
- संधि
- समास

शब्द विचार

- शब्द के भेद
- अर्थ के आधार पर शब्द भेद
- व्युत्पत्ति के आधार पर शब्द भेद
- रचना के आधार पर शब्द भेद
- प्रयोग के आधार पर शब्द भेद
- विकारी और अविकारी शब्द भेद
- अव्यय
- संज्ञा और उसके भेद
- वचन- उसके भेद, वचन परिवर्तन के नियम
- लिंग- उसके भेद, लिंग परिवर्तन के नियम
- काल और उसके भेद
- कारक और विभक्ति- उसके प्रकार,
- सर्वनाम और उसके भेद
- विशेषण और उसके भेद
- क्रिया और उसके भेद
- क्रिया विशेषण और उसके भेद
- समुच्चय बोधक और उसके भेद
- संबंधबोधक और उसके भेद
- विस्मयादिबोधक और उसके भेद
- परसर्ग और उपसर्ग
- वाच्य और उसके प्रकार

वाक्य विचार

- वाक्य का अर्थ और परिभाषा
- वाक्य के प्रकार आदि

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DEPARTMENT - TELUGU

E. L. 1.1 Thilak Prathyeka Adhyayanam

Block - 1:Thilak Kavithvam - 1

Unit - 1:Amrutham Kurisina Raathri

Unit - 2:Thilak Padhya Kavithaa Vaibhavam

Unit - 3:Thilak Abhiruchulu - Alavaatlu

Unit - 4: Thapala bantrothu

Block - 2: Thilak Kavithvam

Unit - 1:Thilak Sahithya Parichayam - 1

Unit - 2: Thilak Sahithya Parichayam - 2

Unit - 3:Thilak vachana kavithaa Vaibhavam - 1

Unit - 4: Thilak Vachana Kavithaa Vaibhavam – 2

DEPARTMENT - HISTORY

ANCIENT WORLD CIVILIZATIONS

(Egypt, Mesopotamia, Greek, Roman, Inca, Chinese)

Objective: The course is aims to understand major world civilizations. It is to provide a global historical perspective of ancient world which special reference to Egypt, china, Greek, Roman, Inca civilizations.

Pedagogy: personal contact programmes, audio video programmes, online lectures
Assignments, etc

Credits: 2.

Examination Duration: 11/2 hours and Maximum Marks:40

Course outcomes:

After completing this course the students should be able to

- Discuss the Egyptian and Mesopotamian civilizations.
- Analyse the political socio economic conditions of Greek Roman civilizations.
- Evaluate the Chinese contributions to ancient world.

Block – I

Unit-1

Egyptian Civilization: Importance of the Nile, Geographical importance, Gift of Nile, Political conditions.

Unit-2

Social, Economic and religious conditions, Literature and learning, arts and architecture.

Unit-3

Mesopotamian Civilization, Sumer and Babylonian, Hammurabi's code, Society and Culture, Economic conditions, art and literature, Assyrian Empire.

Unit - 4

Greek Civilization, Political Organizations, the city, State, Alexander the Great, Greek political theory, Religion, Philosophy, art and architecture, Characteristic of Hellenistic Civilization.

Block – II

Unit - 5

Roman Civilization, The Land and the people, the Government, Roman Republic, Roman Empire, Roman Republic, The Empire, The Patricians and Plebeians, Punic wars.

Unit – 6

Julius Caesar, his wars, fall Augustus Caesar, Social Economic Conditions, Roman art and architecture.

Unit - 7

Painting, Sculpture, Roman Law, Roman Religion, Philosophy, Roman literature, Decline of the Roman Empire.

Unit - 8

Inca Civilisation, Socio – economic Political conditions, Chinese Civilisation, Socio – economic Political conditions.

Suggested readings:

1. Breasted, J.H. : Ancient Times, A History of the early world.
2. Rostovzeff, M.S. : History of Ancient World
3. Schvieder, H. : The History of Civilization
4. Swain, J.E. : A History of World Civilization
5. Breasted, J.H. : History of Egypt
6. Jastrow, M. : The Civilization of Babylonia and Assyria
7. Bury, J.E. & OTHERS: The Hellenistic Age
8. Bailey, C. : The Legacy of Rome and others
9. Abot, F.F.: Society and Politics of Ancient Rome

DEPARTMENT – ECONOMICS

EL1.1: Economic Policies of India Since 1991.

- **Objective:** To enable the Students to understand the economic policies of India in the era of new economic policy.
- **Pedagogy:** A Combination of Lectures, Group Discussion, Assignments.
- **Credits:** 2 ; Examination Duration: 1½ and Maximum Marks: 50 (Internal Assessment Marks = 10 and Semester-end Examination = 40)

Course Inputs

BLOCK – I: India's Economic Policies

UNIT : 1 Economic Policies in India Since 1991

Economic reforms in India – Economic Scenario in India during 1990-91 – Domestic Financial Crisis – Balance of Payment Crisis – Extent of External debt and debt Trap Problem.

UNIT : 2 Need for Reforms

Measures Taken – Devaluation – Privatization – Liberalization – Globalization.

UNIT : 3 Monetary Policy and Fiscal Policy

Narasimhan Committee on Banking and Financial Sector Reforms Since 1998 – Fiscal Reforms: Raja Chellaiah Committee and Tax Reform Policies – Fiscal Prudence and Policies.

UNIT : 4 Structural Adjustments and External Sector in India

Foreign Trade: Trends in Exports and Imports – Balance of Payment and its Crisis – Export Import Policy – In Defence of Import Substitution – Foreign Exchange Policy.

BLOCK : II FDI and the Role of State

UNIT : 5 Foreign Direct Investment (FDI)

Trends in FDI – FDI Policy – Its Impact on the Domestic Economy – Labour Migration: causes and Consequences on Indian Economy – Information and Communication Revolution and India.

- UNIT : 6 Challenges to Development in India**
Poverty – Unemployment – Poverty alleviation Programmes - urban Poverty and Problems – Income Inequality – Employment Generating Schemes.
- UNIT: 7 The Role of State**
Parallel Economy in India – Black Money – Corruption – Slams – Redefining the Role of the State and the Markets – Balance between Economic and Socio - Political Goals.
- UNIT : 8 Administrative Reforms**
Rights to Information – Measures Towards Good Governance – NITI Ayoga and aftermath – Digitalized India – Demonetization – GST – Make in India.

References:

1. Acharya Shankar, (2003) India's Economy: Some Issues and Answers, Academic Foundation, New Delhi.
2. Byres J Terence (Ed.) (1999) The Indian Economy, Major Debates since Independence, OUP, New Delhi.
3. Datt Ruddar, (2002) Economic Reforms in India - A Critique, S.Chand and Co, New Delhi.
4. Kapila Uma (Ed) (2015) Indian Economy since Independence, Academic Foundations, New Delhi.
5. Kapila Uma, (2005) Understanding the Problem of Indian Economy, Academic Foundation, New Delhi.
6. Misra S.K. & V.K. Puri, (2011) Indian Economy-Its Development Experience, Himalaya Pub., House, Mumbai.
7. NCAER, Economic and Policy Reforms in India, NCAER, New Delhi.
8. Rangarajan C, (1998) Indian Economy- Essays on Money and Finance, UBSPD, New Delhi.
9. Sachs D.Jeffrey, A.Varshney & N Bajpai (Ed)(1999) India in the Era of Economic Reforms,OUP, New Delhi.
10. Vaidyanathan A, India's Economic Reforms and Development, OUP, New Delhi

DEPARTMENT - POLITICAL SCIENCE

(OEL-I) Local Government in India

Block-I

- Unit:1 Meaning, Nature and Scope of Local Governments.
- Unit:2 Evolution of Panchayat Raj Institution in India.
a) Constitute Assembly and Village Panchayat.
b) Balavanth Roy Mehta Committee Report
c) Ashok Mehta Committee Report.
d) G.V.K. Rao Committee Report.
- Unit:3 Constitutional Amendments and Panchayat Raj Institutions:
a) Basis of Constitutional Amendment.
b) 73rd and 74th Constitutional Amendment.
c) Karnataka Panchayat Raj At of 1983.
d) Karnataka Panchayat Raj Act of 1993.

Unit:4 Zilla Panchayat: Structure, Functions and Sources of Revenue.

Block-II

Unit:5 Taluk Panchayat : Structure, Functions, Executive Officer, Powers and Functions.

Unit:6 Gram Panchayat: Gram Sabha, Ward Sabha: Structure, Functions and Sources of Revenue.

Unit:7 Panchayat Development Officer and Secretary: Powers and Functions.

Unit:8 Role of Panchayat Raj Institutions in Development (with Reference to Karnataka)

a) Panchayat Raj in Rural Development.

b) Social Change: Empowerment of the Weaker Sections.

References:

1. Verma B. M, Social justice and Panchayath Raj
2. Mutarib-M.A. and Others, Theory of Local Government,
3. Dr. Arjun darshankar, Panchayath Raj aani Nagari.
4. V. B. Patil, Pancayath Raj.
5. A.N. Kulkarni, Bharatiya Sthanik Swashasan,
6. Shantaram Bhosale, Bharatiya Sthanik Shasan,
7. Kikherji. S, Essays on Rural Development.
8. Balaramu. C. H. Administration of Anty Poverty Programmes.
9. 73rd Constitutional Amendment Act, Government of India, 1993.
10. Karnataka Panchayatraj Acts, 1985, 1995.

DEPARTMENT – PUBLIC ADMINISTRATION

INDIAN POLITY – I

BLOCK – 1

UNIT – 1 Indian Constitution. .

UNIT – 2 Preamble - Meaning and Importance.

UNIT – 3 Fundamental Rights and Duties.

UNIT – 4 Directive Principles of State Policy and Relation with Fundamental Rights.

BLOCK – 2

UNIT – 5 Indian Federalism and Parliamentary system of Government.

UNIT – 6 Centre - State Relations. Legislative Administrative and Financial

UNIT – 7 Union Executive - President Elections, Powers and Positions. .

UNIT – 8 Council of Ministers and Prime Ministers - Powers and Functions

DEPARTMENT - SOCIOLOGY

Invitation to Sociology

(02 Credits)

Course Description

This course introduces learners to the basic concepts of sociology. It is particularly designed to orient the learners from interdisciplinary background about the essence of sociology and intends to inculcate sociological imagination.

Course Objectives

- To introduce the learner to the basic concepts and processes of sociology
- to comprehend the structural and organizational aspects of society
- to examine the process of social change

Learning Outcomes and Competencies

After successfully completing the course, following outcomes and competencies are possible among the learners. Learner will have/can

- Conceptual precision and clarity about the basic sociological concepts
- Develop sociological imagination and apply to analyze the contemporary events
- explain major social processes of society
- analytical view about Indian social structure
- explicate major process of social change and can conceptualize the changing aspects of Indian society

Course Contents

Block-1 Basic Concepts and Processes

Unit-1 Emergence of Sociology-Factors and Early Thinkers-Sociological Imagination

Unit-2 Society, Community- Associations and Institutions- Culture and Socialization

Unit-3 Social System, Structure and Function

Unit-4 Social Processes-Cooperation, Competition, Conflict, Accommodation and Assimilation

Block-2 Social Organization and Social Change

Unit-5 Caste and Class System-Changes in Caste

Unit-6 Social Mobility and Types

Unit-7 Factors of Social Change

Unit-8 Process of Social Change in India (Sanskritization, Westernization, Modernization and Globalization)

References

1. Berger, Peter L. 1978. An Invitation to Sociology, Allen and Unwin, London. Davis, Kingsley. Human Society, Macmillan, New Delhi.
2. Dumont, Louis, 1988, Homo Hierarchicus. Oxford University Press. Giddens, Anthony. 2009. Sociology. Politi Press, Malden.

3. Inkles, Alex. 2002. What is Sociology, Prentice Hall India, New Delhi. Jayaram, N, 1990, Introductory Sociology, Macmilan, New Delhi.
4. Johnson Harry M., 2011: Sociology: A Systematic Introduction: Allied Publishers, New Delhi.
5. MacIver, R.M and C.H. Page. Society - Introduction to Sociology, Macmilan, New Delhi
6. Samuel, Koenig. 1957. Sociology: An Introduction to Science of Society, Barnes & Nobel Books, London.
7. Singh, Yogendra. 1993: Social Change in India: Crisis and Resilience, Har-Anand, New Delhi.

