SEMESTER III

COURSE DETAILS – 1
SUBJECT NAME – PATANJAL YOGA SUTRA & SHASTRA SMARAN
SUBJECT CODE – BAYSMJ- 301

CREDIT: 5	CA: 25	SEE: 75	MM: 100

Learning Objectives:

Following the completion of this course, students shall be able to:

• Grasp various modification of mind and the means of inhibiting them.

• Grasping about the essence of Samadhi and Sadhana Pada.

• Understand the essence of Vibhuti and Kaivalya pada.

• Quote references of each practice as per traditional texts.

	BLOCK-01: SAMADHIPADA
UNIT-01	Concept of Chitta; Chitta Bhoomis (Kshipta, Mood, Vikshipta, Ekagra, Nirudha); Chitta- Vrittis and their classification, Chitta-Vritti Nirodhopaya (Abhyasa and Vairagya)
UNIT-02	Concept of Ishwar andIshwar Pranidhana, Qualities of Ishwar, Chitta-Vik-shepas (Antarayas
UNIT-03	Concept of Chitta-prasadanam, Relevance of Chitta-prasadanam in Yoga Sadhana
UNIT-04	Types of Samadhi (Samprajnatah and Asamprajnatah Samadhi); Types of Samprajnatah Samadhi (Vitarka,Vichara, Anand and Ashmita); Concept of Samapatti and kinds of Samapatti (Savitraka and Nirvitraka, Savichara and Nirvichara); Types of Asamprajnatah Samadhi (Bhavapratyaya and Upay-apratyaya)
	BLOCK-02: SADHANAPADA

UNIT-01	Concept of Kriya Yoga of Patanjali
UNIT-02	Theory of Kleshes (Avidya, Ashmita, Raga, Dewesh, Abhinevesh)
UNIT-03	Concept of Dukhavada (Heya, Heya Hetu, Hana, Hanopaya) Drishya Nirupam (Prakriti), Drashta Nirupana (Purusha), Prakriti Purusha Samyog
UNIT-04	Brief Introduction to Ashtanga Yoga; Concept of Asana and Pranayama and their Siddhis; Concept of Pratyahara and its Siddhis
	BLOCK-03: VIBHUTIPADA & KAIVALYAPADA
UNIT-01	Introduction, role and application of Dharana, Dhyana and Samadhi, Samyama and its Siddhis
UNIT-02	Introduction of three types of Chitta Parinamah (transformation of the mind); Discuss the five types of Siddhis and the concept of JatyantarParinamh
UNIT-03	Concept of Nirman Chitta and four types of Karmas
UNIT-04	Concept of Vasana and concept of BahyaPadartha (external element) and its abilities, Vivek Jnana Nirupanam, Kaivalya Nirvachana
	BLOCK-04: SHASTRA SMARAN OF ABOVECOURSE CONTENT

TEXT BOOKS

- Yogrishi Swami Ramdev Ji: Patanjala Yog Darshan, Divyayog Prakashan, Haridwar 2008.
- Yoga Darshan: Geeta Press Gorakhpur.
- Patanjal Yogasutra: PV Karambelkar: Kaiva;yadhama Publication, 2014
- BKS Iyengar: Introduction of Patanjali Yogasutra-s: MDNIY, New Delhi, 2011.
- Swami Ved Bharti: Yogasutra of Patanjali (with the Exposition of Vyasa) M.L.B.D. New Delhi, 2004, Vol I & II.

BOOKS FOR REFERENCE

- Vyasbhasya
- Bhojvritti

COURSE DETAILS – 2
SUBJECT NAME – YOGA PRACTICUM
SUBJECT CODE – BAYSMJ- 302

CREDIT: 4	CA: 25	SEE: 75	MM: 100

Learning Objectives:

Following the completion of this course, students shall be able to:

- Understand the principle and practice of each practice.
- Demonstrate each practice skilfully.
- Explain the procedure, precaution, benefits and limitations of each practice.
- Quote references of each practice as per traditional texts

Learning Outcomes:

On completion of this course, the students will be able to:

- Develop to have a perception of different yogic techniques.
- Attain perfection to perform different yogic practices.
- Learn the practical interpretation of Shatkarma, Yogasana, Yajna & Marma.
- Can develop the calibre to conduct practical sessions.

