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Additional Information :-

Innovative Courses and Sanskrit based courses including scientific and technical literature with combination of yoga.

M.Sc. Yoga Therapy and B.Sc. Yoga - These are the two programs designed and run by the University which are a combination of traditional texts related to Yoga Darshana, Sankhya Darshana, Upanishads, Samhitas, Bhagavad Gita, Ancient healing foundations of yoga and modern courses such as Anatomy & Physiology, Human biology, Foundation of yogic science, Modern management of health, Yoga therapy and Stress management.

The main objectives of these programs are to preserve and propagate the ancient spiritual science, the Patanjali Yoga Shastra, to develop human resources in the field of yoga and to generate awareness about health benefits of yoga in the urban and rural societies, to offer solutions to hazardous health problems faced in modern life style, to demonstrate Yoga as a positive health science through scientific method, to re-visit the ancient health science through modern approach and instrumentation.

The traditional texts of Yoga Philosophy, Fundamentals and Foundations of Hata Yoga (B.Sc.-Yoga, Sem-3&4, C-1&1, P-5&7), (M.Sc. – Yoga Therapy, Sem-1&2, Course 3&2, P-3&2) help the student to understand the basic concepts of Yoga, development of Yoga Darshana from ancient times, and the place of yoga among other darshanas. Texts like Sankhya Yoga, Yoga Vasistha and Bhagavad Gita (M.Sc. – Yoga Therapy, Sem-1, Course 2, P-2) impart knowledge about the yogic practical approaches towards human welfare and stress management.

Foundation of yogic science (B.Sc. - Yoga, Sem-1&2, C-2&1, P-2&3) Ancient healing foundations of yoga (M.Sc. – Yoga Therapy, Sem-2, C-1, P-1) Yoga & Life Style (B.Sc. - Yoga, Sem-4, C-2, P-8) make the student aware of aims, objectives and practice of traditional yoga system with special reference to Patanjali yoga Sutra, and also enables them to practically analyse mental perceptions and related causes, to design appropriate infrastructure for meditation and apply therapeutic principles of yoga. Basics and principles of yoga therapy (M.Sc. – Yoga Therapy, Sem-3, C-2, P-2) gives an understanding and ability to apply Indian knowledge of anatomy and physiology of body. Evidence Based Yoga Therapy (M.Sc. – Yoga Therapy, Sem-4, C-1, P-1) explains the yogic concept of disease and the remedial measures, importance of kriya yoga in balancing the neuro-endocrinal apparatus and helps to find out a scientific solution for geriatric health.

Modern Texts like Basic Human Anatomy and Physiology (B.Sc. - Yoga, Sem-2, C-2, P-4), Human Biology (M.Sc.- Yoga Therapy, Sem-2, C-4, paper 3) are the integral part of both the programs help in understanding the human body structure in a traditional way in the light of modern medical sciences. Yoga and Allied Sciences (B.Sc. - Yoga, Sem-3, C-2, P-6) (M.Sc.- Yoga Therapy, Sem-2, C-4, P-4) give the basic concepts of Ayurveda, Naturopathy and Jyotisha and also the relation of Yoga with these Sciences.

With the help of Modern management of health (M.Sc. – Yoga Therapy, Sem-3, C-1, P-1) one can independently take up the case studies, identify the cause of disease, design and offer appropriate yoga therapy, which is a non-pharmacological approach of yoga in healing diseases.

Methods of Teaching in Yoga (B.Sc. - Yoga, Sem-6, C-1, P-11) enables the students to understand various teaching and learning methods, tools and techniques in teaching Yoga, helps them in handling various age group people in yoga class, and also in preparing model lesson plans for different practices.

Methods of Research and Statistics (M.Sc. – Yoga Therapy, Sem-3, C-4, P-4) makes the students to understand the role and importance of research in yoga, to realise the need of different methodical observations for successful research in applied yoga, to take up, conduct and guide philosophic-literary or evidence based yoga research.

Both the yoga programs provide practicals in yogasanas, kriyas, yogic stretching, relaxation twists and inversion along with theory, which has a great impact on wellness of human beings. These practices enable the students to understand the bio-dynamics of yogic stretching, Relaxation techniques. They are also helpful in studying the attitude of patients, in conducting yogic training and therapy camps to any given group.

P.G. Diploma in Yoga Therapy and Stress Management - This is introduced as an innovative interdisciplinary program under the University Grants Commission. The program is aimed at disseminating the theoretical and practical knowledge of Patanjali's Yoga Shastra, their therapeutic values and relevance in maintenance of sound body and mind. The objectives of the program are to develop human resources specialized in Yoga therapy, to demonstrate Yoga as a positive health science, to re-visit the ancient health science through modern approach, to generate possible employment in the field of yoga, and to generate awareness in yoga among common people.

