

SRI BALAJI VIDYAPEETH

(ACCREDITED WITH 'A' GRADE IN THE FIRST CYCLE BY NAAC)

Pillaiyarkuppam, Pondicherry - 607 402



Value Added Course
Prospectus
2018-2020

VICE-CHANCELLOR'S MESSAGE

Welcome to SBV & your future

The millennium has ushered in challenges which will have a profound impact on the role of private universities. Professional competence will be highly sought after in India and around the globe. The challenge - shared by all Universities - is to bestow the requisite knowledge and skills, and cultivate proper etiquette and attitude to produce top-notch professionals who will be valued both for their professional competence and their inherent ability to solve problems.

Sri Balaji Vidyapeeth, Deemed to be University and accredited by NAAC with 'A' Grade is dedicated to its mission in order to nurture healthcare professionals in Medicine, Dentistry, Nursing and Allied Health Sciences, who would contribute and strive ceaselessly towards caring for the comfort of the sick. The constituent colleges of SBV are already noted for the excellence in various avenues including teaching, research, and service to the community, especially those who are marginalised and underserved. SBV is endowed with committed, dedicated and outstanding faculty- a healthy mix of the young & veterans and excellent infrastructure. Our challenge for the future is to capitalize on this good start and establish ourselves firmly among the comity of leading Universities.

The reputation of any institution is essentially based on the quality of its output; the management and the academic staff do realise this and I promise that they will do their best to train and educate you well. You, the research scholars who have gained entry into the portals of SBV this year realise your ambition and must perform well with dedication and diligence and emerge as competent research professionals and make your parents and educators

WITH LOADS OF GOOD WISHES,

PROF. SUBHASH CHANDRA PARIJA, MBBS, MD, PhD, DSc, FRCPath, FAMS, FICPath, FABMS, FICAI, FISCD, FIAVP, FIATP and FIMS
Hon'ble Vice Chancellor, Sri Balaji Vidyapeeth



INTRODUCING SRI BALAJI VIDYAPEETH

Young, Modern & Marching Ahead

- Sri Balaji Vidyapeeth (SBV) is a young deemed University, proud of its modernity, yet firmly grounded in rich educational heritage.
- SBV aims to excel in academic and clinical medicine; research and training; nurturing passion and enthusiasm into achievement and converting theoretical knowledge into evidence based practice and research.
- SBV was granted 'Deemed University' status by the University Grants Commission (UGC) under section 3 of the UGC Act of 1956 in 2008, in recognition of its outstanding quality of providing education, potential for excellence and obtained NAAC "A" Grade in 2015, with CGPA of 3.11 on 4 point scale.
- SBV has been placed in the top 100 for three consecutive years 2016, 2017 & 2018 at the National Institutional Ranking Framework (NIRF) and is in the top 25 among the Medical colleges through its flagship institute, namely Mahatma Gandhi Medical College & Research Institute.
- SBV(DU) thus enjoys complete autonomy to develop and implement innovative curriculum and academic programs and to design its own education process that is responsive and tailored to the evolving needs and changes of health sciences.
- The Deemed University's constituent colleges and courses are all duly accredited and recognised by the respective statutory bodies such as the Medical Council of India, Dental Council of India and the Indian Nursing Council. Graduates of SBV(DU) are eligible to register with any state council or pursue further education in any part of India.
- SBV(DU) ensures that its programs and courses are recognised internationally, by registering under appropriate provisions of various statutory and registration authorities around the world to enable its graduates the right to qualify for practice in any nation, including appearing for USMLE, (USA) PLAB, MRCP/MRCS/etc (UK), MCCQE (Canada), AMC (Australia), CGFNS/NCLEX (Nursing, USA) etc.
- SBV(DU) is a research oriented university and the establishment of state-of-the-art Central Interdisciplinary Research Facility pledges considerable resources and investment for Biomedical Research.
- SBV's research output has been consistently high in quality and impact, as evident from its rapidly growing research publication record that inspires our students, a fact attested by the region-wise lead position in number of ICMR sponsored STS research projects (Short Term Studentship) undertaken and ably accomplished by our undergraduate medical and dental students.
- SBV caters to the needs of the patients in the form of alternate medicine. The presence of Yoga and Music Therapy is an innovative move to step forward from Illness to Wellness and treating the patients through complementary medicine. MoU signed by SBV for a collaborative doctoral program in music therapy with the IMC University of Applied Sciences, Krems, Austria and with Kaivalyadhama Yoga Institute for Yoga research are noteworthy milestones and bear ample testimony.
- The Centre of Health Professions Education brings together all health professionals to achieve academic excellence through training and research in pedagogical sciences, which saw SBV signing a long term partnership with Partners Medical International, USA.
- Every year is a year of challenges, accomplishments as we attain our targets, setting newer goals and constantly striving to renew our commitment for better medical training, scientific research and clinical practice.
- SBV is governed by an enlightened collegium of eminent scholars, clinicians and scientists, headed ably by our visionary Chairman and Chancellor, Shri. M. K. Rajagopalan; Vice Chancellor Prof. SC. Parija, a well recognised medical educationist; Renowned teacher, Prof. N. Ananthkrishnan, Dean of Faculty & Allied Health Sciences; Prof. M. Ravishankar, Dean, Faculty of Medicine, providing leadership and stewardship towards excellence.