	BLOCK-01: ALL PRACTICES OF PREVIOUSSE MESTERS
UNIT-01	**Including 12 dand, 8 baithak**
	BLOCK-02: SHATKARMAS
UNIT-01	Vastra Dhauti, Sutra Neti, Nauli Chalana, Agnisara.
	BLOCK-03: YOGASANA (SITTING POSTURES)
UNIT-01	Dandasana, Swastikasana, Padmasana,Vajrasana, Supta Vajrasana, Kagasana, Utkatasana, Gomukhasana, Ushtrasana, Shashankasana, Janusirasana, Paschimottanasana, Bhramacharyasana, Mandukasana, UtthanaMandukasana, Tadasana, TiryakTadasana, Vakrasana, Ardha Matsyendrasana, Marichayasana, Simhasana.
	BLOCK-04: PRANAYAMA

UNIT-01	Types of Kumbhaka, Bhramari, Suryabhedan, Ujjai, Sheetkaari, Sheetli, Bhastrika, Murchha, Plavani, Kevali.
	BLOCK-05: MUDRA&BANDH
UNIT-01	Jalandhar Bandh, Udyan Bandh and Mool bandh, Maha Bandh Mudra.
	BLOCK-06: MARMATHERAPY
UNIT-01	Identification of various Marma points; Application on Marma Points; Activation of Marma Points, its practice and procedure. Therapeutic application of Marma points.

TEXT BOOKS

- Yogrishi Swami Ramdev Ji: Pranayama Rahasya, Divya Prakashan, Haridwar, 2009

- Basavaraddi, I.V. & others: SHATKARMA: A Comprehensive description about Cleansing Process, MDNIY New Delhi, 2009

- Swami Dhirendra Bhramhachari: Yogasana Vijnana,Dhirendra Yoga Publications, New Delhi, 1966.

- Swami Kuvalyananda: Asana, Kaivalyadhama, Lonavla, 1983

BOOKS FOR REFERENCE

- Basavaraddi I. V. & Others : Teachers Manual for School Teachers, MDNIY, New Delhi, 2010
- Yajynopathy: Brahmvarchas, Sri Vedmata Gayatri Trust, Shantikunj, Haridwar.
- Yajna se hoga sunahra kal: Dr Rochna Bharti, Srirang Prakashan, Nashik.
- Yajnotherapy: Sandip Arya, Vijaikumar Govindram Hasanand,4408 nai sadak, New Delhi.
- Marma Chikitsavijnana: Prof. Sunil Kumar Joshi, Mrityunjaya Mission, Aadi Arts, Haridwar.

COURSE DETAILS – 3
SUBJECT NAME – STRESS MANAGEMENT (ELECTIVE)
SUBJECT CODE – BAYSMN – 303(A)

CREDIT: 6	CA: 25	SEE: 75	MM: 100

Learning Objectives:

- To understand the nature and consequences of stress.
- To understand behavioural aspects of stress.
- To recognize various strategies of stress management.

Learning Outcomes (LOs):

After completion of the course students will be able to:

- Identify the symptoms and causes of stress.
- Apply stress management skills for holistic wellbeing.
- Assess stress with the help of psychological tests.