DEPARTMENT – ANCIENT HISTORY AND ARCHEOLOGY

AHA
OE 1.1

World Heritage Sites of India

Block - 1

Introduction

- Unit - 1 Nature - Scope - Criteria for incorporation of World Heritage sites
- Unit - 2 Types of World Heritage sites in India

Block - 2

Archaeological and Cave Heritage sites

- Unit - 3 Bimbetka - Sanchi- Nalanda – Champaner - Dholavira
- Unit – 4 Ajanta – Ellora - Elephant

Block - 3

North Indian World Heritage Sites

- Unit – 5 Bodh Gaya — Kajuraho–Konarak–Rani kivav– Jaipur,
- Unit – 6 Agra Fort – Red Fort - FatehpurSikri–Taj Mahal – Humayun’s Tomb –
Ahamadabad, Qutub Minar

Block - 4

South Indian World Heritages Sites

- Unit – 7 Mahabalipuram – Pattadakallu – Chola temples
- Unit - 8 Monuments of Hampi – Churches and Convents of Old Goa – Ramappa Temple

References:

1. Marco Canneo, Jasmina: The world heritage sites of UNESCO – The Treasure of Art
2. ASI: World Heritage Sites Series
3. Individual guide: Books on respective city Individual

DEPARTMENT – COMMERCE

EL1.1: Personal Financial Planning

Objective: To enable the Students to understand about the different Investment Avenues, Saving Schemes designed by various agencies particularly for the individuals.

Pedagogy: A Combination of Lectures, Group Discussion, Assignments.

Credits: 2

Examination Duration: 1¹/₂ and Maximum Marks: 50

(Internal Assessment Marks = 10 and Semester-end Examination =40)

Course Inputs

Block I

- **Unit -1: Introduction to Financial Planning:** Introduction - The Process Financial Planning – Client Interactions – Time Value of Money Applications – Personal Financial Statements – Cash Flow and Debt Management – Planning to Finance Education.
- **Unit -2: Financial Planning Process:** Introduction - Setting Goals – Informal Budget Preparation – Investment Opportunities – Financial Vs Physical Investments – Role of a Financial Planner.
- **Unit -3: Savings Plans:** Introduction - Setting Goals – Savings Instruments – Savings Plan – Tax Savings Schemes.
- **Unit -4: Investment Planning:** Introduction - Risk Return Analysis – Mutual Fund – Derivatives – Asset Allocation – Investment Strategies and Portfolio Construction and Management.

Block II

- **Unit -5: Risk Analysis and Insurance Planning:** Introduction - Risk Management and Insurance Decision in Personal Financial Planning – Various Insurance Policies

and Strategies for General Insurance – Life Insurance – Motor Insurance – Medical Insurance.

- **Unit -6: Retirement Planning and Benefits:** Introduction - Retirement Need Analysis Techniques – Savings and Investment Plans for Retirement –Employee Provident Fund – Public Provident Fund – Superannuation Fund – Gratuity – Annuity Plans.
- **Unit -7: Tax Planning:** Introduction - Income-tax Computation for Individuals – Companies - Trust and other bodies – Statutory Provisions Pertaining to Capital Gains and Indexation – House Property – Deduction and Allowances.
- **Unit -8:Health Financing:** Introduction - Health Financing Models – Financing of Health in India – National Rural Health Mission – Challenges of Access to Health Care and Service Quality – Health Insurance Mechanism & Financial Protection.

Books Recommended for Reference

01. Khan M.Y, Financial Services, Tata MacGraw Hill.
02. Singhanar V.K, Students’ Guide to Income Tax, Taxmann.
03. Ranganathan and Madhuamathi, Investment Analysis and Portfolio Management, Pearson Publications.
04. Gordon and Natarajan, Emerging Scenario of Financial Services, Himalaya Publishing House.
05. George Rejda, Principles of Risk Management and Insurance, Pearson.

DEPARTMENT - MANAGEMENT

COURSE: OE-1 : Disaster Management - Credit: 2

MBAS 459: DISASTER MANAGEMENT

Objectives	: The course aims at familiarizing the students with the concepts of disaster management, need for disaster management and its relevance.
Pedagogy	: Lectures, assignments, Industrial visits and practical exercises, discussions.

1. Understanding Disasters · Meaning, nature, characteristics and types of Disasters, Causes and effects, Disaster: A Global View, Disaster Profile of India, The Disaster Management cycle.
2. Geological and Mountain Area Disasters · Earthquakes · Volcanic Eruption · Landslides Snow Avalanches, Wind and Water Related Natural Disaster · Floods and Flash Floods · Droughts · Cyclones · Tsunamis, Man Made Disasters · Understanding Man-Made Disasters · Fires and Forest Fires · Nuclear, Biological and Chemical disaster · Road Accidents
3. Introduction to disaster Preparedness · Disaster Management: Prevention, Preparedness and Mitigation · Disaster Preparedness: Concept & Nature · Disaster Preparedness Plan · Disaster Preparedness for People and Infrastructure · Community based Disaster Preparedness Plan

4. Roles & Responsibilities of Different Agencies and Govt. · Roll of Information, Education, Communication & Training · Role and Responsibilities of Central, State, District and local administration. · Role and Responsibilities of Armed Forces, Police, Para Military Forces. Role and Responsibilities of International Agencies, NGO's, Community Based Org. (CBO's)
5. Technologies for Disaster Management · Role of IT in Disaster Preparedness · Remote Sensing, GIS and GPS · Use and Application of Emerging Technologies · Application of Modern Technologies for the Emergency communication. · Application and use of ICST for different disasters.
6. Disaster Mitigation · Disaster Mitigation: meaning and concept · Disaster Mitigation Strategies · Emerging Trends in Disaster Mitigation · Mitigation management · Role of Team and Coordination
7. Disaster Management in India Disaster Profile of India – Mega Disasters of India and Lessons Learnt Disaster Management Act 2005 – Institutional and Financial Mechanism National Policy on Disaster Management, National Guidelines and Plans on Disaster Management; Role of Government (local, state and national), Non-Government and Inter-Governmental Agencies. National Disaster management Authority.

References

1. Bryant Edwards (2005): Natural Hazards, Cambridge University Press, U.K.
2. Carter, W. Nick, 1991: Disaster Management, Asian Development Bank, Manila.
3. Central Water Commission, 1987, Flood Atlas of India, CWC, New Delhi.
4. Central Water Commission, 1989, Manual of Flood Forecasting, New Delhi.
5. Government of India, 1997, Vulnerability Atlas of India, New Delhi.
6. Sahni, Pardeep et.al. (eds.) 2002, Disaster Mitigation Experiences and Reflections, Prentice Hall of India, New Delhi.

DEPARTMENT - BIO CHEMISTRY

Basics of Bioinorganic and Biophysical chemistry for Biology graduates.

Bioinorganic chemistry

Coordination Compounds: Transition metals, properties (Colour, Oxidation states, Magnetic properties) Coordinate bond, double and complex salts– differences with examples.

Postulates of Warner's theory. Types of ligands: For examples: uni, bi, polydentate ligands. Coordination number, examples.

Porphyrin nucleus and their classification. Important metallo-porphyrins occurring in nature. Structure and biological importance of Heme, cytochrome, chlorophyll, Vitamin B₁₂.

Nitrogen, Fixation of atmospheric nitrogen – Symbiotic and non-symbiotic. Nitrogen cycle.

Environmental pollution by nitrogen compounds. Phosphorous: Importance of Phosphorous compounds in biological system, phosphorous cycle

Oxygen, Formation of ozone in atmosphere. Role of ozone in maintenance of life on earth. Effect of environmental pollutants on ozone layer.

Sulphur and Selenium, Importance of compounds of Sulphur and Selenium in biological systems. Effect of sulphur compounds on environmental pollution.

Biophysical chemistry.

Units in chemistry, Avogadro's number, Mole, Mole fraction, Molarity, Equivalent weight, Normality, Molality. Colligative Properties, Osmotic pressure and its measurements. Hypo-, Hyper- and isotonic solutions. Effect of osmotic pressure on living cells.

Donnan membrane equilibrium. Relative lowering of vapour pressure, Raoult's law. Elevation of boiling point, depression in freezing point.

Adsorption: Freundlich and Langmuir's adsorption isotherm. Applications of adsorption.

Viscosity: Definition, determination of viscosity of liquids & solutions by Ostwald's viscometer (solutions of gum and protein to be taken as examples).

Distribution law, Distribution law, partition coefficient, application of distribution law.

Acids, bases and buffers- Lewis concept of acids and bases. Ionic product of water. pH scale, buffers, Henderson- Hasselbach equation, buffer capacity Choice of buffers. Theory of acid base indicators. pH titration curve and iso-electric pH of amino acids.

Selected References:

1. Basic Principles of Organic Chemistry, Roberts and Caserio, W. A. Benjamin, Inc. (1964).
2. Organic Chemistry, Morrison and Boyd, Allyn and Bacon Inc (1992).
3. Principles of Inorganic chemistry by Cotton & Wilkinson, Wiley (1999).
4. Textbook of Organic chemistry by Ahluwalia V K & Madhuri G Narosa publications (2001).
5. Physical chemistry by Castellan G W, Narosa Publications (2004).
6. Physical chemistry by Chakraborty D K, Narosa Publications (2004).

DEPARTMENT - BIOTECHNOLOGY

MBT EL –I- Biotechnology and its Applications

Introduction to biotechnology. Principles of biotechnology, classification.

Recombinant DNA Technology

Introduction, outline of genetic engineering procedure, restriction endonucleases, cloning & expression vectors- plasmids, cloning in plasmid, transformation and detection of transformants- lacZ, genomic and cDNA libraries, gene analysis techniques-hybridization: Southern, Northern, Western, in situ, Polymerase chain reaction.

Microbial and food and environmental Biotechnology

Basics of fermentation technology: Types of microbial culture- batch, continuous and fed-batch. Microbial production: Use of microbes in production of vitamins, enzymes, organic acids, amino acids, polysaccharides, flavors, sweeteners, proteins and antibiotics.

Fermented food products- yogurt, cheese, tempeh, sauerkraut; beverages- wine and beer. Pre- and Pro-biotics, single cell proteins, Genetically modified foods, designer foods.

Current status of biotechnology in environment. Bioconservation, biofuels, gasohol, biogas. Bioremediation: Concepts and principles, bioremediation using microbes, in situ and ex situ bioremediation, biosorption and bioaccumulation of heavy metals.

Plant Biotechnology

Landmarks in Plant tissue culture. Types of cultures- embryo, organ, callus and cell cultures, Somatic embryogenesis, Haploid Production, Androgenesis, Protoplast culture and somatic hybridization. Micropropagation- Methods and stages, applications. Synthetic seeds, somaclonal variation. Production of secondary metabolites by plant cells, Biotransformation.

Plant transformation techniques: Direct and indirect methods of gene transfer in plants. Transgenic plants and crop improvement- herbicide tolerance, disease resistance, abiotic stress tolerance, delayed ripening, improvement of nutritional quality, molecular pharming.

Animal Biotechnology

Basics of animal cell culture techniques, cell lines, physical conditions for culturing animal cells, equipments required, scale-up of culture methods.

Application of animal cell culture- Hybridomas, production of therapeutic antibodies, stem cell technology, cell and tissue engineering.

Genetic engineering of animals: Methods for gene transfer in animals, microinjection, nuclear transplantation, retrovirus-mediated gene transfer, gene knockdown techniques. Transgenic- animals- sheep, pigs, cattle, chickens; applications of transgenic animals.

DEPARTMENT - CHEMISTRY

Block-1	Title: Periodic Table and chemical Periodicity
Unit-1	Elements, atomic structure, atomic number, atomic mass, quantum numbers, electronic configuration,
Unit-2	Periodic properties of elements, State of Matter, their resources. Important periodic properties of the elements, covalent radii, ionic radii, ionization potential, electron affinity and electronegativity
Unit-3	Concepts of Acids and Bases: Review of acid base concepts. Lux-Flood and solvent system concepts. Hard-soft acids and bases. Applications.
Unit-4	Solutions: Concentration units, solutions of liquids in liquids, Raoult's law, ideal

	and non-ideal solutions.
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Block-2	Title: Bonding and molecular structure
Unit-5	Calcification of matter: (elements, compounds, substance and mixture), The three states of matter, physical and chemical properties of matter, fundamental particles of atoms, atomic number, atomic mass, atomic structure of atom molecular formula, empirical formula, molecular mass.
Unit-6	Ions and ionic compounds, properties of ionic compounds, formation of ionic compounds, covalent compounds, properties of covalent compounds, properties of covalent compounds
Unit-7	Metals, properties of metals, theory of metallic bond formation, types of metals conductor, semiconductor and insulators, n-type semiconductors and p-type semiconductors, alloys and superconducting materials.
Unit-8	Acids and bases, general properties of acid and bases, Acid base reactions, oxidation reduction reactions, oxidation number, types of redox reactions, balancing oxidation-reduction equation, exothermic and endothermic reactions energy change in chemical reactions.

