

CONSORTIUM FOR EDUCATIONAL COMMUNICATION

| S.No | Courses Title uploaded on the SWAYAM | PI/CC Name and Institution | Host University/Institute | No of Modules completed in 4 Quadrants | Start date of next run | End date of next run | Course Objective |
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| 1 | Making of Modern India | Prof. Bhaskar Chakraborty, Centenary Professor of History and IR | St. Xavier's College, (Autonomous), Kolkata. | 50 | 7th aug 2017 | 31st oct 2017 | <ul style="list-style-type: none"> • The course will ensure a thorough grounding to the emergence of modern Indian politics and society. Students completing the course will be able to appreciate the nuances of the historical process through which modern Indian politics and society has emerged. • The course seeks to equip the students with the analytical skill to relate contemporary developments to their historical antecedents. • The course will encourage the students to develop skills in historical thinking and analysis, with particular reference to modern India. The skill to think like a historian will enable the students to use it with profit in their chosen professions and careers. ☒ |

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| 2 | Penning for Frames | Subha Das Mollick, Media Techer and Filmmaker | St. Xavier's College, (Autonomous), Kolkata. | 33 | 24th July 2017 | 20th nov 2017 | <p>The Penning for Frames course will orient the students to the aesthetic requirements of effective audio visual communication.</p> <p>After completing this course, students will have the ability to visualize fiction and non-fiction films, develop their structures, write the treatments and develop screenplays for fiction films and audio visual scripts for non-fiction films.</p> <p>The course will equip the students to meet the industry demands for script writers.</p> <p>The final test for a script writer is in the making of a film. Behind every good film there is a good script. Those students who take the initiative to convert their scripts into films, will be</p> |
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| 3 | Organic Chemistry-1 | Dr. Ravi Bhushan(Professor), ☐ | IIT Roorkee | 25 | 24th oct 2017 | 19th Dec 2017 | <p>After successfully completing this course, students will be able to understand and comprehend:</p> <ul style="list-style-type: none"> • Fundamentals of Organic Chemistry • Stereochemistry of organic compounds • Chemistry of Aliphatic Hydrocarbons such as Alkanes, Alkenes, Alkynes in terms of their preparation, physical properties and chemical reactions. • This course will also be beneficial for those students who have completed their BSc and are preparing for certain competitive examinations. The advantage of the course may be taken by those students also who are pursuing Master's degree in Chemistry and intend to brush up their basics. |
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| 4 | Atomic structure and chemical bonding-an introductory course | Dr. Sanjiv Kumar | IGNOU, New Delhi | 21 | 5th sept 2017 | 14th oct 2017 | <p>Expected learning outcomes</p> <p>After going through the video lectures, the supplementary learning materials, participating in discussions and solving assignments, the learner should be able to</p> <ul style="list-style-type: none"> • Outline the basic premise of Classical mechanics, and demonstrate its inadequacy to deal with microscopic systems, • Argue for the need of a new theory that explains the experimental observations on experiments with microscopic systems, • Explain the concept of quantization and its success • Describe Bohr's model of atom and discuss its merits and inadequacies, • State and explain the concept of wave-particle duality and Heisenberg's Uncertainty Principle, |
| 5 | Indian Culture and Art | Dr. Saroj Chaman, Prof (retd.) | Punjabi University, Patiala | 20 | 3rd Oct 2017 | 5th Dec 2017 | <p>☐ To acquaint the students with the sources of Indian History and its relevance to Culture and Art.</p> <p>☐ To throw light on the major Religious and Sufi Movements.</p> <p>☐ To trace the contribution of different rulers in the development of Indian Arts.</p> <p>☐ To discuss the features of different Art Forms.</p> |