	BLOCK-01: INTRODUCTION TO STRESS
UNIT-01	Concept, meaning, definitions and nature of stress
UNIT-02	Types of stress, stressors, physiological and psychological changes
UNIT-03	Theroleofcognitiveappraisalinstress
UNIT-04	Consequencesofstress,stressandhealth
	BLOCK-02:BEHAVIORAL ASPECTS OF STRESS
UNIT-01	Thegeneraladaptationsyndrome
UNIT-02	Psycho-neruro-immunology,stress,moodandimmunefunctioning
UNIT-03	Socialsupportandimmunefunctioning
UNIT-04	Emotionalhealthandimmunefunctioning
	BLOCK-03: COPING WITH STRESS
UNIT-01	Copingprocess,problemsolvingandemotionalregulation

UNIT-02	Copingstrategies(ChoenandLazarus)
UNIT-03	CognitiveCopingStyles
UNIT-04	Causal Attributions and Explanatory Styles
	BLOCK-04: STRATEGIES OF STRESS MANAGEMENT
UNIT-01	Senseofcontrol,Hardiness,worldviewandsenseofCoherence
UNIT-02	Socialresourcesandsocialsupport&emotionaldisclosure
UNIT-03	MentalControl,Cognitiveretraining
UNIT-04	Relaxation techniques (Tratak meditation, mantra meditaion: Shiv Sankalp Mantra, Guided Imaginary, Biofeedback)
	BLOCK-05: PSYCHOLOGY PRACTICAL
UNIT-01	Student Stress Scale
UNIT-02	Perceived Stress Scale
UNIT-03	Perceived Stress Questionnaire

Reference Books:

- Dimatteo, M. R., & Martin, L. R. (2018) Health Psychology, 1st edition. Pearson Education, Inc. 2. Taylor S.E (1998) Health Psychology 3rd edition, New York. Mc GrawHill

Text Books:

- Dutta, P. K, (2010) Stress management Himalaya, Himalaya Publishing House.
- Khokhar, C. P. (2007). A text Book of Stress, Coping and Health, Shalabh Publication, Shastri Nagar Meerut.
- Hariharan, Meena. (2008). Coping with life stress: The Indian Experience. Sage India; First Edition. ISBN-13 :978-0761936558

COURSE DETAILS –3
SUBJECT NAME – ANCIENT INDIAN SOCIAL LIFE AND INSTITUTIONS
SUBJECT CODE – BAYSMN-303 (B)

CREDIT: 6	CA: 25	SEE: 75	MM: 100

Objectives:

This course introduces to the students the basic social ideas and institutions of ancient India. Social stratifications through Varna-Ashram system and the necessity and significance of the institutions of marriage and family are discussed in first two units respectively. The health of any society is manifested through the position a woman enjoys. This is brought to the fore in the third unit. The ethical values cherished upon the idea behavior patterns are the subject matters of the fourth unit, while the fifth unit describes the educational system of ancient India.

	BLOCK-01: Varna-Ashrama and Jati: Origins and Evolution
UNIT-01	Varna-Ashrama System , Origin and development of Varna Vyavastha
UNIT-02	Origin, development and significance of Ashrama
UNIT-03	Jati Vyavastha
	BLOCK-02: Grihastha Dharma
UNIT-01	Marriage and Family, Concept and component of family
UNIT-02	Meaning and objectives of marriages, Types of marriages
	BLOCK-03: Status of Women
UNIT-01	Position and Role of Women
UNIT-02	Position and status of women in Ancient society
UNIT-03	Stree Dhan and her Property rights
	BLOCK-04: Purushartha Patha
UNIT-01	Purusharth and Samsakaras
UNIT-02	Types of Purushartha and Types of Samsakaras

	BLOCK-05: Education System
UNIT-01	Education System: Introduction, Objectives of education
UNIT-02	Important centers of education: Nalanda, Balabhi, Kashi and Taxila

Text Book:

- Mishra, J.S., Prachin Bharat ka Samajik Itihas, Patana, 1986

Recommended Readings:

- Altekar, A. S., Education in Ancient India (Also in Hindi)
- Altekar, A.S., Position of Women in Hindu Civilization
- Dutt, N. K., Origin and Growth of Caste in India, Calcutta, 1931.
- Jauhari, M., Prachin Bharata Mem VarnasramaVyavastha (Hindi), Varanasi, 1985.
- Kapadia, K. M., Marriage and Family in India (English)
- Tripathi, L.K. (ed.), Position and Status of Women in Ancient India, 2 Vols., Varanasi, 1988 and 1992