DEPARTMENT : CLINICAL NUTRITION AND DIETETICS

OEL-1: HEALTHY LIFESTYLES AND NUTRITION

3 Credits

BLOCK 1: INTRODUCTION TO FOOD AND NUTRITION

Unit 1.- Factors affecting food habits, choices and dietary patterns – Definition of Food, Nutrition, Health, Fitness. Interrelationship between nutrition and health, concept of a desirable diet for optimum nutrition, health and fitness.

Unit 2.- A brief review of nutrients in general –

- Energy and macronutrients – Carbohydrates, Protein, Fat - functions, sources deficiency disorders and recommended intakes.
- Micronutrients: Minerals – calcium, Iron, Iodine, and other elements, Vitamins – FatSoluble & Water Soluble.

Unit 3: Nutritional assessment- Anthropometric, biochemical, clinical, dietary and Biochemical assessments

Unit 4: Basic principles of planning diet –, RDA for Indians, Food groups, Dietary guides and balanced diets.

BLOCK 2: PLANNING OF DIET

Unit 5: Principles of planning a normal diet: characteristics of a normal diet, meeting nutrient requirements of individuals and family. Use of Dietary guidelines for Indians.

Unit 6: Objectives of diet therapy- Regular diet and rationale for modifications in energy and other nutrients, texture, fluid, soft diets etc.

Unit 7: Role of dietician in hospital- specific functions, team approach in patient care, psychological consideration, interpersonal relationship with patients. Nutrition and medical ethics. Hospital dietary- scope and importance, types of food service, quality management.

Unit 8: Nutrition counseling: definition, concept, role of clinical dietician, the recipient and counseling environment and goals of counseling. An overview of systems approach to nutritional care and its components (planning, implementation and evaluation).

REFERENCES

- Srilakshmi B (2004) Nutrition Science. New Age International (P) Ltd, Publishers.
- Kango M (2005) Normal Nutrition, Curing diseases through diet. First Edition CBS Publications. Paul S (2003) Text Book of Bio-Nutrition, Fundamental and Management. RBSA Publishers.
- Williams SR (2000) Nutrition and Diet Therapy. Sixth Edition C.V. Melskey Co.
- Mudambi SR and Rajagopal MV (1997) Fundamentals of Foods and Nutrition. New Age International (P) Ltd, Publishers.
- Swaminathan M (1999) Essential of Food and Nutrition. Vol I and II, Bappco publications, Madras.
- Corinne, H. Robinson 2010– “Normal and Therapeutic nutrition”, Oxford and IBH publishing company, Bombay.
- B. Srilakshmi – 2012 “Dietetics”, 4th edition, New age international publisher, Chennai

DEPARTMENT - COMPUTER SCIENCE

ELMCS-01 Mobile App Development: Credit 2

Block – I

- Unit-1:** Introduction to Mobile Computing: applications, a simplified reference model, Wireless Transmission:
- Unit-2:** Frequencies of radio transmission, signals, antennas, signal propagation, multiplexing, modulation, spread spectrum, cellular system.
- Unit-3** Media Access Control: motivation for a specialized MAC, SDMA, FDMA, TDMA, CDMA, and Comparisons.
- Unit-4:** GSM, DECT, Wireless LAN: Infrared vs. radio transmission, Infrastructure and ad-hoc networks, IEEE 802.11, HPERLAN, Bluetooth.

Block – II

- Unit-5:** Mobile Network Layer: mobile IP, dynamic host configuration protocol,
- Unit-6:** ad-hoc networks. Mobile Transport Layer: Traditional TCP, classical TCP improvements,
- Unit-7:** TCP over 2.5/3G wireless networks. File Systems, World Wide Web,
- Unit-8:** Wireless Application Protocol (WAP) and WAP 2.0.

Text book:

1. Jochen H. Schiller, Mobile Communications(2e)

Reference

1. Raj Kamal, Mobile Computing
2. Asoke K. Talukder, Roopa R. Yavagal, Mobile Computing
3. Mazliza Othman, Principles of Mobile Computing and Communications
4. Prasant Kumar Pattnaik, Rajib Mall, Fundamentals of Mobile Computing
5. Ivan Stojmenovic, Handbook of Wireless Networks and Mobile Computer
6. David Taniar, Mobile Computing Concepts, Methodologies, Tools, and Applications

DEPARTMENT - ENVIRONMENTAL SCIENCE

ESOEL-1: Basics of Environmental Science

Block I: Ecology and Environment

- Unit 1:** Definition, Principles and Scope. Biotic and abiotic factors of environment. Ecosystems: pond, forest, river, grassland and estuary ecosystems
- Unit 2:** Ecosystem – trophic structure, energy flow, food chain, food web, Ecological pyramids.
- Unit 3:** Population dynamics: Definition, population density, Natality, Mortality, Age structure, Growth pattern, population dispersion.
- Unit 4:** Biogeochemical cycle – types, sedimentary and gaseous cycles, N, C, S, P, O cycles. Rock and hydrological cycles.

Block II: Biodiversity and Conservation

- Unit 5:** Biodiversity, Definition, Types of Biodiversity, importance and roles.

Unit 6: Needs and benefits of biodiversity, Loss of biodiversity- causes and consequences, Need for conservation of biodiversity

Unit 7: Conservation strategies, endemic and exotic species, Red Data book, National parks, wildlife sanctuaries, biosphere reserves, biodiversity hotspots, wildlife protection act, biodiversity act, wetland conservation and management, Hotspots of biodiversity.

Unit 8: Project Tiger, Project elephant, Ramsar site and other conservation projects. Experts Committee Reports on Environmental conservation

DEPARTMENT - GEOGRAPHY

ELMG –01, Introduction to Physical Geography (Credit-2)

Block-1

Origin, Shape and Size of the Earth, Movement of the Earth- Rotation and Revolution, Effects of the movement of Earth, Coordinates -Latitude, Longitude and Time; Structure of the Earth,Rocks - types, significance, Weathering –types; Agents of Denudation - River, Glacier, Wind and Under Ground water; Structure and Composition of Atmosphere, Weather and Climate

Block-2

Atmospheric Pressure, Winds and Precipitation; Distribution of Land and Sea, Submarine Relief of the Ocean, Temperature and Salinity of Sea Water; Ocean Tides and Oceanic Currents- Atlantic, Pacific and Indian Oceans; Biosphere- Elements, Ecology, Ecosystem, World's Biomes, Biodiversity – Importance, Types and Conservation

References

1. B.S. Negi (1993) Physical Geography. S.J. Publication, Meerut
2. D.S.Lal (1998) Climatology. Chaitnya publishing house, Allahabad
3. K. Siddhartha (2001) Atmosphere, Weather and Climate. Kishalayya publication, New Delhi
4. R.N.Tikka (2002) Physical Geography. Kedarnath Ramnath & co, Meerut
5. William D. Thornbury (1997) Principle of Geomorphology. New Age International (Pvt Ltd.) New Delhi.

DEPARTMENT -MATHEMATICS

ELMM –01 - FUNDAMENTALS OF MATHEMATICS

(2 Credits)

Block-I: Number Theory: Natural numbers, integers, Real numbers, GCD, LCM, Prime numbers. Surds, Indices, Logarithms, Progressions, Arithmetic Progression, Geometric Progression, Harmonic Progression,

Block-II: Set Theory: Operations of Union, Intersection, Complement. Relations & Functions: Types of relations One-one, onto, Many-one functions, graphs of functions.

Mathematical Logic: Propositions, logical connectives, Methods of proofs.

Books for Reference:

1. Kolman and Busby: Discrete Mathematics, PHI.
2. S. L. Loney: The Elements of Coordinate Geometry, London Macmillan & Co.
3. B. S. Grewal: Higher Engineering Mathematics, 36th Ed., Khanna Pub.
4. S. Lipschutz and M. Lipson: Theory and Problems of Discrete Mathematics. Schaum Series. 2nd Ed. Tata McGraw Hill.

DEPARTMENT - MICRO BIOLOGY

Microbial World and Microbial Diversity

- i. Introduction to microbial world, Physiochemical and biological characteristics; Characteristics of Acellular microorganisms (Viruses); Baltimore classification, general structure with special reference to viroids and prions.
- ii. Binomial Nomenclature, Whittaker's five kingdom and Carl Woese's three kingdom classification systems and their utility.
- iii. Difference between prokaryotic and eukaryotic microorganisms
- i. General characteristics of Cellular microorganisms, types - archaebacteria, eubacteria, wall-less forms - MLO (mycoplasma and spheroplasts) with emphasis on distribution and occurrence, morphology, mode of reproduction and economic importance.
- ii. Structure, reproduction and economic importance of Mycoplasma.
- i. General concept of Phytoplanktons and Zooplanktons. Characteristics, occurrence, thallus organization and classification of Algae.
- ii. Cyanobacteria - occurrence, thallus organization, cell ultra structure, reproduction and economic importance. Applications of algae in agriculture, industry, environment and food.
- i. Historical developments in the field of Mycology including significant contributions of eminent mycologists.
- ii. General characteristics of fungi including habitat, distribution, nutritional requirements, fungal cell ultra- structure, thallus organization and aggregation, mode of reproduction and
- iii. Economic importance of fungi with examples in agriculture, environment, Industry, medicine and food.
- i. General characteristics, structure, mode of reproduction and economic importance of Actinomycetes with special reference to its application in medicine and industry.
- ii. General characteristics, occurrence, classification structure, reproduction and economic importance of Protozoa.

References:

1. Singh,R.P. General Microbiology. Kalyani Publishers, New Delhi (2007).

2. Aneja, K.R. Experiments in Microbiology, Plant pathology and Biotechnology, Fourth edition, NewAge International publishers.
3. Dubey, R.C. and Maheshwary, D.K. Text book of Microbiology. S.chand and company (1999).
4. Powar, C.B. and Dagainawal, H.F. General Microbiology. Vol-I and Vol- II, Himalaya Publishing House.
5. Chakraborty P. A Textbook Of Microbiology. New central book Agency (2005).
6. Prescott, M.J., Harley,J.P. and Klein, D.A. Microbiology. 5th Edition WCB Mc Graw Hill, New York, (2002).
7. Tortora, G.J., Funke, B.R. and Case, C.L. Microbiology: An Introduction. Pearson Education, Singapore, (2004).
8. Alcomo, I.E. Fundamentals of Microbiology. VI Edition, Jonesand Bartlett Publishers. Sudbury. Massachusetts, (2001).
9. Black J.G. Microbiology-Principles and Explorations. JohnWiley &Sons Inc. New York, (2002).
10. Pelczar, MJ Chan ECS and Krieg NR, Microbiology McGraw-Hill.
11. Willey, Sherwood, Woolverton. Prescott, Harley, and Klein's Microbiology McGraw-Hill publication
12. Tortora, Funke, Case. Microbiology. Pearson Benjamin Cummings.
13. JACQUELYN G. BLACK. Microbiology Principles and explorations. JOHN WILEY & SONS, INC.
14. Madigan, Martinko, Bender, Buckley, Stahl. Brock Biology of Microorganisms. Pearson
15. Tom Besty, D.C Jim Koegh. Microbiology Demystified Mc GRAW-HILL.

DEPARTMENT -PHYSICS

MP-EL1: Mechanics

BLOCK-A

Unit-1: Laws of Motion: Frames of reference, Newton's Laws of motion, Dynamics of a system of particles, Centre of Mass.

Unit-2: Momentum and Energy: Conservation of momentum, Work and energy, Conservation of energy, Motion of rockets.

Unit-3: Rotational Motion: Angular velocity and angular momentum, Torque, Conservation of angular momentum.

Unit-4: Gravitation: Kepler's Laws (statement only), Newton's Law of gravitation, motion of a particle in a central force field, satellite in circular orbit and applications, geosynchronous orbits, weightlessness, basic idea of global positioning system (GPS).

BLOCK-B:

Unit-5: Oscillations: Simple harmonic motion, differential equation of SHM and its solutions, kinetic and potential energy, total energy and their time averages, damped oscillations.

Unit-6: Elasticity-1: Hooke's law, stress-strain diagram, elastic moduli-relation between elastic constants, Poisson's ratio, expression for Poisson's ratio in terms of elastic constants, work done in stretching and work done in twisting a wire.

Unit-7: Elasticity-2: Twisting couple on a cylinder - determination of rigidity modulus by static torsion, torsional pendulum-determination of rigidity modulus and moment of inertia - q , η and θ by Searles method.

Unit-8: Special Theory of Relativity: constancy of speed of light, postulates of special theory of relativity, length contraction, time dilation.