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| 6 | Data Structure And File Processing | Dr. Gurpreet Singh Lehal, Professor | Punjabi University, Patiala | 23 | 3rd Oct 2017 | 5th Dec 2017 | This course will help the viewer in understanding the basics of Data structure. The topics dealt upon in this course would be stacks, queues, Sorting algorithms, Searching, Linked Lists and trees. |
| 7 | Environmental Studies -I | Dr. Tushar Banerjee, Assistant Professor | DAVV, Indore | 38 | 24th July 2017 | 10th Oct 2017 | The objective of this course is to provide knowledge about multidisciplinary nature of environment, various sources of natural energy, ecosystem etc. Students will be evaluated upon achievement in terms of academic excellence. Students will also be able to understand about the various environmental issues and problem. |
| 8 | Genetics | Dr. M. A. Shah, Associate Professor | University of Kashmir | 44 | 15th July 2017 | 8th Oct 2017 | The objectives of this course are to give the target students/audience an understanding of: <ul style="list-style-type: none"> ☐ Fundamentals of the genetic basis of life and importance of DNA as the ideal genetic material ☐ Genetic inheritance and gene interactions in Mendelian and post-Mendelian perspective ☐ Organization and functioning of the extra-nuclear genome and extrachromosomal inheritance ☐ Linkage, crossing over and chromosome mapping ☐ |

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| 9 | Physical Geography-ii (climatology & oceanography) | Dr. S Arun Das Assistant | University of Mysore | 31 | 7th August 2017 | 16th October 2017 | Define the overall objectives of the complete course including the expected learning outcome of the course. |
| 10 | Physical Geography-i (elements of geomorphology) | Prof. B Chandrashekhara | University of Mysore | 24 | 7th August 2017 | 2nd October 2017 | To have better understanding about an over view of physical Geography and elements of Geomorphology. |
| 11 | Archeological Anthropology | Dr P. Binodini Devi, Associate Professor | Manipur University Imphal | 50 | 10th july 2017 | 7th oct 2017 | After studying this course, the students/learners are able to: <ul style="list-style-type: none"> • Explain what archaeological anthropology is. • Understand how it relates with other disciplines. Describe the various methods of studying archaeological anthropology. |

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| 12 | Glimpses Of Indian Social Legislation And Social Welfare- | Dr. B. Geetha, Assistant Professor, | Madurai Kamaraj University | 27 | 2nd august 2017 | 6th oct 2017 | <ul style="list-style-type: none"> • To create awareness on the Constitution of India and its social legislation • To have better understanding about the society in the backdrop of Indian Constitution and social legislation and thus help the individual to be a good citizen to the society. • This course will provide the opportunity to know New Approaches in social legislation in the context of environment, education, human rights etc are dealt which are current issues in the societal scenario. • The course also throws open the social welfare schemes available for the vulnerable sector of the society. ☐ |
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| 13 | Population Studies | Dr. B. Geetha, Assistant Professor, | Madurai Kamaraj University | 23 | 2nd august 2017 | 6th oct 2017 | <ul style="list-style-type: none"> • Basic idea on the population is provided to understand the society and the relationship between population growth and the development of the country. • Population studies, one of the specializations of sociology, being a multidisciplinary course attracts the interest of all the social sciences and sometimes biological sciences too and thus overview knowledge on it helps the student in furthering their specialization. • To offer the basis of population studies and covers the issues like sources of population data, composition of population data, theories on population, determinants of population, population policy and need for population education. |
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| 14 | PETROLOGY | Dr. Harel Thomas, Associate Professor | Dr. Harisingh Gaur Vishwavidyala , Sagar | 50 | 24th july 2017 | 25th nov 2017 | <p>This course is a basic to advance introduction for the undergraduate students in metamorphic petrology. Course deals with the naturally occurring rocks in field as well as laboratory analysis data that provide sufficient information how they occur in the nature. It gives idea of modern petrological theories which are widely accepted for their origin. The course emphasis the metamorphic petrology which cover the classification of metamorphic rocks, textures and structures, naming of metamorphic rocks, recognition of metamorphic facies and zones. Ploting and importance of different diagram like ACF, AKF and other graphical representation for metamorphic mineral assemblages including facies of low, medium and high pressure metamorphism along</p> |
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| 15 | Modern British Literature | Prof. Sumita Roy, Head | EFLU, Hyderabad | 51 | 2nd august 2017 | 6th oct 2017 | <p>Following are the main objectives of the course: The course is useful for students in Undergraduate and Postgraduate Colleges of India. It covers the canonical writers whose works are frequently prescribed on the syllabuses of these classes. The lessons are designed to form an independent unit by themselves in a manner that is easy and accessible.</p> <p>The lessons aim to introduce some major writers to the learners with the ultimate goal of stimulating interest so as to reach a critical mass that will lead them to an independent appreciation of literature. The lessons provide material to pass the examinations but are also designed to make the learners go further beyond the mere syllabus. ☐</p> |
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| 17 | Health Psychology | Dr. P. Swathi, Assistant Professor | EFLU Hyderabad | 51 | 10th august 2017 | 10th Nov 2017 | <p>Following are the main objectives of the course:</p> <ul style="list-style-type: none"> • Develops an understanding and appreciation of the complex interplay between one's physical a variety of biological, psychological, and social factors. • Helps students to learn how psychological research methods, theories, and principles can be applied to enhance biomedical approaches for promoting health and treating illness. • Helps students learn the nature of the stress response and its impact in the etiology and course of many health problems. • Develop skills for designing programs to improve one's own and others' personal health habits and lifestyles. • Determine how psychological and medical methods for relieving pain |
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| 18 | Foundation of Mathematical Statistics | Dr. Aneesh Kumar.K, (Asso. Prof.) | University of Calicut | 27 | 25th july 2017 | 21st oct 2017 | <p>To develop a strong foundation for the concepts coming under Mathematical Statistics.</p> <p>Expected Learning Outcomes: Students,</p> <ol style="list-style-type: none"> 1. Familiarize with the concept of data and its various representations. 2. Learn various characteristics of data 3. Learn the concepts of correlation and regression 4. Study the analysis of the relation between two dependent variables 5. Understand the concept of probability and able to solve problems 6. Study the concept of random variables 7. Study some important probability distributions and able to solve related real life problems. |
| 19 | Cell Biology | Dr. R.J. Verma Prof. & Head, ☐ | Gujarat University, Ahmedabad | 31 | 17th july 2017 | 7th oct 2017 | <p>The students will gain overall knowledge of:</p> <ol style="list-style-type: none"> (A) Structure and function of Cell; (B) Coordination between different cell- cell, cell matrix interactions; (C) Understanding of Pathology of various disease conditions and (D) Understanding the effectiveness of the treatment modalities |