COURSE DETAILS –3
SUBJECT NAME – TRANSPORT AND HOTEL MANAGEMENT (ELECTIVE)
SUBJECT CODE – BAYSMN-303 (C)

CREDIT: 6	CA: 25	SEE: 75	MM: 100

Objectives: Transportation & Accomodationare the vital components of the travel and tourism industry. Thereby it becomes imperative for the students of tourism to learn about different modes of transportation & hotels in modern world in general, and in India, in particular. The course attempts to provide an insight into deferent types of transportation, types of Hotels, concept of hospitality, the on-going charges, growth, present status, government policies, problems and management. Thus this course emphasizes on the knowledge of the 'Multi dimensional Key' which opens vast venues of world's largest service sector, that is tourism.

	BLOCK-01: Transportation:Meaning,Background& Types
UNIT-01	Transportation Meaning, Background of transportation system,
UNIT-02	Importance of Transportation in Tourism,
UNIT-03	Patterns of demand for Tourism and Transportation.
UNIT-04	Major Types of Transportation in Tourism.
	BLOCK-02: Air&WaterTransport
UNIT-01	Air Transportation Meaning, Evolution of Civil Aviation in India Functions of IATA, & DGCA.
UNIT-02	Case study on Failure of Kingfisher Airlines in India.
UNIT-03	Water transport system, Background & types of water transport system.
	BLOCK-03:Land Transport
UNIT-01	Road transport system, Document connected with transport, RTO, Insurance Documents, Road Tax and Fitness Certificates, NHAI.
UNIT-02	Rail Transport system, Major Railway system of world, Indian Railways, Tourist trains, viz Palace on wheels, Maharaja Express.
	BLOCK-04: Hospitality:Meaning and Nature

UNIT-01	Defining Hospitality: Nature and its Meaning, Age old Institution of Hospitality with the Spirit of 'Atithi Devo Bhav' in India and its present status.
	BLOCK-05: Hotel Management
UNIT-01	Classification of Hotels on Basis of Location, Size, Clientele and Range of Service etc Star Classification – Criteria and Procedure Adopted in India.
UNIT-02	Main departments in Hotel: Front Office, Food Production, F&B Service & House Keeping. The Taj Group of Hotels, FHRAI.

Text Books:

- Singh, R.L., India: A Regional Geography, National Geographical Society of India, Varanasi, 1989
- Aggarwal, Surinder: 'Travel Agency Management', communication India, NewDelhi, 1983
- Hannel Christine, Robert Harshman and Grahan Draper- Travel and Tourism: A world regional geography, john Wiley and Sons, NewYork, 1992
- Hurst, Elist, 'Transporation Geography' McGraw Hill, NewYork, 1974
- Introduction to Hospitality Industry-Bagri S.C. & Dahiya Ashish, Aman Publications, 2008 Hotel and Lodging Management and Introduction: Alan T. Stutis& James F.

COURSE DETAILS – 3
SUBJECT NAME –SANSKRITAM-III (ELECTIVE)
SUBJECT CODE – BAYSMN-303(D)

CREDIT: 6	CA: 25	SEE: 75	MM: 100
	BLOCK-01: सन्धिप्रकरणम् (सन्धिविधायकसूत्रमात्रम्)		
UNIT-01	सन्धिविच्छेदकरणम्, सूत्रव्याख्या, सूत्रस्मरणम्		
	BLOCK-02: भगवद्गीता – द्वितीयोऽध्यायः (चयनिताः ३५ श्लोकाः)		
UNIT-01	श्लोकस्मरणम्, श्लोकव्याख्या, निबन्धात्मकप्रश्नाः		
	BLOCK-03: हितोपदेशः – मित्रलाभः		
UNIT-01	श्लोकव्याख्या, निबन्धात्मकप्रश्नाः		