DEPARTMENT -PSYCHOLOGY

EL-1 Introduction to Psychology 2 Credits

Block 1: Introduction to Psychology-I

Unit 1: Introducing Psychology -Definition, Scope, and goals

Unit 2: Branches of Psychology

Unit 3: Motivation

Unit 4: Emotions

Block 2: Introduction to Psychology-II

Unit 5: Sensation, Attention and Perception

Unit 6: Learning, Memory and Forgetting

Unit 7: Intelligence

Unit 8: Personality

References:

1. Charles G.Morris. Albert A. Maisto Psychology an Introduction , Prentice Hall. New Jersey.
2. Feldman, A. R., Understanding Psychology IV th Ed, 1996, McGraw Hill, New Delhi.
3. Morgan, King, Weisz &Schopler, Introduction to Psychology-V11 Ed,1993, Tata McGraw Hill, New Delhi.
4. Ernest R Hilgard, Richard C Atkinson ,Rita L Atkinson Introduction to Psychology Oxford Publication, New Delhi.

DEPARTMENT : INFORMATION TECHNOLOGY

ELMIT –01: Green Computing

(2 Credits)

Course Objective: Study the concepts related to Green IT, Green devices and hardware along with software methods, green enterprise activities, managing the green IT and various laws, standards, protocols along with outlook of green IT.

BLOCK 1: Overview of Green Computing

Unit 1: Green IT Introduction, Overview and issues, Initiatives and standards, Pathways of Green computing, Benefits of Green IT, Environmental Impacts of IT

Unit 2: Green devices and hardware Environmental issues arising from electronic devices, life cycle of electronic devices, Hazards and E-waste Recycling, Going paperless, Hardware considerations, Greening information systems, Managing Green IT, 3Rs of Green IT, Thinking About Money-Saving Efforts

Unit 3: Green Data Centres and Associated Energy Challenges, Data Centre IT Infrastructure, Data Centre Facility Infrastructure: Implications for Energy Efficiency, IT Infrastructure Management, Green Data Storage, Storage Media Power Characteristics,

Unit 4: Green network and communications, objectives and challenges of green networking, Enterprise Green IT strategy, Approaching Green IT strategies, Business drivers and dimensions for Green IT strategies, Steps in Developing a Green IT Strategy, Metrics and Measurements in Green Strategies

BLOCK 2: Management of Green Computing

Unit 5: Sustainable Information Systems and Green Metrics, Sustainable IT Services, Sustainable IT Roadmap, Enterprise, Green IT Readiness, Readiness and Capability

Green Enterprises and the Role of IT, Organizational and Enterprise Greening, Information Systems in Greening Enterprises, Greening the Enterprise: IT Usage and Hardware,

Unit 6: Managing Green IT, Strategizing Green Initiatives, Implementation of Green IT, Regulating Green IT: Laws, Standards and Protocols,

Unit 7: Green Cloud Computing and Environmental Sustainability, Cloud Computing and Energy Usage Model: A Typical Example, Features of Clouds Enabling Green Computing, Green Cloud Architecture

Unit 8: Green IT: An Outlook, Awareness to Implementation, Green IT Trends, Greening by IT, A Seven-Step Approach to Creating Green IT Strategy

Text Books:

1. Gangadharan, G. R., & Murugesan, S. (2012). Harnessing Green IT: Principles and practices. Wiley Publication, ISBN: 9788126539680.
2. Smith, B. E. (2013). Green Computing: Tools and Techniques for Saving Energy, Money, and Resources. CRC Press.

DEPARTMENT -BOTANY

Plant-Microbe Interactions

Overview of plant microbes interactions,
Introduction, beneficial microbes, Rhizobium bacterium and nitrogen fixation, mycorrhizal fungi.
Plant pathogens, Agrobacterium tumefaciens and crown gall disease,
Mechanisms of plant disease mechanism, some bacterial plant diseases,
Plant viruses and mechanism of plant against viruses attacks.
Fungal pathogen- mechanism of plant disease,
Oomycete pathogens, Fungal mediated plant.
General concept of plant immunity,
PAMP-triggered immunity (PTI) and effectors-triggered immunity (ETI).
Transcription activator like effector and their role in virulence and disease resistance.

References

1. Lautenberg, B. (2015). Principles of Plant-Microbes Interactions: Microbes for sustainable Agriculture, Springer.
2. Stacey, G. and Keen, N. T. (1997). Plant-Microbes Interactions, Vol 4, . Springer.
3. Ramasamy, K, (2015). Plant Microbes Interactions, New India Publishing Agency.
4. Martin, F. and Kamoun, S. (2014). Effectors in Plant-Microbes Interactions 1st Edition, Wiley Blackwell.

DEPARTMENT -ZOOLOGY

MZO-IE-1: Parasites, Vectors & Communicable Diseases

Introduction to parasites.

Distribution, types, origin and evolution of parasites. Parasitism.

Types: Ecto-parasites, Endo-parasites and their adaptations.

Pathogenic micro-organisms, brief outline and classification of parasitic protozoan's: Entamoeba, Balantidium, Giardia, Trichomonus, Plasmodium, Leishmania and Trypanosoma and their diseases.

Control measures, diagnosis and therapy.

Pathogenic helminthes and vectors.

Etiology, epidemiology, pathogenesis, diagnosis, prevention and control of disease due to *Trichinella spiralis*, *Ancylostoma duodenale*, *Fasciola hepatica*, *Schistosoma* species.

Pathogenic Cestodes: Life cycle, treatment of diseases caused by *Echinococcus*, *Hymenolepis* and *Diphyllobothrium*. Scope and importance of vectors. Origin and evolution of vectors. Habitat, life cycle, pathogenicity of fleas, mites, ticks, lice's and mosquitoes.

Historical perspectives and scientists involved in the discovery of vectors and communicable Diseases.

Epidemiology, bio-ecology, life cycle of biological and mechanical Vectors. Vector-host-parasites interactions, Host-pathogen interaction, insects transmitting Bacteria and viruses.

Control and management of vectors and vector borne diseases

Control measures: cultural, chemical, biological, genetic and environmental Methods of vectors. Management of biological and mechanical vectors during Different seasons. Integrated Vector Control and Management.

Insecticide resistance in vectors, Drug resistance in pathogens.

Importance of education, awareness among public on communicable diseases and community participation. Covid-19 pandemics. Epidemiology of corona virus and its mutants. Vaccination against corona virus in India and other parts of the world.

DEPARTMENT –FOOD AND NUTRITION SCIENCE

ELMFNS- 01 FOOD PSYCHOLOGY

Credits: 2

BLOCK 1: FOOD: PREFERENCES AND CHOICES

Unit 1: Food: Physiological definition and significance, meaning of food, food classification, Food as statement of self-identity, Social interaction, Cultural identity

Unit 2: The Role of Food and Eating on Personality and Social Development: Psychology of eating, Food and emotion regulation, Food in daily living, Food Socialization, Food and control of others

Unit 3: Food Preferences and Fluctuations: Developmental Models, Cognitive Models & Psychophysiological Models, Physiology of food choice, Likes and Dislikes, acquired food preferences, Attitudes towards change, Food and sensory stimulus, Factors influencing eating behavior – (biological, environmental, individual, food characteristics, culture etc., Effect of eating on food selection and preferences, Understanding of the body and self – selection of the diet.

Unit 4: Food choices across lifespan and influence of society: The changing role of the senses in food choice and food intake across lifespan, Food in security and health across lifespan, Influence of media and advertisements, Digital platform and influence on food choices

BLOCK 2: EATING DISORDERS AND TREATMENTS

Unit 5: Mood, Emotions, food cravings and addictions: relation with food preferences, Connection between mood and eating, Biological and physiological aspects of food cravings, Stress and eating behavior, Food addiction - description, neurobiology of food addiction

Unit 6: Eating disorders and treatment: Anorexia nervosa, Bulimia nervosa and binge eating Disorder-Definition, Symptoms, believed causes, Classification, Risk factors, Common myths of eating disorders, Treatment & dietary management

Unit 7: Overeating, Obesity and Weight management: Definition, Prevalence, Classification of Body Mass Index, Types & patterns, Etiology, Physiological component, Fad diets, Risk factors, Treatment - Weight management (Behavior & Cognitive), Lifestyle modifications, Dietary modification - (calorie restricted diet)

Unit 8: You are what you eat- Approaches to change the dietary behavior: Multidisciplinary approach, Strategies to support healthy dietary behavior: Encouraging healthy eating, Selection of food, Meal & portion size, developing education materials, Motivation & economics, Benefits of exercise, Stage classification for change, Barriers affecting the clinical outcome

REFERENCES:

1. [Smith John L.](#) (2002), The Psychology of Food and Eating (English, Hardcover, Smith John , Publisher: Palgrave MacmillanL.), ISBN: 9780333800201, 0333800206.
Alexandra W. Logue Oct 2017, The Psychology of Eating and Drinking Fourth Edition.

Annexure II

INTER- DISCIPLINARY COURSE
(Open Elective) for Second Semester
ವಿಭಾಗ- ಕನ್ನಡ

ಪತ್ರಿಕೆ-೬: ಪ್ರಾಚೀನ ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಇತಿಹಾಸ **EL-2.1 (ಕ್ರೆಡಿಟ್-೨)**

ಬ್ಲಾಕ್-೩೮: ಸಾಹಿತ್ಯ ಚರಿತ್ರೆಯ ಉಗಮ ಮತ್ತು ವಿಕಾಸ

ಘಟಕ-೧೪೯: ಸಾಹಿತ್ಯದ ಉಗಮ, ಬೆಳವಣಿಗೆ, ಉದ್ದೇಶ.

ಘಟಕ-೧೫೦: ಪ್ರಾಚೀನ ಪೂರ್ವ ಶಾಸನಸಾಹಿತ್ಯ.

ಘಟಕ-೧೫೧: ಪಂಪ ಪೂರ್ವ ಯುಗದ ಸಾಹಿತ್ಯ.

ಘಟಕ-೧೫೨: ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆಯ ವಿಭಾಗಕ್ರಮ.

ಬ್ಲಾಕ್-೩೯: ಪ್ರಾಚೀನ ಕನ್ನಡ ಸಾಹಿತ್ಯ

ಘಟಕ-೧೫೩: ಪ್ರಾಚೀನ ಕನ್ನಡ ಸಾಹಿತ್ಯ ರೂಪಗಳು; ಚಂಪೂ, ವಚನ, ರಗಳೆ, ಷಟ್ಪದಿ, ಸಾಂಗತ್ಯ ಇತ್ಯಾದಿ.

ಘಟಕ-೧೫೪: ಪ್ರಾಚೀನ ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಪರಿಕಲ್ಪನೆಗಳು;

ಚರಿತ್ರೆ-ಪುರಾಣ, ಧರ್ಮ-ಕಾವ್ಯಧರ್ಮ, ಹಿಂಸೆ-ಅಹಿಂಸೆ, ಮಾರ್ಗ-ದೇಶಿ, ಲೌಕಿಕ-ಆಗಮಿಕ, ವಸ್ತುಕ-ವರ್ಣಕ, ಪ್ರಭುತ್ವ-ಪ್ರತಿರೋಧ.

ಘಟಕ-೧೫೫: ಪ್ರಾಚೀನ ಕನ್ನಡ ಕವಿ-ಕೃತಿ-ಕಾಲ-ದೇಶ-ಭಾಗ ೧.

ಪಂಪ, ರನ್ನ, ಪೊನ್ನ, ೧ನೆ ಚಾವುಂಡರಾಯ, ನಾಗವರ್ಮ ೨ನೆಯ ಚಾವುಂಡರಾಯ, ನಾಗಚಂದ್ರ, ನಯಸೇನ, ದುರ್ಗಸಿಂಹ, ಬ್ರಹ್ಮಶಿವ, ಕರ್ಣಪಾರ್ಯ, ಜನ್ನ.

ಘಟಕ-೧೫೬: ಪ್ರಾಚೀನ ಕನ್ನಡ ಕವಿ-ಕೃತಿ-ಕಾಲ-ದೇಶ-ಭಾಗ ೨.

ಆಂಡಯ್ಯ, ನೇಮಿಚಂದ್ರ, ರುದ್ರಭಟ್ಟ ಪ್ರಮುಖ ವಚನಕಾರರು - ಜೇಡರ ದಾಸಿಮಯ್ಯ, ಬಸವಣ್ಣ, ಅಕ್ಕ ಮಹಾದೇವಿ, ಅಲ್ಲಮಪ್ರಭು, ಚನ್ನಬಸವಣ್ಣ, ಹರಿಹರ, ರಾಘವಾಂಕ, ಕುಮಾರವ್ಯಾಸ, ಲಕ್ಷ್ಮೀಶ, ಪ್ರಮುಖ

ಕೀರ್ತನಕಾರರು, ಚಾಮರಸ, ಕುಮಾರವಾಲ್ಮೀಕಿ, ಸರ್ವಜ್ಞ, ಷಡಕ್ಷರಿ, ಸಂಜೆ ಹೊನ್ನಮ್ಮ, ನಂಜುಂಡ, ರತ್ನಾಕರವರ್ಣಿ, ಮುದ್ದಣ, ಕೆಂಪುನಾರಾಯಣ.