P.G. Diploma in Yoga Vijnan -The aim of yoga is to develop the human consciousness from lower level to higher level. For this purpose various yogic practices are offered at different levels to train the body and mind. This brings about positive changes and harmonious functioning in the body-mind complex. In yoga, there are several techniques to develop various facets of human personality. Today, Yoga is gaining world-wide popularity because of its spiritual values and also for its therapeutic application. Its practices are effectively used in the treatment of several psychosomatic disorders for which there is no effective treatment in modern medicine. With the growing demand for yoga all over the world, it has become essential to train people in the theory and practice of the system.

The purpose of the PG Diploma in Yoga Vijnana is to impart the knowledge in various techniques of Yoga, based on classical texts, with scientific orientation to graduates in order to enable them to mould their personality and to teach the same to the students in schools and colleges and to the interested public of all age levels. It is aimed to provide them a basic understanding of human anatomy, physiology and bio-chemistry so that they gain a proper perspective on yoga in the light of science; to enable them to gain enough fundamental skills to read and understand basic texts in yoga. It is also aimed to introduce the students to the fundamental principles of ayurveda, the Indian system of Health Sciences. By succeeding in this course the students shall be able to teach Yoga practices to the public on scientific lines and can also run training cum therapeutic centre on their own.

Masters in Ancient Indian Management Techniques (MAIMT) -This program covers Subjects like Ancient Indian Management Skills, Vedic thoughts on Environmental Awareness and Natural Resource Management, Personal Management in Indian Philosophic Systems and Upanishads, Personal Management Techniques in Yoga and Ayurveda, Management and organisational behaviour and Managerial Communication.

M.A. in Sanskrit - Sabdabodha Systems & Computational Linguistics -This is an interdisciplinary and newly emerging area of study introduced under the innovative program approved by UGC, A rare Interdisciplinary program, with a blend of Computer Science, Modern Linguistics and Sabdabodha Systems like Vyakarana, Nyaya and Mimamsa, an emerging area of research in Sanskrit and Natural language processing, and also a career oriented program providing scope for good placements. The program aims at unearthing the various linguistic techniques embedded in different shastras like Nyaya, Vyakarana and Mimamsa and applying them in the present-day translation technique scenario. Ever since its inception in 2004 (as an innovative program sanctioned by the UGC) the course has been running successfully and various Sandhi–splitting, Vrutti identifying, parsing tools etc., have been developed by students.

P.G. Diploma in Comparative Aesthetics in Global Perspectives – P.G. Diploma in Comparative Aesthetics in Global Perspectives has enabled the students of Sanskrit poetics to understand and appreciate the concept of aesthetics as understood by the West. It has also made them recognize similarities in both systems and also perceive the reasons for differences. It has equipped them for future research in the globally relevant area. Masters in Ancient Indian Management Techniques has, at its basis, a well-balanced syllabus of ancient as well as modern management techniques. This course has fulfilled its prime objective of proving the relevance of ancient Indian Knowledge systems to the needs of contemporary world. By improving on the abilities and skills that are to be possessed by the managerial trainees, by basing the training in ethical, moral yet realistic ways the program has been an extra edge to the students seeking management training. This course creates graduates of high calibre to face global managerial requirement but rooted in ancient Indian wisdom. The Post Graduate program in Sabdabodha Systems and Computational Linguistics aims at unearthing the various linguistic techniques embedded in various shastras like Nyaya, Vyakarana and Mimamsa and applying them in the present-day translation technique scenario. Ever since its inception in 2004 (as an innovative program sanctioned by the UGC) the course has been running successfully and various Sandhi – splitting, Vrutta identifying, parsing tools etc., have been developed by students. The course aims at reducing the language barrier amongst Indian languages and considerable progress has taken place in this direction.

P.G. Diploma in Web Technology - In this program, the students are being trained as Web developers. The concepts of web design and maintenance of websites are taught. They will be well exposed to technical aspects with special practical emphasis on Indian Languages in general and Sanskrit in particular. This program enables the students to write code for the website, using programming languages such as HTML, to work with graphics and other designers to determine the website's layout, to integrate GVC graphics, audio, and video into the website and to monitor website traffic.

Sanskrit based courses including scientific and technical literature with a combination of Ancient and Modern Mathematics and Computer Science

B.Sc. Computer Science and M.Sc. Computer Science and Sanskrit Language Technologies are the programs designed which are blend of modern and traditional courses. The syllabus was framed by following the National Education Policy (NEP) guidelines.

Traditional course in Sanskrit Grammar (M.Sc. – Computer Science and Sanskrit Language Technologies, Sem-1, C-4) is intended to introduce the basics of Sanskrit Grammar such as various sandhi rules and to explain formation of Nouns and Nominal compounds, that is required for Natural Language Processing and Machine Translation.