	BLOCK-04: योगसूत्रम् - साधनपादः
UNIT-01	सूत्रस्मरणम्, सूत्रव्याख्या, निबन्धात्मकप्रश्नाः

	BLOCK-05: धातुरूपमात्रम् एवं शब्दरूपमात्रम्
UNIT-01	**धातुरूपमात्रम् - लट्, लृट्, लोट्, लङ्, विधिलिङ्मात्रम् (वाक्यरचनाअनुवादश्च)** हस्, लभ्, नी, ह्, याच्, अद्, इण्, या, पा (रक्षणे), आस्, शी, हु, भी, हा, ह्री, मा, नश्, पद्, युध्, आप्।
UNIT-02	**शब्दरूपमात्रम् (वाक्यरचनाअनुवादश्च)** पाद, गोपा, भूपति, सुधी, स्वभू, नृ, प्राञ्च्, भूभृत्, धीमत्, महत्, लता, मति, स्त्री, ज्ञान, मघवन्, पथिन्, लिह्, चतुर् (त्रिषुलिङ्गेषु)।

निर्धारितग्रन्थाः

1.   व्याकरणचन्द्रोदय (१) - डॉ० आचार्यासाध्वीदेवप्रिया, दिव्यप्रकाशन, हरिद्वारम्

2.   भगवद्गीता - गीताप्रेस, गोरखपुर

3.   हितोपदेशः - चौखम्बासंस्कृतप्रतिष्ठान, दिल्ली

4.   योगदर्शन - स्वामिरामदेव, दिव्यप्रकाशन, हरिद्वारम्

5.   प्रौढ रचनानुवादकौमुदी - डॉ० कपिलदेव द्विवेदी, विश्वविद्यालय **प्रकाशन, वाराणसी**

COURSE DETAILS – 4
SUBJECT NAME – INDIAN KNOWLEDGE SYSTEM-1
SUBJECT CODE – BAYSID-304

CREDIT: 2	CA: 13	SEE: 37	MM: 50

Learning Objectives:

This course targets empowerment of learners to:

- Demonstrate and apply yoga style of swami Ramdev for lifestyle moderation, health promotion and healing.
- Carry out field projects regarding utility of Swami Ramdev yoga style.

BLOCK-01: INDIAN PHILOSOPHICAL SYSTEMS-PART (A)	
UNIT-01	**CaturdasaVidyasthana – The Fourteen Branches of Learning and Vedangas** covering an overview of the 14 branches of ancient Indian learning, including Purana, Nyaya, Mimamsa, Dharmashastra, and the Six Vedangas—Siksa, Vyakarana, Nirukta, Chanda, Jyotisa, and Kalpa
UNIT-02	**The Four Vedas and Their Significance** including an introduction to Rigveda, Yajurveda, Samaveda, and Atharvaveda, along with their philosophical and practical relevance in ancient Indian traditions
UNIT-03	**The Eighteen Puranas and Their Characteristics** covering the names and classifications of the 18 Puranas, along with their five general characteristics—Sarga, Pratisarga, Vamsa, Manvantara, and Vamsanucarita
BLOCK-02: INDIAN PHILOSOPHICAL SYSTEMS-PART (B)	
UNIT-01	**Ancient Indian Gurukula System and Its Contributions** providing an overview of the Gurukula education system and the contributions of ancient universities such as Nalanda, Taxila, Vikramasila, Valabhi, Odantapuri, Mithila, Kanchi, Nadia, Pushpagiri, Nagarjunakonda, Saradapitha, Kashmir, Ujjain, Jagaddala, and Somapura
UNIT-02	**The Concept of Purusharthas: Dharma, Artha, Kama, and Moksha** explaining the definitions and philosophical interpretations of the four Purusharthas, along with the root and derivation of the word 'Dharma' with references from Mahabharata, Manusmriti, and Vaisesika Sutra
UNIT-03	**Types and Applications of Dharma** elaborating on the various forms of Dharma, including Kamya, Nitya, Nisiddha, Naimittika, Prayascita, and Upasana, and their practical applications in ancient Indian society
UNIT-04	**Social and Cultural Perspectives in Indian Philosophy** discussing the significance of pilgrimage (Tirthayatra) and religious festivals, the importance of Saptapuri (the seven sacred cities) and the twelve Jyotirlingas, and the role of these traditions in unifying India.