ಪರಾಮರ್ಶನ ಗ್ರಂಥಗಳು

೧. ಗತಿಬಿಂಬ : ಜಿ.ಎಸ್. ಶಿವರುದ್ರಪ್ಪ, ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಬೆಂಗಳೂರು
೨. ಕಾವ್ಯ ವಿಹಾರ : ಕುವೆಂಪು, ಉದಯರವಿ ಪ್ರಕಾಶನ, ಮೈಸೂರು, ೧೯೬೯
೩. ಸಮಗ್ರ ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ : ಬೆಂಗಳೂರು, ವಿಶ್ವವಿದ್ಯಾನಿಲಯ ಬೆಂಗಳೂರು, ೨೦೦೨
೪. ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ : ಕೆ. ವೆಂಕಟರಾಮಪ್ಪ, ಪ್ರಸಾರಾಂಗ, ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಮೈಸೂರು
೫. ಕರ್ನಾಟಕ ಸಂಸ್ಕೃತಿ: ದೇವುಡು, ಶಾರದಾ ಪ್ರಕಾಶನ, ಮೈಸೂರು, ೧೯೩೫
೬. ಕನ್ನಡ ಸಾಹಿತ್ಯ ಸಂಗಾತಿ : ಕೀರ್ತಿನಾಥ ಕುರ್ತಕೋಟಿ, ಮನೋಹರ ಗ್ರಂಥಮಾಲೆ, ಧಾರವಾಡ
೭. ಶೈಲಿ : ಎಸ್.ವಿ.ರಂಗಣ್ಣ, ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಮೈಸೂರು, ೧೯೭೬
೮. ಶತಮಾನದ ಕನ್ನಡ ಸಾಹಿತ್ಯ : ಸಂಪಾದಕರು, ಜಿ.ಎಸ್. ನಾಯಕ, ಕನ್ನಡ ಸಾಹಿತ್ಯ ಅಕಾಡೆಮಿ, ಬೆಂಗಳೂರು
೯. ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಇತಿಹಾಸ : ರಂ. ಶ್ರೀ. ಮುಗಳಿ, ಕೇಂದ್ರ ಸಾಹಿತ್ಯ ಅಕಾಡೆಮಿ, ನವದೆಹಲಿ, ೧೯೬೩
೧೦. ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ : ರಂ.ಶ್ರೀ. ಮುಗಳಿ, ಉಷಾ ಸಾಹಿತ್ಯ ಮಾಲೆ, ಮೈಸೂರು, ೧೯೭೧
೧೧. ಬಿಂಬ: ಚದುರಂಗ, ಸಂವಹನ ಪ್ರಕಾಶನ, ಮೈಸೂರು
೧೨. ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ ಸಂಪುಟಗಳು : ಕುವೆಂಪು ಕನ್ನಡ ಅಧ್ಯಯನ ಸಂಸ್ಥೆ, ಮೈಸೂರು. ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಮೈಸೂರು, ೧೯೮೨
೧೩. ಕನ್ನಡ ಸಾಹಿತ್ಯದ ಪ್ರಾಚೀನತೆ: ಪ್ರಧಾನ ಸಂಪಾದಕರು, ಎ. ರಂಗಸ್ವಾಮಿ, ಲೇ. ಎಚ್.ಪಿ. ಗೀತಾ, ಜನಪ್ರಿಯ ಕನ್ನಡ ಮಾಲೆ, ಕನ್ನಡ ಅಧ್ಯಯನ ಮತ್ತು ಸಂಶೋಧನಾ ವಿಭಾಗ, ಕರಾಢುಮಿ, ಮೈಸೂರು, ೨೦೧೧
೧೪. ಪ್ರಾಚೀನ ಕನ್ನಡ ಕಾವ್ಯ ಸ್ಥಿರತೆ ಮತ್ತು ಚಲನ ಶೀಲತೆ : ಪ್ರಧಾನ ಸಂಪಾದಕರು, ಎ. ರಂಗಸ್ವಾಮಿ, ಲೇ. ಶಿವರಾಮಯ್ಯ, ಜನಪ್ರಿಯ ಕನ್ನಡ ಮಾಲೆ, ಕನ್ನಡ ಅಧ್ಯಯನ ಮತ್ತು ಸಂಶೋಧನಾ ವಿಭಾಗ, ಕರಾಢುಮಿ, ಮೈಸೂರು, ೨೦೧೨
೧೫. ಕನ್ನಡ ಕೃಷಿಡಿ: ಸಂಪುಟ ೨, ಪ್ರಸಾರಂಗ, ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಮೈಸೂರು, ೨೦೦೭

DEPARTMENT - ENGLISH

EL-2.1: INDIAN LITERATURE-II

OBJECTIVES

- To appreciate artistic values in *Hayavadana* and the use of myth
- To know the importance of Indian English historical plays
- To appreciate Sri Aurobindo as a poet and critic
- To comprehend the different theories of aesthetic experience of art

BLOCK -I

Girish Karnad: Hayavadana

Gurucharan Das: Larin Sahib

BLOCK -II

M. Hiriyanna: Art Experience

Sri Aurobindo: Selections: The Poets of the Dawn and The Poets of the Dawn 3 (The Future Poetry)

Suggested Reading:

- **K.R.Srinivas Iyengar:** Indian Writing in English .Macmillan, 1979.
- **M.K.Naik:** Critical Essays on Indian Writing in English.Sahitya Akademi, 1969.
- **Narasimhaiah C.D:** The Swan and the Eagle. Indian Institute of Advanced Study, 1987.
- **Meenakshi Mukherjee:** The Twice Born Fiction. Heinemann Educational Publishers, 1972.

DEPARTMENT - HINDI

हिंदी सिनेमा

- सिनेमा का उद्भव और विकास
- मूक चलचित्र और दादा साहब फाल्के युग
- दूसरा पढ़ाव, सवाक चलचित्र अथवा आलमआरा
- रंगीन सिनेमा का युग
- सामाजिक सिनेमा एक विवेचन
- धर्म एवं सांस्कृतिक सिनेमा एक विवेचन
- राजनैतिक सिनेमा एक विवेचन
- आर्थिक सिनिमा एक विवेचन
- हास्य एवं व्यंग्य सिनेमा एक विवेचन
- बाल सिनेमा
- सिनेमा एवं संवेदना
- सिनेमा एव भाषा-शिल्प सिनेमा एवं गायन
- सिनेमा एवं पात्र संयोजना
- सिनेमा एवं नैतिक मूल्य
- अनूदित सिनेमा
- सिनेमा का तुलनात्मक अध्ययन
- फिल्म समीक्षा.....आदि



- सिनेमा साहित्य और समाज- प्रहलाद अग्रवाल, अनामिका प्रकाशन, नई दिल्ली
- कथाकार कमलेश्वर और हिंदी सिनेमा- उज्ज्वल अग्रवाल, राजकमल प्रकाशन, नई दिल्ली
- बॉलिवुड पाठ विमर्श के संदर्भ- ललित जोशी, वाणी प्रकाशन, नई दिल्ली
- फ्लैशबैक, प्रभुनाथ आजमी, शिल्पायन, नई दिल्ली
- नाटक के सौ बरस, हरिश्चंद्र अग्रवाल और अजित पुष्कल, शिल्पायन, नई दिल्ली

DEPARTMENT - TELUGU

E. L. 2.1 TELUGU SAMSKRUTHI - SAMAJAM

Block - 1: ANDHRULA CHARITHRA - SAMSKRUTHI

Unit - 1: Samskruthi Vaisistyam

Unit - 2: Andhrula Charithra - Samskruthi Paraspara Prabhavam

Unit - 3: Andhrula kalalu

Unit - 4: Andhrula basha - samajam

Block - 2: ANDHRULA AACCHARALU -SAMPRADHAYALU

Unit - 1: Andhrula Pandugalu

Unit - 2: Sthrela Nomulu - Vrathalu

Unit - 3: Andhrula Sangikaacharalu

Unit - 4: Andhrula Sampradhayalu

DEPARTMENT - HISTORY

OEL2.1 Social Reform Movements in Modern India

Objective: The course aims to trace the causes for the division of society in various sections and need for reformation. Further it explains age old social evils which crippled Indian society.

Pedagogy: personal contact programmes, audio video programmes, online lectures
Assignments, etc

Credits: 2. **Examination Duration:** 1 1/2 hours and Maximum Marks: 40

Course outcomes

After completing this course the students should be able to

- Understanding the contributions of the Raja ram Mohan Roy Dayananda Sarawathi towards the Indian modernity
- Analyse the Jyothibai phule Savithribai Phule Ambedkar's contributions to Indian social reform movements
- Evaluate the works of Sahu Maharaj and Krishna raja wadiyar IV patronage to social Justice.

Block-I

Unit : 1

Colonial Discovery of India : Orientalism, Anglicism, Evangelism-Understanding Indian Society, Meaning of Social Reform. The Concept of Modernity : Western Impact – Indian Response.

Unit : 2

Rajaram Mohan Roy and Brahmo Samaj, Dayananda Sarawathi and Arya Samaj-Nationalism and Society – Prarthana Samaj.

Unit : 3

Jyothi Ba- Phule and Savithri Ba Phule, Social and education reforms.

Unit : 4

Communalism, Eradication of Communalism, Muslim League, Wahhabi and Pan Islamism-
Syed Ahmed and Aligarh Movement.

Block-II

Unit : 5

The debate over the interpretation of Shastras – Ishwar Chandra Vidya Sagar - B.M.Malabari
– Vivekananda –M.G. Ranade—Bal Gangadhar Tilak.

Unit :6

Dr. B.R.Ambedkar-, His views on Society, A caste and its annihilation, Religion and
Economy, M.K.Gandhi- E.V.Ramswamy Periyar and Sri.Narayanguru, Ayyan kali.

Unit :7

The reformers – Kandukuri Veereshalingam – Pandit Shivanatha Shastry – Gopal Ganesh
Agarkar-K.T.Telang-Maharma.

Unit :8

D.K.Karve, Maharaj Saiyyaji Rao Gaekwad of Baroda – Chatrapathi Shahu Maharaj of
Kolhapur and Maharaja Krishnaraja Wodeyar IV of Mysore.

Suggested readings:

1. Nararajan : A Century of Social Reform in Indian.
2. Seetharam Singh : Nationalism and Social Reform in India
3. Dhananjaya Keer : Ambedkar, Life and Mission
4. Dhananjaya Keer :Mahatma Jyoti Rao Phule : Father of Social Revolution in India
5. Charless Heimsath R : Indian Nationalism and Hindu social Reform
6. A.S.Altekar : Position of Women In Hindu Civilization.
7. Gail Omvedt : Cultural Revolt in a Colonial Society – The Non – Brahmin Movements in
Western India.
8. Gail Omvedt : Dalits and Democratic Revolution.
9. Ravindrakumar : Selected Documents of B.G.Tilak.
10. S. Ramkrishna : Social Reform Movements in Andhra
11. M.K.Gandhi : Women and Social Injustice.

ವಿಜಯ ಪೂರ್ಣಚ್ಚು ತಂಬಂಡ (ಸಂ), ಭಾರತ ಉಪಖಂಡದ ಆಧುನಿಕ ಪೂರ್ವ ಚರಿತ್ರೆ ವಿವಿಧ ಆಯಾಮಗಳು –
ಸಂಪುಟ-03, ಪ್ರಸಾರಾಂಗ, ಕನ್ನಡ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಹಂಪಿ.

DEPARTMENT - ECONOMICS

EL2.1: Institutions for International Development

- **Objective:** To enable the Students to understand the need and importance of various International Institutions.
- **Pedagogy:** A Combination of Lectures, Group Discussion, Assignments.
- **Credits:** 2 ; Examination Duration: 1½ and Maximum Marks: 50 (Internal Assessment Marks = 10 and Semester-end Examination =40)

Course Inputs

Block – I Economic Issues at Global and National Level

Unit – 1 Globalisation

Globalisation – Forces Driving Globalisation – Income Inequality – National Integrity – Impact on Labour – Multinational corporations – Global Business Environment – National Business Environment.