Natural Language Processing (B.A./Shastri- Sem-5, C-4) is designed to enable the student to build computer systems that are able to analyse natural languages like Sanskrit, Telugu, English, etc., and that generate their outputs in a natural language, by following the rules of Paninian Grammar.

The courses, Language Speech Processing I & II (M.Sc. – Computer Science and Sanskrit Language Technologies, Sem-1&2, C-5) make the student understand the Language structure and Morphology, to build Speech recognition tools for Sanskrit and other Indian Languages.

The modern courses like Computer Organization Object Oriented Programming with Java, Computer Networks, Software Engineering, Language Processing and Python, Artificial Intelligence, Data Warehousing and Data Mining, Corpus Linguistics etc., at UG and PG levels enable the student to learn the techniques essential in using suitable hardware and software tools. The knowledge of programming languages help them to create programs in C, Java, PERL and Python languages, that are suitable for natural language processing. By understanding Artificial Intelligence, the student can create Technology that allows computers and machines to function in an intelligent manner.

Sanskrit based courses with combination of Ancient and Modern Mathematics

Mathematics is introduced as one of the elective courses in B.Sc. Computer Science, to acquire moderate understanding of concepts & principles of modern and ancient Mathematics.

The main objectives of this elective course are to impart the mathematical knowledge to Sanskrit students, to explore Ancient Indian Mathematical knowledge, and to pursue research in modern as well as Ancient Indian Mathematics and Astronomy, to understand the Indian contribution to the field. Hence the course is designed with the modern concepts of Mathematics blended with ancient concepts.

The modern concepts, such as Differential Equations, Solid Geometry, Abstract Algebra, Real Analysis, (B.Sc. – Computer Science Sem-1to4, C-1to4) Linear Algebra, Numerical Analysis-I&II and Vector Calculus, (B.Sc. – Computer Science Sem-5&6, C-5to8) enable the students to gauge the hypothesis, theories, techniques and proofs provisionally, to utilize mathematics to solve theoretical and applied problems by critical understanding, analysis and synthesis, and to identify applications of mathematics in other disciplines and in the real-world, leading to enhancement of career prospects in a plethora of fields and research.

The ancient texts such as Leelavathi, Bijaganita of Bhaskaracharya-II give a clear picture of Zero and infinity. With the help of Aryabhatiya Numeral system, one can understand the Numbers and Numerals in Sanskrit works and also understand the concept of Shloka, nearly Accurate value of π , The study of Sulbha-sutra Theorem (Pythagoras Theorem) and its Applications, such as Theorem from Manava sulbha–sutra, Theorem Square on the diagonal of a square from Baudhayana sulbha-sutra, Surd and their Approximate Values from Katyayana sulbha sutra, Values of Square root of 2 from Baudhayana sulbha -sutra., Ratio of circumference of a circle to its diameter from sulbha-sutra, enable the Sanskrit students learn modern mathematical concepts without any difficulty.

Courses in emerging area

Research and Publication Ethics (RPE) - As per the recommendations of UGC a course on Research and Publication Ethics (RPE) [Ph.D. (Education) Course work, C-1 – Part-B & Ph.D. Course work, C-3 – Part-A] is introduced in the course work of Research program. The content is focussed on basics of philosophy of science and ethics, research integrity, publication ethics. The objectives of the course are to create awareness about publication ethics and publication misconducts. The course enables the research scholars to understand the Philosophy and Ethics of Research, the Scientific Conduct in Research, the Publication Ethics, The Open Access Publishing, Publication Misconduct, Databases and Research Metrics and plagiarism tools.

Diploma program in Translation- The program has been prepared keeping in view the need for developing trained translators to undertake the translation process efficiently in socio-

cultural and professional areas at global level in English/Hindi/Telugu languages. The program aims at enabling the students to translate from Sanskrit to English/Hindi/Telugu vice-versa. The objectives of the program are to train students in acquiring ability to translate from Sanskrit to other language and vice versa, to enable the students to acquire comprehensive knowledge of Translation methods and Techniques, to produce graduates in the field of Translation Studies and Techniques to meet the expectations of the employability wherever it is possible, to pioneer in the field of cultural journalism by meeting the demand of the field through the experts' generation trained in university in area of translating the ancient Sanskrit Vedic and Classical Texts.

P.G. Diploma in Pourohitya and Diploma in Jyothisha & Vastu –These are the two programs introduced for the interested students. The main objectives of these programs are to enable the students in deciding muhurthams for different pujas, yagas, vrats, samskaras and occasions, such as gruharambha and gruhapravesha, to perform pujas and rituals for different vratas, samskaras and occasions and to acquire skill in drawing plans of temples and houses as per vastu in different sampradayas.

In this way the courses and programs are designed in such an innovative way that traditional subjects and modern subjects go hand in hand.