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| 20 | Environmental Studies -2 | Dr. Tushar Banerjee, Assistant Professor | DAVV, Indore | 38 | 3rd Oct 2017 | 5th Dec 2017 | The objective of this course is to provide knowledge about the social issues and the environment. Students will be evaluated upon achievement in terms of academic excellence. Students will also be able to understand about the various problems associated with the human population and the environment. |
| 21 | Developmental Biology | Dr. N.K.Jain, Professor Head, Dept.of Life Science | Gujarat University, Ahmedabad | 23 | 17th July 2017 | 2nd Sept 2017 | The structure of the present core course on developmental biology has been designed with the perspective of achieving following major objectives : <ul style="list-style-type: none"> • To provide a glimpse of scope and historical background of developmental biology to the students. • To impart knowledge regarding basic concepts of differentiation and growth, differential gene expression as well as cytoplasmic determinants to the students. • To develop detailed understanding of essential events of developmental biology through proper explanation of gametogenesis fertilization, blastula formation, gastrulation as well as embryology induction as part of early embryonic development. • To adequately train the students |

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| 22 | Digital Electronics and Micro Processor | Dr.V.JEYALAK SHMI, Professor, | Anna University, Chennai | 25 | 3rd Oct 2017 | 5th Dec 2017 | <ul style="list-style-type: none"> • The main objective of this course is to cover the basics of digital logic circuits and design. • Through the basic understanding of Boolean Algebra and Number systems • The main objective of this course is to basic functions and need of microprocessor • Through they get basic understanding of interfacing and programming • Knowledge and application of the fundamentals of Assembly language • It introduces the student to mini projects based on microprocessor applications • They can calculate the program execution time and design any delay program |
| 23 | Operating System | Dr.A.Kannan Professor at Anna University 1. Dr.L.Sairamesh, Teaching Assistant ,Contact no. 9941424345 email id : sairamesh.ist@gmail.com | Anna University, Chennai | 26 | 3rd Oct 2017 | 5th Dec 2017 | To learn the Operating System Basics. To Study the process management of Operating system. To gain knowledge in storage management and I/O systems of Operating Systems. To Explore the case studies with various OS |