Unit – 2 Legal Issues of Business at Global and National Level

Political Risks – Legal System – Business Ethics – Centrally Planned Economy – Mixed Economy – Market Economy – Human Development

Unit – 3 International Trade

Importance – Volume – Direction – Composition – Trends – Theories of Trade - Mercantilism – Absolute Advantage – Comparative Advantage – International Product Life Cycle – Political, Economic and Cultural Motives behind Government Intervention.

Unit – 4 GATT and WTO

Importance – objectives – Functions - GATT and W.T.O – India and WTO.

Block – II Economic Integration and International Business Issues

Unit – 5 Regional Economic Integration

Meaning – Effects – Integration in Europe: European Union – Integration in Americas : North American Free Trade Agreement (NAFTA) – Latin American Integration Association (LAIA) – Free Trade Area of Americans (FTAA) and Transatlantic Economic Partnership.

Unit – 6 Integration in Asia

Association of Southern East Asian Nations (ASEAN) - Asia Pacific Economic Cooperation (APEC) – Integration in middle East : Gulf Cooperation Council (GCC) – BRICS – SAARC.

Unit – 7 International Financial Markets

International capital markets – Foreign Exchange markets – Currency Convertibility – International Monetary System.

Unit – 8 Issues in International Business

Trade War – Balance of Payment – Terrorism – Oil Crisis – Smuggling – Dumping – Environmental Degradation – Exhibit of Nuclear power – Covid 19 and other pandemics.

References:

01. Apte A.N. (2011) International Financial Management, Tata McGraw Hill Pub., Co. Ltd., New Delhi.
 02. Bhambari C.P, (1980) The World Bank and India, Vikas Publishing House, New Delhi.
 03. International Development Association, Annual Reports.
 04. International Finance Corporation, Annual Reports.
 05. International Monetary Fund, Annual Reports.
 06. World Bank, (1995) The Evolving Role of the World Bank in the First Half Century, Washington D.C.
 07. World Bank, World Bank in India, Washington, D.C. USA
 08. World Bank, World Development Reports, and Annual Reports.
- Palle Krishna Rao, (2005) WTO, Text and Cases, PSG Excel Series, New Delhi.

DEPARTMENT - POLITICAL SCIENCE

(OEL-I) Indian Constitution

Block-I

- Unit:1 Framing of the Indian Constitution.
 Unit:2 Preamble and Salient Features of the Indian Constitution.
 Unit:3 Fundamental Rights and Duties.
 Unit:4 Directive Principles of the State Policy.

Block-II

- Unit:5 Union Legislature : Composition, Powers and Functions.
 Unit:6 Union Executive : President and Vice-President - Election, Powers and Functions, Prime ministers and Council of Minister - Powers and Functions.
 Unit:7 State Legislature : Composition, Powers and Functions, State Executive - Governor and Chief Minister.
 Unit:8 The Judiciary : Supreme Court and High Court - Composition, Jurisdiction and Functions.

References:

1. Andre Beteille, 1965. Caste, class, and Power. Berkley: University of California Press.
2. Appadorai, A 1968. India: Studies In Social And Political Development 1947-1967. New Delhi: Aisa Publishing House.
3. Desai, A R. 2016. Social Background of Indian Nationalism. Los Angeles: Papular Prakashan.
4. Granville Austin, 2000. The Indian Constitution: Cornerstone of a Nation. Melbourne: Oxford University Press.
5. Hanson and Douglas, 1972. India`s Democracy. New York city: W W Norton & Co Inc.
6. Johari J C 1974. Indian Government and Politics. New Delhi: Vishal Publications.
7. Karunakaran, K.P 1964. Continuity and Change in Indian Politics. New Delhi: People`s Pub. House.
8. Kochanek. A. 1968. The Congress Party of India: the Dynamics of a One-Party Democracy. New Jersey: Princeton University Press.
9. Morris Jones, 1967. The Government and Politics of India. London: Hutchinson University Library.
10. Myron Weiner, 1957. Party Politics in India. New Jersey: Princeton University Press.
11. Myron Weiner, 1967. Party Building in New Nation. Chicago: University of Chicago Press.

12. Palmer, N D 1971. The Indian Political System. Boston: Houghton Mifflin.
13. Partha Chatterjee, 1998. State and Politics in India. University of Michigan: Oxford University Press.
14. Pylee, M V 1960. Constitutional government in India. Bombay: Asia Pub. House.
15. Rajni Kothari, 1970. Politics in india. The University Of Michigan: Little Brown
16. Rajni Kothari, 1995. Caste in Indian Politics. Telangana: Orient Blackswan.
17. Venkatarangaiya: M Shiviah, 1975. Indian Federalism. New Delhi: Arnold-heinemann Publishers.
18. Zoya Hasan, 2000. The State in Indian Politics. Landon: Sage publication.

DEPARTMENT - SOCIOLOGY

Study of Indian Society -02 Credits

Course Description

Every science has its own classical theories, which stand as eternal in their explanatory power and prowess to transcend the time and region. This course intends to introduce the learners to the classical period of sociology which is not just a bundle of theories but a consistent tradition and formative period, even contemporary theories cannot eschew from being inspired. After studying this course, following learning outcomes can be expected.

Course Objectives

1. To appreciate the organizational framework of Indian society
2. To appreciate the aspects unity and diversity of Indian society
3. Examine the social issues in contemporary India

Learning Outcomes

Following outcomes are expected from the learners after successfully completing the course. Learner can/has

LOC-1: sociological insights about the social structural and organizational aspects of Indian society

LOC-2: present the changes in institutional framework of Indian society

LOC-3: recognize the causes for major social issues and present realistic remedies

Course Content

Block-1 Social Organizations

Unit-1 Unity and Diversity-Problem of Integration

Unit-2 Caste-Characteristics and Recent Changes

Unit-3 Marginalization-SC, ST, OBC and Minorities

Unit-4 Changes in Family and Concerns of the Aged

Block-2 Social Issues in Contemporary India

Unit-5 Environmental Sanitation and Ecological Degradation

Unit-6 Educated Unemployment and Employability

Unit-7 Social Unrest-Terrorism, Naxalism, Communalism and Corruption

Unit-8 Child Rights and Right to Education (RTE)

References

- Ahuja, Ram. 2002. Study of Social Problems. Jaipur & New Delhi: Rawat Publications
- Atal, Yogesh. 1979. The Changing Frontiers of Caste. National Publishing House: Delhi

- Beteille, Andre. 1971. Caste, Class and power. Berkeley: University of California.
- Beteille, Andre. 1974. Social Inequality, New Delhi: Oxford University Press.
- Beteille, Andre. 1992. Backward Classes in Contemporary India. New Delhi: Oxford University Press.
- Berreman, G.D. 1979. Caste and Other Inequalities: Essays in Inequality. Meerut: Folklore Institute.
- Dube, Leela. 1997. Women and Kinship, Comparative Perspectives on Gender Southern South Asia.
- Das, Veena. 2006. Oxford Handbook of Indian Sociology. New Delhi: Sage
- Dube, S C. 1990. Study of Indian Society. New Delhi: National Book Trust
- Jha, Hetukar. 2015. Sanitation in India. Delhi: Gyan Books.
- Karve, Iravathi. 1990. Kinship Organization in India.
- Pais, Richard. 2015. Sociology of Sanitation. Delhi: Kalpaz Publications.
- Pathak, Bindeshwar. 2015. Sociology of Sanitation. Delhi: Kalpaz Publications.
- Singer, Milton & Cohen, Bernards. 1996. Structure and change in Indian Society. Jaipur: Rawat
- Singh, Yogendra, Modernization of Indian Tradition. Jaipur & New Delhi: Rawat
- Srinivas, M N. 1995. Social Change in Modern India: Orient Blackswan
- Srinivas, M. N. 1962. Caste in Modern India and Other Essays. Asia Publishing House: Delhi

DEPARTMENT – ANCIENT HISTORY AND ARCHEOLOGY

AHA
OE 2.1

Cultural History of Hoysalas (OE)

Block - 1

Early Kings

Unit - 1 Archeological and Literary Sources

Unit - 2 Theories of Origin of Hoysalas – Sala – Nripakama – Ereyanga

Block - 2

Important Rulers

Unit - 3 Vishnuvardhana - VeeraNarasimha – I

Unit - 4 Ballala – II - Narasimha – II - Narasimha III and Ballala – III

Block - 3

Cultural Contributions

Unit - 5 Hoysala polity - Economy

Unit –6 Hoysala Society – Religion – Education - literature

Block - 4

Art and Architecture

Unit - 7 Hoysala Architecture

Unit – 8 Hoysala Art

References:

1. Epigraphia Carnatica: Relevant Volumes
2. Derrett Duncan, M.J: The Hoysalas, 1957
3. Dhakey M.A: Encyclopedia of Indian Temple Architecture
4. Desai P.B: History of Karnataka
5. Foekema Gerard: A Complete Guide to Hoysala Temples
6. Gopinatha Rao T.A: Elements of Hindu Iconography, Vols
7. Kelleson Collyer: The Hoysala Artists – Their Identity Style
8. Krishna Murthy M.S: The Hoysala Art, Kuppam, 2007
9. Padmnabha K: Hoysala Sculptures : A cultural Study
10. Sheik Ali B (Ed): The Hoysala Dynasty , 1972
11. William Cohelo: The Hoysala Vamsha, 1950
12. Annual Reports of the Department of Archaeology, Mysore 1939 – 46
13. Settar S: Hoysala Temples
14. Marg: In Praise of Hoysala Art
15. Narasimhachar R; Lakshmidēvi Temple at Doddagaddhāvalli
16. Shastri KAN: The Cholas, 17. Shastri KAN: History of South India

DEPARTMENT - COMMERCE

Elective Course – EL2.1: Entrepreneurship Development

- **Objective:** To enable the Students to understand about the different aspects of Entrepreneurship Development.
- **Pedagogy:** A Combination of Lectures, Group Discussion, Assignments.
- **Credits:** 2 ; Examination Duration: 1½ and Maximum Marks: 50 (Internal Assessment Marks = 10 and Semester-end Examination = 40)

Course Inputs

Block I

- **Unit -1: Entrepreneur and Entrepreneurship:** Introduction - Evolution – Characteristics – Distinction between Entrepreneur and Manager – Functions – Types – Entrepreneur - Concept of Entrepreneurship – Growth of Entrepreneurship in India – Role of Entrepreneurship in Economic Development
- **Unit – 2: Women Entrepreneurship:** Introduction - Concept – Statistical Evidence – New Age Women – Functions – Growth - Problems – Recent trends in Development of Women Entrepreneurship.
- **Unit -3: Rural Entrepreneurship:** Introduction - Meaning – Need – Rural Industrialisation in Retrospect – Problems – Development of Rural Entrepreneurship – NGOs and Rural Entrepreneurship.

- **Unit -4: Conceptual Models of Entrepreneurship:** Introduction - Models of John Kao – Udai Pareek and Nadakarni– NISIET.

Block II

- **Unit – 5: Factors Affecting Entrepreneurial Growth And Competencies:** Introduction - Economic Factors – Non-Economic Factor – Government Actions - Entrepreneurial Competencies: Meaning – Major Entrepreneurial Competencies – Developing Competencies.
- **Unit -6: Entrepreneurial Motivation and Mobility:** Introduction - Motivation – Motivation Theories – Motivating Factors – Achievement Motivation – Factors Influencing Mobility – Occupational Mobility – Locational Mobility.
- **Unit – 7: Entrepreneurship Development Programmes:** Introduction - Need for EDPs - Objectives of EDPs – Course Contents and Curriculum of EDPs – Phases of EDPs – Evaluation of EDPs.
- **Unit -8: Institutional Support System for Entrepreneurship:** Introduction - DICs – SISIs – SIDCOs – NISIET – EDIT – NIESBU – TCOs- A Broad Overview of Central and State Level Financing Institutions.

Books Recommended for Reference

- a. Vasanth Desai, The Dynamics of Entrepreneurial Development and Management, Himalaya Publishing House.
- b. A. N Desai, Entrepreneurship Management, Ashish Publishing House.
- c. Chandra Prasanna, Project Preparation, Appraisal and Implementation, Tata McGraw Hill.
- d. Khanka, S.S, Entrepreneurial Development, S. Chand Publications.
- e. Prasanna Chandra, Projects: Planning, Analysis, Selection, Implementation and Review, Tata McGraw Hill.

DEPARTMENT - MANAGEMENT

E-COMMERCE

Credits: 2

Module 1: E-commerce and its Technological Aspects:

Overview of developments in Information Technology and Defining E-Commerce: The scope of E commerce, Electronic Market, Electronic Data Interchange, Internet Commerce, Benefits and limitations of E-Commerce, Produce a generic framework for E-Commerce, Architectural framework of Electronic Commerce, Web based E Commerce Architecture.