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Name of the course	<i>Certificate course on e- Portfolio Training and Management</i>
Course code	MVAC19-02
Course offered by	Mahatma Gandhi Medical College & Research Institute
Duration and Frequency	3 days & once a year (24 hrs lecture and 16 hrs self-directed learning)
Intended Audience	Students of medical institutions (both undergraduates and postgraduates)
Intended Learning Outcomes	<ul style="list-style-type: none"> • Improve the skills and knowledge in e-portfolio training and management • Find closer links between assessment and learning by improving learning outcomes using assessment and providing feedback • Enhance their knowledge in the assessment of areas that are difficult to assess by traditional methods in a wide range of • clinical contexts which include attitudes, personal attributes, reflection and professionalism • Enhance job opportunities as electronic platform for portfolio is the need of future

Syllabus

Module 1: Understanding e-portfolios

Module 2: Set the e-portfolio purpose/s

Module 3: Outline an e-portfolio Strategy

Module 4: Design an e-portfolio ecosystem

Module 5: Evaluate the e-portfolio solution

Module 6: e-portfolio: From Standalone to Integrated Initiatives

Module 7: e-portfolio: From Programmatic to Systemic Change

Assessment & Assignment: Two assignment based on the modules will be given to each candidate and will be evaluated terminally based on the submission of his/her report. Each candidate working under close guidance of a faculty advisor, will develop and work on a project based on a e-portfolio creation. Both the assignment and e-portfolio creation to 16 hours of self-directed learning. Assignment and project work submission are mandatory for completion of the course

Certificate: Participants will be evaluated through a MCQ based examination at the end of the course. A minimum of 80% attendance and 75% marks will be required for award of online certificate.

Formative Evaluation	
Component	Weightage
Assignment marks	40
e-Portfolio creation (Project work)	30
Test marks- MCQs	30
Total	100
Pass requirements:	75

Feedback: Online feedback will be obtained at the end of the course.