Reference books:

- An Introduction to Indian Knowledge Systems: Concepts and Applications, B Mahadevan, V R Bhat, and Nagendra Pavana R N; 2022 (Prentice Hall of India).
- Indian Knowledge Systems: Vol I and II, Kapil Kapoor and A K Singh; 2005 (D.K. Print World Ltd).

- Baladev Upadhyaya, Samskrta Śāstrom ka Itihās, Chowkhambha, Varanasi, 2010.
- 4 The Beautiful Tree: Indigenous India Education in the Eighteenth Century, Dharampal, Biblia Impex, New Delhi, 1983. Reprinted by Keerthi Publishing House Pvt Ltd., Coimbatore, 1995.
- 5 Indian Science and Technology in the Eighteenth Century, Dharampal. Delhi: Impex India, 1971. The British Journal for the History of Science.
- 6. D. M. Bose, S. N. Sen and B. V. Subbarayappa, Eds., A Concise History of Science in India, 2nd Ed., Universities Press, Hyderabad, 2010.
- 7. Dharampal, Some Aspects of Earlier Indian Society and Polity and Their Relevance Today, New Quest Publications, Pune, 1987.
- Mohanty, J. N. (2008). A History of Indian Philosophy. A Companion to World Philosophies, 24–48.
- Potter, K. H. (1987). Encyclopedia of Indian Philosophies Vol IV. Delhi, India: Motilal Banaridass Publishers.
- Press, O. U. (1928). Indian Philosophy: A Very Short Introduction. Mind (Vol. 37).
- Radhakrishnan, S., & Moore, C. A. (Eds.). (1957). A Source Book in Indian Philosophy. New Jersey, NJ: Princeton University Press.
- Schweizer, P. (1993). Mind/ Consciousness Dualism in Sankhya-Yoga Philosophy.
- Philosophy and Phenomenological Research, 53(4), 845–859. doi:10.2307/2108256
- Timalsina, S. (2008). Consciousness in Indian philosophy: The Advaita doctrine of "awareness only."

COURSE DETAILS – 5
SUBJECT NAME – SANSKRITAM II
SUBJECT CODE – BAYSAE-305

CREDIT: 2	CA: 13	SEE: 37	MM: 50

Objectives:

Following the completion of this course, students shall be able to

- Read and understand the colloquial words of Sanskrit.
- Communicate and comprehend Sanskrit to the best of their ability.
- Write Sanskrit with better grammatical skill.

Block-1: संस्कृतभाषा परिचय [8HRS]
पठ् एवं कृ धातु का कर्मवाच्यरूप ज्ञान पाँच लकारों लट्, लृट्, लङ्, लोट्, लिङ् में एवं वाक्य निर्माण अर्थज्ञान सहित। अस् एवं भू धतु का भाववाच्यरूप ज्ञान पांच लकारों लट्, लृट्, लङ् लोट्, विधिलिङ् में एवं वाक्य निर्माण अर्थज्ञान सहित। कर्तृवाच्य एवं कर्मवाच्य का परिचय, वाक्यरचना, वाक्यरूपान्तरण एवं अनुवाद। कर्तृवाच्य का परिचय वाक्यरचना, वाक्यरूपान्तरण एवं अनुवाद।
Block-2: कृदन्त प्रत्यय [7HRS]
शतृ एवं शानच् प्रत्ययों से शब्दनिर्माण, वाक्यरचना और अनुवाद। क्त्वा, ल्यप्, तुमुन् प्रत्ययों से शब्दनिर्माण, वाक्यरचना और अनुवाद। क्त एवं क्तवतु प्रत्ययों से शब्दनिर्माण, वाक्यरचना और अनुवाद। तव्यत्, अनीयर् एवं यत् प्रत्ययों से शब्दनिर्माण, वाक्यरचना और अनुवाद।
Block-3: सन्धि एवं भाषाभ्यास [8HRS]
अच्, हल् एवं विसर्ग सन्धियों का ज्ञान एवं सन्धि विच्छेद का अभ्यास। भगवद्गीता के द्वितीय अध्याय के प्रथम 20 श्लोकों में कारक एवं क्रियापदों का अनुसन्धान एवं सस्वर श्लोकपाठ। संस्कृत से हिन्दी/अंग्रेजी में अनुवाद। संस्कृत में परस्पर वार्तालाप एवं मौखिक व्याख्यान का अभ्यास।
Block-4: भाषादक्षता [7HRS]
प्रथमदीक्षा के चतुर्थ, पंचम एवं षष्ठ अध्याय से वाक्यनिर्माण एवं अर्थज्ञान का अभ्यास।