Module 2: Electronic Data Interchange: Benefits of EDI, EDI technology, EDI standards, EDI communications, EDI Implementation, EDI Agreements, EDI Security. Electronic Payment Systems, Need of Electronic Payment System: Study and examine the use of Electronic Payment system and the protocols used, Study Electronic Fund Transfer and secure electronic transaction protocol for credit card payment. Digital economy: Identify the methods of payments on the net – Electronic Cash, cheques and credit cards on the Internet.

References:

1. Elias. M. Awad, " Electronic Commerce", Prentice-Hall of India Pvt Ltd.
2. Ravi Kalakota, Andrew B. Whinston, "Electronic Commerce-A Manager's guide", Addison-Wesley.

3. Efraim Turban, Jae Lee, David King, H. Michael Chung, "Electronic Commerce—A Managerial Perspective", Addison-Wesley.
4. Elias M Award, "Electronic Commerce from Vision to Fulfilment", 3rd Edition, PHI, Judy Strauss, Adel El-Ansary, Raymond Frost, "E-Marketing", 3rd Edition, Pearson Education

DEPARTMENT - BIO CHEMISTRY

Basics of Bioorganic chemistry for Biology graduates.

Introduction to Organic chemistry: Classification of organic compounds, unique characteristics, IUPAC nomenclature of organic compounds (including bifunctional).

Reaction mechanisms: Classification of organic reactions: substitution, addition, elimination and rearrangement with one example for each. Concepts of the following – carbon anions, carbon cations, free radicals, carbenes, nucleophiles and electrophiles.

Cycloalkanes: Reactivities and relative stability, Bayer's strain theory. Sachse-Mohr theory. Boat and chair form of cycloalkanes. Axial and equatorial bonds.

Arenes: Structure of Benzene—resonance and molecular orbital theories. Aromaticity. Mechanism of Nitration and Friedel-Craft's reaction. Electronic interpretation of the orienting influence of substituents in the electrophilic substitution of Toluene, Chlorobenzene, Nitrobenzene and Phenol. Polynuclear hydrocarbons—Resonance structures of Naphthalene, Anthracene and phenanthrene.

S_N1 and S_N2 reactions, mechanism with an example for each. Concept of elimination reactions. Example –n-butyl chloride.

Alcohols: Classification, monohydric, alcohols-distinguishing reactions for primary, secondary and tertiary alcohols.

Trihydric alcohols: Glycerol, Properties, ($KHSO_4$, HNO_3 , Oxalic acid and HI)

Phenols: Acidity of phenols, Effect of substitution on acidity

Stereochemistry: Stereoisomerism, types, Fischer-projection formulae, asymmetric carbon atom, molecular dissymmetry, chirality, optical isomerism: ex. Glyceraldehyde, Lactic acid, Tartaric acid. Nomenclature of enantiomers. D- and L- system, Racemisation and resolution.

Heterogeneous and Homogeneous hydrogenation of oils.

Selected References:

1. Basic Principles of Organic Chemistry, Roberts and Caserio, W. A. Benjamin, Inc. (1964).
2. Organic Chemistry, Morrison and Boyd, Allyn and Bacon Inc (1992).
3. Principles of Inorganic chemistry by Cotton & Wilkinson, Wiley (1999).
4. Textbook of Organic chemistry by Ahluwalia V K & Madhuri G Narosa publications (2001).
5. Physical chemistry by Castellan G W, Narosa Publications (2004).
6. Physical chemistry by Chakraborty D K, Narosa Publications (2004).

DEPARTMENT - BIOTECHNOLOGY

MBT EL-2 FUNDAMENTAL OF BIOTECHNOLOGY

Scope and Introduction to Biotechnology History & Introduction to Biotechnology What is Biotechnology? Definition of Biotechnology, Traditional and Modern Biotechnology, Branches of Biotechnology

Plant, Animal Biotechnology, Marine Biotechnology, Agriculture, Healthcare, Industrial Biotechnology, Pharmaceutical Biotechnology, Environmental Biotechnology.

Applications Biotechnology Applications of Biotechnology in Agriculture : GM Food, GM Papaya, GM Tomato, Fungal and Insect Resistant Plants BT Crops, BT Cotton and BT Brinjal Pros and Cons Biotechnological applications in Crop and Livestock Improvements Modifications in Plant Quality Golden Rice, Molecular Pharming, Plant Based Vaccines Ethics in Biotechnology and IPR 15 lectures

Food and Fermentation Biotechnology Food Biotechnology Biotechnological applications in enhancement of Food Quality Unit Operation in Food Processing Quality Factors in Pre processed Food Deterioration and its Control Rheology of Food Products Microbial role in food products Yeast, Bacterial and other Microorganisms based process and products Fermentation Technology Definition, Applications of Fermentation Technology Microbial Fermentations Overview of Industrial Production of Chemicals (Acetic Acid, Citric Acid and Ethanol), Antibiotics, Enzymes and Beverages

Molecular Biology - Replication DNA Replication in Prokaryotes and Eukaryotes Semi-conservative DNA replication, DNA Polymerases and its role, E.coli Chromosome Replication, Bidirectional Replication of Circular DNA molecules. Rolling Circle Replication, DNA Replication in Eukaryotes DNA Recombination – Holliday Model for Recombination Transformation

Mutation and DNA Repair Definition and Types of Mutations. Mutagenesis and Mutagens. (Examples of Physical, Chemical and Biological Mutagens) Types of Point Mutations, DNA REPAIR Photo reversal, Base Excision Repair, Nucleotide Excision Repair, Mismatch Repair, SOS Repair and Recombination Repair.

Genetic Engineering Experimental evidences for DNA and RNA as Genetic Material. Genetic Engineering in Ecoli and other Prokaryotes, Yeast, Fungi and Mammalian Cells Cloning Vectors- Plasmids (pBR 322, pUC) Vectors for Plant and Animal Cells, Shuttle Vectors, YAC Vectors, Expression Vectors Enzymes- DNA Polymerases, Restriction Endonucleases, Ligases, Reverse Transcriptase's, Nucleases, Terminal Transferees, Phosphatases Isolation and Purification of DNA (Genomic, Plasmid) and RNA,, Identification of Recombinant Clones

DEPARTMENT - CHEMISTRY

Block-1	Title: Physical parameters of molecules
Unit-1	Thermodynamics: First and second laws of thermodynamics. Concept of entropy and free energy, entropy as a measure of unavailable energy. Entropy and free energy changes and spontaneity of process.
Unit-2	Chemical kinetics: Rate and order of reaction. Factor affecting the rate of reaction. And determination Order of reaction. Energy of activation and its determination. Brief account of collision and activated complex theories.
Unit-3	Ionic equilibria: pH scale, buffer solutions, calculation of pH of buffer solutions, buffer capacity and buffer index, buffer mixtures.
Unit-4	Electrochemistry: Electrolytic conductance, specific, equivalent and molar conductance, ionic mobility and transference number, factors affecting the electrolytic conductance, Arrhenius theory of strong and weak electrolytes, assumptions of DebyeHuckel theory of strong electrolytes.

Block-2	Title: Organic molecules
Unit-5	Introduction to organic chemistry, atomic orbitals, sigma and pi bond formation-molecular orbital (MO) method, sp, sp ² and sp ³ hybridization, bond length, bond dissociation energies and bond angles
Unit-6	Electronegativity and polarity of the bonds. Classifications and reactions of organic compounds (with examples).
Unit-7	Biological importance of natural products: Amino acids, proteins, carbohydrates (cellulose, starch, glycogen), lipids (fats and oils, phospholipids), nucleic acids, steroids, alkaloids, vitamins, flavonoids.
Unit-8	Applications of synthetic products: Dyes, drugs, polymers (plastics), soaps and detergents, pesticides and pheromones.

DEPARTMENT – CLINICAL NUTRITION AND DIETETICS

OEL - 2: NUTRACEUTICALS AND HEALTH FOODS **2 Credits**

BLOCK 1. NUTRACEUTICALS:

Unit - 1: Introduction to Nutraceutical

Unit - 2: Use of Nutraceuticals in Traditional Health Sciences

Unit – 3: Functional Foods

Unit – 4: Development of Nutraceutical and Functional Foods

BLOCK 2: FUNCTIONAL FOODS AND NUTRACEUTICALS OF PLANT, ANIMAL AND MIRCIBIAL ORIGIN

Unit - 5: Prebiotics and Probiotics

Unit - 6: Bio Active Peptides and Phyto- Chemicals

Unit - 7: Fats and Oils- Omega 3 Fatty Acids:

Unit - 8: Sugar Substitutes / Sweeteners

REFERENCES:

- Tai Hu Guan, (2018), text book of Nutraceuticals and Health, Scitus Academics Publisher, Wilmington DE 19804, United States of America.
- Wildman REC, (2016), Handbook of Nutraceuticals and Functional Foods, 2nd edition, CRC Press publishers, Boca Raton, Florida (USA).
- Athapol Noomhorm, Imran Ahmad, Anil Kumar Anal (2014), Functional Foods and Dietary Supplements Processing, Effects and Health Benefits, first edition, published by John Wiley & Sons, Ltd. UK 111 River Street, Hoboken, NJ 07030-5774, USA
- Wildman REC, (2001) Handbook of Nutraceutical and Functional Foods, CRC Press, USA. Ghosh D et al, (2012) Innovations in Healthy and Functional Foods, CRC Press, USA. Pathak YV (2011) Handbook of nutraceuticals Volume 2, CRC Press, USA.

DEPARTMENT - COMPUTER SCIENCE

ELMCS- 02: E -Commerce

BLOCK-1

UNIT-1: Overview of developments in Information Technology and Defining E-Commerce: The scope of E commerce, Electronic Market, Electronic Data Interchange, Internet Commerce, Benefits and limitations of E-Commerce, Produce a generic framework for E-Commerce,

UNIT-2: Architectural framework of Electronic Commerce, Web based E Commerce Architecture. Consumer Oriented E Commerce E-Retailing: Traditional retailing and e retailing, Benefits of e retailing,

UNIT-3: Key success factors, Models of e retailing, Features of e retailing. E services: Categories of e-services, Web-enabled services, matchmaking services,

UNIT-4: Information-selling on the web, e entertainment, Auctions and other specialized services. Business to Business Electronic Commerce

BLOCK-2

UNIT-5: Electronic Data Interchange: Benefits of EDI, EDI technology, EDI standards, EDI communications, EDI Implementation, EDI Agreements, EDI Security. Electronic Payment Systems, Need of Electronic Payment System:

UNIT-6: Study and examine the use of Electronic Payment system and the protocols used, Study Electronic Fund Transfer and secure electronic transaction protocol for credit card payment. Digital economy: Identify the methods of payments on the net – Electronic Cash, cheques and credit cards on the Internet.

UNIT-7: Security in E Commerce Threats in Computer Systems: Virus, Cyber Crime Network Security: Encryption, Protecting Web server with a Firewall, Firewall and the Security Policy, Network Firewalls and Application Firewalls, Proxy Server. Issues in E Commerce Understanding Ethical,

UNIT-8: Social and Political issues in E-Commerce: A model for Organizing the issues, Basic Ethical Concepts, Analyzing Ethical Dilemmas, Candidate Ethical Principles Privacy and Information Rights: Information collected at E-Commerce Websites, The Concept of Privacy, Legal protections Intellectual Property Rights: Types of Intellectual Property protection, Governance.

References:

1. Elias. M. Awad, " Electronic Commerce", Prentice-Hall of India Pvt Ltd.
2. RaviKalakota, Andrew B. Whinston, "Electronic Commerce-A Manager's guide", Addison-Wesley.
3. Efraim Turban, Jae Lee, David King, H.Michael Chung, "Electronic Commerce–A ManagerialPerspective", Addison-Wesley.
4. Elias M Award, "Electronic Commerce from Vision to Fulfilment", 3rd Edition, PHI, Judy Strauss, Adel
5. El-Ansary, Raymond Frost, "E-Marketing", 3RDEdition, Pearson Education.

DEPARTMENT - GEOGRAPHY

ELMG –02 Regional Geography of Karnataka (Credits – 2)

Block-1

Physical setting - Location, Administrative divisions, Geology, Physiographic divisions of the Karnataka; Climate and Rivers; Soils and Vegetation; Irrigation in Karnataka, Major Multipurpose River Valley Projects, Major water problems and Issues - Yetthinahole, Linganamakki, Mekedatu, Krishna-Cauvery valley-linking Rivers.