Course Fee: Nil

Name of the course	<i>Certificate course on disaster preparedness in hospitals</i>
Course code	SVAC19-01
Course offered by	Mahatma Gandhi Medical College & Research Institute
Duration and Frequency	3 days
Intended Audience	<ul style="list-style-type: none"> • Healthcare professionals involved in disaster prevention, mitigation and management • Health facility administrators (Disaster Management Committee Members), • Healthcare Facility Managers, Senior Nursing Personnel who are likely to organize disaster relief • Public Health Specialists & Doctors (Physicians I ER Physicians I Surgeons I Orthopedicians • Eligibility: MBBS, MD I MS or MBA I MHA/ MPH & B.Sc IM.Sc/ Ph.D Nursing
Intended Learning Outcomes	<ul style="list-style-type: none"> • Prepare an outline of a hospital disaster plan • Conduct a vulnerability assessment of a hospital • Develop a disaster management plan for a hospital • Provide a disaster response

Syllabus

DAY 1

- Course Introduction
- Disaster Risk Management
- DM Structure in India
- Disaster Epidemiology and Pattern of Injury
- Structural Components
- Role of Private Medical Institutions - Pre, During & Post Disaster
- Functional Collapse of Hospital
- Epidemics and Emerging Infections
- Mass Casualty Incident (MCI)
- Mass Gathering Medical Care
- Principles of Disasters Medicine

DAY2

- Pre-Hospital Care
- Triage
- Hospital Incident Command System (HICS)

- Hospital Preparedness Planning
- Hospital Internal Disaster
- Onsite-Medical Care

DAY3

- Disaster Risk Communication
- Mass Fatality Management
- Video: Communication
- Return to Normal

Assessment & Assignment: *The final exam consists of two parts: Pre & Post Test.*

Certificate: *Certificate will be provided for students with >80% attendance and Pass percentage of 50%*

Feedback: *Online feedback will be obtained at the end of the course.*

Course Fee: *Nil*

Name of the course	<i>Certificate Course in Bio-Ethics On Human Research</i>
Course code	SVAC19-02
Course offered by	CIDRF (SBV)
Duration and Frequency	3 days / Year (8.30am-5.00pm) 2 Sessions per year
Intended Audience	Members of the ethics committee, Faculty who want to become members of the ethics committee, Hospital /health care administrators, Clinician, Faculty members, Biomedical Scientists who are interested in Clinical Research.
Intended Learning Outcomes	<ul style="list-style-type: none"> • To understand current ethical and regulatory Prerequisites for directing clinical research in Medical Institutes In India and other countries. • To be aware of the latest national ethical guidelines for biomedical and health research involving participants by ICMR. • To enable the delegates to understand that by seeking compliance to Ethics they can give the public an assurance that the rights, safety and well-being of human participants are well protected and the data from the study results are incredible and accurate. • To understand the principles of Bioethics, roles and responsibilities of various stake holders involved in a clinical and biomedical research involving human participants.

Syllabus

Day 1

- General Principles of Ethics in Human research and Codes of ethics
- ICH and ICMR 2017 Guideline-Overview
- Composition, Roles, Responsibilities and Functioning of EC
- Reviewing of Research Proposal by EC
- Risk, Categorization, Risk and Benefit Assessment of EC
- Privacy and Confidentiality.

Day 2

- Vulnerable population in Biomedical Research.
- Informed Consent Documents.
- New drugs, Rules and Ethical Issues in clinical trial
- Regulatory framework for conduct of Clinical trial.
- SAE Reporting and monitoring
- Compensation for participants and Research Related Injury

Day 3

- Human Genetics Testing and Research
- Clinical Trial with Stem Cells
- Research during Humanitarian Emergencies and Disaster
- Biological material and Bio-banking
- Publication Ethics.

Assessment & Assignment: *The final exam consists of two parts: Pre & Post Test.*

Certificate: *Certificate will be provided for students with >80% attendance.*

Feedback: *Online feedback will be obtained at the end of the course.*

Course Fee: *Rs.2000 /-*

Name of the course	<i>Certificate course in Lactation Counseling & Breastfeeding management</i>
Course code	SVAC19-03
Course offered by	Mahatma Gandhi Medical College & Research Institute
Duration and Frequency	3 days ,Bi - Annualy (9.00am- 4.00pm)
Intended Audience	Candidates who have completed Diploma in nursing / B.Sc. Nursing / M.Sc. Nursing with NCI recognised institutions and Registered with State Nursing Council
Intended Learning Outcomes	<ul style="list-style-type: none"> • To introduce the learner to the field of infant feeding practices more specifically to breastfeeding. • To provide learners with experiences in the classroom and in the clinical areas that result in development of basic competencies required for lactation counseling. • To provide the learner with competencies that are prerequisite to Nurses involved in Maternal and Child health care which is an additional qualification in their career. • To provide learners who have completed the course with the opportunities to update their skills.