Text Books

1. द्विवेदी कपिल देवः प्रारम्भिक रचनानुवाद कौमुदी, विश्वविद्यालय प्रकाशन, वाराणसी 2011

2. द्विवेदी कपिल देवः रचनानुवादकौमुदी, विश्वविद्यालय प्रकाशन, वाराणसी 2011

3. द्विवेदी कपिल देवः प्रौढरचनानुवाद कौमुदी, विश्वविद्यालय प्रकाशन, वाराणसी 2007

Books For References

1. प्रथमदीक्षा - राष्ट्रिय संस्कृत संस्थान, नई दिल्ली।

2. द्वितीय दीक्षा - राष्ट्रिय संस्कृत संस्थान, नई दिल्ली।

3. महर्षि दयानन्द सरस्वतीः वर्णोच्चार शिक्षा, रामलाल कपूर ट्रस्ट, सोनीपत हरियाणा।

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COURSE DETAILS – 6
SUBJECT NAME – FUNDAMENTALS OF COMPUTER APPLICATIONS
SUBJECT CODE – BAYSSE-306

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CREDIT: 3	CA: 25	SEE: 75	MM: 100
	BLOCK-01: INTRODUCTION TO COMPUTER		

UNIT-01	Introduction to computer system, uses, types
UNIT-02	Data Representation: Number systems and character representation, binary arithmetic Human Computer Interface: Types of software, operating system as user interface
UNIT-03	Utility programs Devices: Input and output devices (with connections and practical demo), keyboard, mouse, joystick, scanner, OCR, OMR, bar code reader, web camera, monitor, printer, plotter Memory: Primary, secondary, auxiliary memory, RAM, ROM, cache memory, hard disks, optical disks
	BLOCK-02: FUNCTIONS OF COMPUTER
UNIT-01	Computer Organisation and Architecture: C.P.U., registers, system bus, main memory unit, cache memory, Inside a computer, SMPS, Motherboard, Ports and Interfaces, expansion cards, ribbon cables, memory chips, processors
UNIT-02	Overview of Emerging Technologies: Bluetooth, cloud computing, big data, data mining, mobile computing and embedded systems
	BLOCK-03: APPLICATIONS OF COMPUTER
UNIT-01	Use of Computers in Education and Research: Data analysis, Heterogeneous storage, E-Library, Google Scholar, Domain specific packages such as SPSS, Mathematical etc.
	BLOCK-04: PRACTICAL
UNIT-01	MS Office i) Microsoft Word ii) Microsoft Excel iii) Microsoft PowerPoint

Reference Books:

- A. Goel, Computer Fundamentals, Pearson Education, 2010.
- P. Aksoy, L. DeNardis, Introduction to Information Technology, Cengage Learning, 2006
- P. K.Sinha, P. Sinha, Fundamentals of Computers, BPB Publishers, 2007

Practical:

- The practical assignment must include connecting parts of a computer and assembling it to an extent, media formatting and installation of some software.