Block-2

Agriculture - Major of Crops: Rice, Jowar, Ragi, Wheat, Oil seeds, Sugarcane, Cotton, Tobacco and Coffee; Minerals Resources - Iron ore, Manganese, Bauxite, Copper, Gold; Major Power Projects - Hydrel, Thermal and Atomic Energy power plants; Industries - Cotton Textile, Silk Textile, Sugar, Iron and Steel, Cement and Paper industries, Industrial Regions of Karnataka; Transportation - Roads, Railway, Water way, Ports/Harbors and Airways; Population - growth, distribution and density

References:

1. Directorate of Information and Tourism, Government of Karnataka Karnataka State Gazetteer
2. Mallappa, P., (2014) Geography of Karnataka, Chethana book publishers, Mysuru
3. N.B.K Reddy & G.S. Murthy, (1967) Regional Geography of Mysore State
4. R.P. Misra, (1973) Geography of Mysore
5. Ranganath, (2018) Geography of Karnataka, Mysore Book House, Mysuru

DEPARTMENT - MATHEMATICES

Combinatorics and Graph Theory (ELMM –02) 2 Credits

Block-I: Permutations and Combinations, Pigeon-hole principle, Principle of inclusion and exclusion.

Block-II: Graphs, Vertices of graphs, Walks and connectedness, Degrees, Operations on graphs, Blocks – Cutpoints, bridges, Block graphs and Cutpoint graphs. Trees - Elementary properties of trees,

Books for Reference:

1. C. L. Liu – Elements of Discrete Mathematics, McGraw-Hill, 1986.
2. Kenneth H. Rosen – Discrete Mathematics and its Applications, McGraw-Hill, 2002.
3. F. Harary – Graph Theory, Addition Wesley Reading Mass, 1969.
4. N. Deo – Graph Theory With Applications to Engineering and Computer Science, Prentice Hall of India, 1987.
5. K. R. Parthasarathy – Basic Graph Theory, Tata McGraw-Hill, New Delhi, 1994.
6. G. Chartand and L. Lesniak – Graphs and Diagraphs, wadsworth and Brooks, 2nd Ed.,
7. Clark and D. A. Holton – A First Look at Graph Theory, Allied publishers.
8. D. B. West – Introduction to Graph Theory, Pearson Education Inc.,2001, 2nd Ed.,
9. J. A. Bondy and U. S. R. Murthy – Graph Theory with applications, Elsevier, 1976.

DEPARTMENT - MICROBIOLOGY

Microbes in Sustainable Agriculture and Development

- i. Soil Microbiology: Soil as Microbial Habitat, Soil profile and properties,
- ii. Soil formation, Diversity and distribution of microorganisms in soil.
- iii. Microbial Activity in Soil and Green House Gases- Carbon dioxide, methane, nitrous oxide, nitric oxide – production and control
- i. Mineralization of Organic & Inorganic Matter in Soil: Mineralization of cellulose, hemicelluloses, lignocelluloses, lignin and humus, phosphate, nitrate, silica, potassium .
- ii. Microbial Control of Soil Borne Plant Pathogens: Biocontrol mechanisms and ways, Microorganisms used as biocontrol agents against Microbial plant pathogens, Insects, Weeds.
- iii. Biofertilization, Phytostimulation,
- iv. Bioinsecticides: Plant growth promoting bacteria, biofertilizers – symbiotic (Bradyrhizobium, Rhizobium, Frankia),

- v. Non Symbiotic (Azospirillum, Azotobacter, Mycorrhizae, MHBs, Phosphatesolubilizers, algae),
- vi. Novel combination of microbes as biofertilizers, PGPRs
- i. Secondary Agriculture Biotechnology: Biotech feed, Silage, Biomanure, biogas, biofuels – advantages and processing parameters.
- ii. GM crops: Advantages, social and environmental aspects, Bt crops, golden rice, transgenic animals.

References:

1. Eldor A. Paul. Soil Microbiology. Ecology and Biochemistry. VI Edition: Academic Press, (2007).
2. Eugene L. Madsen. Environmental Microbiology: From Genome to Biogeochemistry. I Edition, Wiley-Blackwell Publishing. (2008).
3. Agrios, G.N. Plant pathology. Harcourt Asia Pvt. Ltd. (2000).
4. Buchanan. B.B., Grissem, W. and Jones, R.L Biochemistry and Molecular Biology of Plants. I.K. International Pvt. Ltd. (2000).
5. Mehrotra R S and Ashok Agrawal. Plant Pathology. Tata Mc Graw Hill ,6th reprint (2006).
6. K. S. Bilgrami, H. C. Dube. A textbook of modern pathology. 6th Edition, Vani Educational Books, a division of Vikas, (1984).
7. K.R. Aneja .Experiments in Microbiology, Plant Pathology and Biotechnology . New Age

Publications.2017

DEPARTMENT - PHYSICS

MP-EL2: Waves and Optics

BLOCK-A:

Unit-1: Superposition of Two Collinear Harmonic oscillations: linearity & superposition principle. (i) Oscillations having equal frequencies and (ii) oscillations having different frequencies (Beats).

Unit-2: Waves Motion- General: Transverse waves on a string, travelling and standing waves on a string, normal modes of a string, group velocity, phase velocity, plane waves, Spherical waves, wave intensity.

Unit-3: Fluids: Surface tension: synclastic and anticlastic surface - excess of pressure - application to spherical and cylindrical drops and bubbles. viscosity - rate flow of liquid in a capillary tube - Poiseuille's formula - determination of coefficient of viscosity of a liquid.

Unit-4: Sound: Simple harmonic motion - forced vibrations and resonance intensity and loudness of sound, intensity levels, musical notes, musical scale, acoustics of buildings: reverberation and time of reverberation, absorption coefficient, Sabine's formula - measurement of reverberation time.

BLOCK-B:

Unit-5: Wave Optics: electromagnetic nature of light, definition and properties of wave front, Huygen's Principle.

Unit-6: Interference: Interference: division of amplitude and division of wavefront. Young's double slit experiment, interference in thin films: parallel and wedge-shaped films, Newton's Rings: measurement of wavelength and refractive index.

Unit-7: Diffraction: Fraunhofer diffraction- single slit and double Slit, multiple slits and diffraction grating, Fresnel diffraction: half-period zones, zone plate, Fresnel diffraction pattern of a straight edge, a slit and a wire using half-period zone analysis.

Unit-8: Polarization: Transverse nature of light waves, plane polarized light – production and analysis, circular and elliptical polarization.

DEPARTMENT -PSYCHOLOGY

EL-2 Psychology in Everyday Life 2 Credits

Block 1: Applications of Psychology-I

Unit 1: Psychology as a Profession

Unit 2: Memory Improving Techinques

Unit 3: Stress and Emotional Management

Unit 4: Personality Development

Block 2: Applications of Psychology-II

Unit 5: Psychology in Educational Settings

Unit 6: Psychology in Health Setting

Unit 7: Psychology in Organizational Setting

Unit 8: Adjustment to Family and Work Place

References:

1. Charles G.Morris. Albert A. Maisto Psychology an Introduction , Prentice Hall. New Jersey.
2. Feldman, A. R.,Understanding Psychology IV th Ed, 1996, McGraw Hill, New Delhi.
3. Morgan, King, Weisz &Schopler, Introduction to Psychology-V11 Ed,1993, Tata McGraw Hill, New Delhi.
4. Ernest R Hilgard, Richard C Atkinson ,Rita L Atkinson Introduction to Psychology Oxford Publication, New Delhi.

DEPARTMENT -INFORMATION TECHNOLOGY

ELMIT –02 E-Commerce (2 Credits)

Block 1:Fundamentals of E-commerce

Unit 1 : Introduction to E-commerce

What Is E-commerce? The Difference Between E-commerce and E-business, Technological Building Blocks Underlying E-commerce: the Internet, Web, and Mobile Platform, Major Trends in E-commerce, Unique Features of E-commerce Technology

Unit 2 : Types of E-commerce:

Business-to-Consumer (B2C) E-commerce, Business-to-Business (B2B) E-commerce. Consumer-to-Consumer (C2C) E-commerce, Mobile E-commerce (M-commerce), Social E-commerce, Local E-commerce E-commerce: A Brief History, Understanding E-commerce: Organizing Themes, Academic Disciplines Concerned with E-commerce

Unit 3 : E-Commerce Infrastructure

The Internet, Technology Background , Internet – Key Technology concepts, TCP/IP, IP addresses, Domain names, DNS and URLs, Client Server Computing, Cloud computing model, Mobile platform

Unit 4 : Internet and Web

Hypertext, HTML, XML, Web servers and clients, Web browsers, Communication tools – E mail, messaging apps, online message boards, Internet Telephony

Block 2: Construction of E-commerce presence

Unit 5: E-commerce presence – Building an e-commerce idea, Systematic approach, Choosing software and hardware, E-commerce site tools

Unit 6: E-commerce security E-commerce System environment, Security threats, Technology solutions

Unit 7: E-commerce payment systems : Management policies, E-commerce payment systems, Electronic billing presentment and payment

Unit 8: E-commerce Business Strategies : E-commerce business models, Major B2C Business models, B2B Business models,

References:

1. Laudon, Kenneth C., and Carol Guercio Traver. *E-Commerce 2020-2021*. Pearson, 2020.
2. Laudon, Kenneth C., and Carol Guercio Traver. *E-commerce Essentials*. Pearson, 2014

DEPARTMENT - BOTANY

Plant Diversity and Human Welfare

Plant Diversity and its Scope Levels of biodiversity: Genetic, Species and Ecosystem; Agrobiodiversity and cultivated plant taxa and related wild taxa.

Values and uses of Biodiversity, Methodologies for valuation, Ethical and aesthetic values, Uses of plants; Ecosystem services.

Loss of Biodiversity Loss of biodiversity- causes and implications, Hot spots of biodiversity, extinction of species, projected scenario for biodiversity loss.

Management of Plant Biodiversity Organizations associated with biodiversity management, IUCN, UNEP, WWF, UNESCO, NBPGR; Methodology for execution;

Biodiversity legislation; Information management and communication.

Conservation of Biodiversity, Role of Plants in Relation to Human Welfare Conservation of genetic, species and ecosystem diversity,

In situ and ex situ conservation strategies, India's biodiversity and its conservation Social approaches to conservation,

Biodiversity awareness programmes, Sustainable development.

Importance of forestry their utilization and commercial aspects; Avenue trees; Ornamental plants of India; Alcoholic beverages; Fruits and nuts; Wood and its uses; their commercial importance.

References

1. Krishnamurthy, K.V. (2004). An Advanced Text Book of Biodiversity - Principles and Practices. Oxford and IBH Publications Co. Pvt. Ltd. New Delhi
2. Singh, J.S., Singh, S.P. and Gupta, S. (2006). Ecology Environment and Resource Conservation. Anamaya Publications, New Delhi, India.
3. Reddy, K.V. and Veeraiah, S. (2010). Biodiversity and Plant Resources. Aavishkar publication, New Delhi.
4. Heywood, V. H. and Watson, R. T. (1995). Global biodiversity and Assessment. Cambridge University Press.

DEPARTMENT –FOOD AND NUTRITION SCIENCE

OEL-2: NUTRITIONAL MANAGEMENT IN DISASTER CONDITIONS

BLOCK- I: NATURAL / MANMADE DISASTERS

Unit-1: Emergency Situations-Famine, Drought, Flood, Earthquake, Cyclone, War, Civil and Political Emergencies.

Unit-2: Nutrition in Emergencies, Nutritional Problems and Communicable Diseases.

Unit-3: Feeding Programs during Emergencies.

Unit-4: Assessment and monitoring of Nutritional Status and relief measures during emergencies.

BLOCK- I: NUTRITIONAL RELIEF AND REHABILITATION

Unit-5: Assessment of Food needs in emergency situations, Food Distribution Strategy, Local food rehabilitation.

Unit-6: Special Foods/ Rations for Nutritional Relief, Organizations for Mass Feeding/ Food Distribution, and Supplementary Feeding.

Unit-7: Transportation, Storage, Feeding Centres, Sanitation, Hygiene and Identifying Reaching the Vulnerable Group.

Unit-8: Public Nutrition Approach to Tackle Nutritional and Health Problems in Emergencies, food security.

REFERENCES:

Jaspars, S. & Young, H. (1996), General Food Distribution in Emergencies: from Nutritional Needs to Political Priorities. Good Practice Review 3. 1996. Relief and Rehabilitation Network, Overseas Development Institute. London.

Young H., Jaspars S., Brown R., Frize J. & Khogali H (2001), Food Security and Assessments in Emergencies: A Livelihoods Approach. Humanitarian Practice Network, Overseas Development Institute. London