Syllabus

Theory

- Introduction to Breastfeeding & Lactation Counselling
- Breastfeeding- A natural Process
- IYCF Optimal feeding practices
- Breast Milk Production & Anatomy & Physiology
- Early initiation of Breastfeeding and Breast crawl
- Breast examination
- Breastfeeding Positioning
- Essential newborns care & Counselling skills
- Communication & inter personal skills
- Communication & inter personal skills
- New born examination
- Re Lactation
- Expression of Breast milk(EBM)
- EBM(Expression of Breast milk)
- Breast conditions
- Breastfeeding in special situation
- Feeding in cleft palate babies
- Feeding during baby illness and recovery
- Nutrition of Lactating mothers

- Fertility issues while Breastfeeding
- Feeding issues in LBW, Pre term and KMC
- Building confidence and giving support
- Growth charts and growth monitoring
- Use of various aids for Breastfeeding Counselling

Practical

- Breast examination
- Newborn examination
- Observing a breastfeeding session
- Application of LATCH score
- Listening and learning exercises
- Building confidence and giving support to mothers
- Assessment of growth
- Growth monitoring with growth charts

Assessment & Assignment: *The final exam consists of two parts: skills and written exam.*

Certificate: *Learner will achieve a minimum of 80% on written exam.*

Feedback: *Online feedback will be obtained with Google forms.*

Course Fee: *Nil*

Name of the course	<i>Certified Course on Health Care Intellectual Property Right-A Foundation course</i>
Course code	SVAC19-04
Course offered by	Mahatma Gandhi Medical College & Research Institute
Duration and Frequency	2 Days (8.00am - 5.00pm)
Intended Audience	<ul style="list-style-type: none"> • MBBS/MD/MS , • BDS/MDS , • BSC/MS Nursing, • Allied Health Sciences
Intended Learning Outcomes	<ul style="list-style-type: none"> • The Course aims to provide an in-depth knowledge of various IPR prospects and process available for protect and promote health care related IPR activity. • The Student will be able to gain Knowledge on Intellectual Property Rights works in India • The Student will be able to know able important of Health Care related IPR process and important

Syllabus

Theory

- Over View Of Intellectual Property Rights in India
- Patentable & Copyright Subject Matter
- Benefits of filing Patent & Copyright
- Introduction to Protein analysis by western blot
- Patent & Copyright filing procedure including international and Lecture-Seminar presentation national filing
- Tools for patent & Copyright searching and search strategy
- Commercialization of patents & Copyright

Practical

- Tools for patent & Copyright searching and search strategy
- Patent & Copyright filing procedure including international and national filing

Assessment & Assignment:

- 1. Patent and copyright infringement Case Study***
- 2. Project on scope of IPR in Health Care***
- 3. Project on Status of IPR activity in India***

S. No	Assessment method (FORMATIVE)	Eligibility requirement
1	Assignment marks	50%
2	Portfolio	50%
3	Project	50%
4	Test marks	50%

S.No	Assessment method (SUMMATIVE)	Eligibility requirement
1	Final Test	Minimum of 50% formative and summative assessments
2	Term paper	Minimum of 50% formative and summative assessments
3	Case study	Minimum of 50% formative and summative assessments

Certificate: Certificate will be provided for students with >80% attendance and Pass percentage of 50%

Feedback: Online feedback will be obtained at the end of the course.