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| 24 | Data Structure | 2. Mr.V.Pandiyarajan, Teaching Assistant, contact no. : 09894536368 email id : vpandiyarajan@gmail.com | Anna University, Chennai | 40 | 3rd Oct 2017 | 26th dec 2017 | This course will help the viewer in understanding the basics of Data structure. The topics dealt upon in this course would be stacks, queues, Sorting algorithms, Searching, Linked Lists and trees. |
| 25 | Software Engineering | | Anna University, Chennai | 25 | 3rd Oct 2017 | 5th Dec 2017 | to provide information about wider engineering issues that form the background to develop complex. Evolving systems. To Plan a SE Process to account for quality issues and non-functional requirements. To Employ a selection of concepts and techniques to complete a small scale analysis and design in mini projects. To impart knowledge to translate requirement specifications into a design and then realize that design practically all using an appropriate software engineering methodology. To provide basic knowledge about software project management. |

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| 26 | Database Management System | | Anna University, Chennai | 40 | 3rd Oct 2017 | 26th dec 2017 | To learn the fundamentals of Data Model and To conceptualize and depict a database system using ER diagram -To make a study of SQL and relational database design. To understand the internet |
| 27 | Hindi Bhasha Sanrachna | Dr. Shobha Chaturvedi, Assistant Professor | DAVV, Indore | 45 | 24th july 2017 | 4th oct 2017 | ekr`Hkk`kk ds ek;/e ls v/;;u fufoZokn :i ls Js;Ldj ,oa ykHknk;h gS] bls IHkh f`k{kkfonksa us ekuk gSA bls fo kFkZ;ksa dh l`tu`khyrk dks izksRlkgu rks feyrk gh gS] lkFk gh Kku ds xgu xaHkhj fopkjksa dks le>us esa vklkuh gksrh gSA bl ikB~; lkexzh ls xqtjrs gq, fo kFkhZ vuk;kl gh fgUnh Hkk`kk vkSj mlds lEizs`k.k dkS`ky dks Lok;Rr dj ldsxk vkSj vius lekt] bfrgkl] laLd`fr vkSj izd`fr vkfn ds izfr Hkh LoLFk ,oa jkxkRed n`f`V fodflr djus dh fn`kk esa izo`Rr gks ldsxkA |
| 28 | Prachin Hindi Kavya | Dr. Surendra Yadav, Retired Professor | DAVV, Indore | 46 | 24th july 2017 | 11th oct 2017 | bl ikB~; fo`k; ds ek;/e ls fo kFkhZ izkphu fgUnh dkO; ds izeq[k dfo;ksa tSlS& lwj] rqylh] dchj] tk;lh] ehjkckbZ] fcgkj] ?kukuan] fo kifr] nso vkfn dfo;ksa ds thou ifjp; dks tku ldsxk ,oa mudh izeq[k jpukvksa dh O;k;kRed ,oa vkykspukRed leh{kk dj ldsxkA |

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| 29 | Basics Of Photography | Lalit Ingle, Lecturer EMRC, DAVV, | DAVV, Indore | 35 | 24th july 2017 | 10th oct 2017 | The objective of this course is to pursue basic knowledge of photographic process, including the use and roles of professional services. The recognition of strong image composition, technical operation, content and the essential knowledge for completion of a final image portfolio will also serve as primary objectives, along with the ability to convey critical knowledge of the photographic processes. Students will be evaluated upon achievement of technical and aesthetic excellence. Individual creativity, visual problem solving and precise craftsmanship will be emphasized. Students will also be able to demonstrate an awareness of contemporary aesthetic and ethical considerations in digital photography. |
| 30 | Trends and development in Modern Educational Practices | Dr. A. Hameed | University of Calicut | 50 | 17th july 2017 | 5th nov 2017 | <ul style="list-style-type: none"> To develop awareness among student-teachers regarding the importance and need for incorporating modern trends and developments in the educational practice. |
| 31 | Mulberry and silkworm crop protection | Dr. R.S. Umakanth Assistant Professor | University of Mysore | 40 | 1st Aug 2017 | 23rd oct 2017 | Define the overall objectives of the complete course including the expected learning outcome of the course. |