Course Fee: Rs.5000 /-

Name of the course	<i>Certificate course in Yoga for Health and Wellness</i>
Course code	SVAC19-05
Course offered by	Centre for Yoga Therapy, Education and Research (CYTER), Sri Balaji Vidyapeeth
Duration and Frequency	Two Days
Intended Audience	Health Care Professionals
Intended Learning Outcomes	<ul style="list-style-type: none"> • To promote wellness concept in health care profession. • To encourage health care professionals to adopt yoga therapy in patient care as supportive therapy.

Syllabus

The interdisciplinary certificate course in yoga for health and wellness which was conducted by the CYTER is a holistic approach towards the life and work balance in our busy schedule. It introduces us to the yogic practices for a peaceful and stress free way to approach day-to-day problems in our life.

- Integration of Yoga into Health Professions Education.
- Introduction to Yoga philosophy, psychology and lifestyle.
- Loosening Practices and Yogasanas.
- Introduction to yogic concept of health and disease.
- Pranayama and its significance in Yogic curriculum.
- Pranayama practices.
- Brief history and development of Yoga.
- General Guidelines for Yoga Practice.
- Introduction to various aspects of Yoga: Kriyas, Bandhas, Mudras and yogic relaxation.
- Yogasanas and Pranayama practices.
- Traditional Schools of Yoga.
- Enhancing Wellness through Ayurveda and Yoga.
- Question and Answer session and MCQ Test.

ASSESSMENTS:

Formative Assessment: (50 marks)

Participants will be evaluated by the faculty of the certificate course during the sessions

Summative Assessment: (50 marks)

MCQ test will be conducted to all participants.

Sum Total: 100 marks

Marks will be converted into grades as per university norms.

Name of the course	<i>Introduction to basics and practical aspects of ELISA and Western blot</i>
Course code	SVAC19-06
Course offered by	CIDRF (SBV)
Duration and Frequency	3day/year (9.00 am – 5.00pm)
Intended Audience	<ul style="list-style-type: none"> • Post Graduate Students • Doctoral Students/Researchers • Clinicians • Scientists/analysts of industries
Intended Learning Outcomes	<ul style="list-style-type: none"> • The course will enable the trainee to understand the theoretical and practical aspects of ELISA & Western blot and will both basics and practical aspects. • The module will cover different types of ELISA techniques so that the trainee learns all aspects of the technique and is able to apply them aptly in research and diagnosis. • The module will cover setting up of immune blotting and documentation techniques.

Syllabus

- Basics of ELISA
- How to choose and design an assay (Theory)
- Practical (demonstration)
- Introduction to Protein analysis by western blot
- Protein Quantification basics and technique
- Reagent Preparation
- SDS-PAGE
- Transblot and Protein Immuno staining
- Detection, Documentation and data analysis

Assessment & Assignment:

Overall Evaluation	
Component	Total Marks
MCQ based test on day 3	25
Practical based test on day 6	75
Total Marks	100
Pass Marks	60

Certificate: Certificate will be issued to those with >80% attendance & 60 marks

Feedback: Online feedback will be obtained with Google forms.

Course Fee: Nil

Name of the course	<i>Certificate Course on Communication Skills for Health Care Professionals</i>
Course code	SVAC19-07
Course offered by	Mahatma Gandhi Medical College & Research Institute
Duration and Frequency	2 days (9.00am-5.00pm) and 2hrs self study / day
Intended Audience	<ul style="list-style-type: none"> • PG Residents, • Junior level faculty, • PhD & MPhil students from Medical, • Dental, • Nursing & Allied Health Science specialities
Intended Learning Outcomes	<ul style="list-style-type: none"> • Know what patient and health care provider need to communicate to each other • Be able to build rapport with patients, to feel and demonstrate empathy • Know about the importance, theoretical aspect, and effective use of Questioning, Listening & Answering skills • Know about the implications, theoretical aspect, and effective use of Non verbal skills. • Explore factors affecting the communication and behavior of health care provider and patient. • Explore factors affecting communication & behavior of healthcare provider & patient, and apply them to breaking bad news and other crucial/critical contexts • Knowing how to deal effectively with special population of patients like pediatric, geriatric, antenatal mothers. • Know what & how to communicate effectively in a team. • Ability to resolve conflict in a health setup.

Syllabus

- Communicating effectively in crucial & critical situations/contexts
- Essential skills of Communication between the Health Care Professional & Patient
- Advanced Skills of Communication between the Health Care Professional & Patient.
- Communicating with special populations
- Professional communication

Assessment & Assignment: *The final exam consists of two parts: Pre & Post Test.*

Certificate: *Certificate will be provided for students with >80% attendance and Pass percentage of 50%*

Feedback: *Online feedback will be obtained at the end of the course.*

Course Fee: *Rs 5000 /-*

Name of the course	<i>Certificate in conventional and real-time PCR technology</i>
Course code	SVAC19-08
Course offered by	CIDRF (SBV)
Duration and Frequency	2 days / Year (8.00am-5.00pm)
Intended Audience	Faculties, PhD scholars, PG students
Intended Learning Outcomes	<ul style="list-style-type: none"> • At the end of the course, the trainee will be able to plan, design and perform conventional and real time PCR assays • Design PCR primers using relevant bio informatic tools • Analyze and Interpret the data

Syllabus

Theory

- Introduction to PCR and optimization of PCR parameters
- Basics of primer design and PCR applications
- Agarose gel electrophoresis & gel documentation
- Group discussion on the clinical and more applications of PCR
- Introduction to Real time PCR: Principles and Chemistries, SYBR green and TaqMan
- Quantitation: absolute, relative and relative standard curve
- Applications of Real time PCR: (Diagnostics and Clinical Research)

Practical

- Demonstration of the PCR machine
- Setting up a PCR Reaction, Hands-on training and trouble shooting
- Performing agarose gel electrophoresis
- Discussion of the results and Good PCR laboratory practice
- Sample preparation and setup of real time PCR
- Data analysis, Statistics and Trouble shooting of real time PCR

Assessment & Assignment:

S. No	Assessment method (FORMATIVE)	Eligibility requirement
1	Pre test	50%
2	Multiple Choice Questions as continuous assessment during the course	50%

S.No	Assessment method (SUMMATIVE)	Maximum marks	Eligibility requirement
1	Theory	50	25 marks
2	Skill test	25	12.5 marks
3	Viva	25	12.5 marks

Certificate: Certificate will be issued to those with >80% attendance & >50% marks in the assessments.

Feedback: Online feedback will be obtained with Google forms.

Course Fee: Rs.3000 /-

Name of the course	<i>A Credit Based Certificate Course on Natural Product Extraction and HPLC Analysis</i>
Course code	SVAC19-09
Course offered by	CIDRF (SBV)
Duration and Frequency	3 days every year (9.00am - 4.00pm)
Intended Audience	Faculties, PhD scholars, PG students
Intended Learning Outcomes	<ul style="list-style-type: none"> • Extraction methods for Natural products. • Value of natural products on therapeutic usage • Learn the extraction techniques • Basics and practical aspects of HPLC analysis • Learn how to set up and run HPLC analysis with full Understanding of all the method parameters and how to interpret and quantify the results of the analysis

Syllabus

Theory

- Introduction to natural product extraction
- Different types of extraction methods
- Basics of HPLC
- HPLC-therapeuticuse

Practical

- Different types of natural product extraction techniques
- Performing an HPLC analysis of a standard drug

Assessment & Assignment:

S. No	Assignment / Projects/ Self study	Number of Hours	Credits
1	Portfolio, Assignments and project	16	5

S. No	Assessment method (SUMMATIVE)	Maximum marks	Eligibility requirement
1	Final exam	80	40
2	Project	20	10
Total		100	50

S. No	Assessment method (FORMATIVE)	Maximum marks
1	Assignment	25
2	Portfolio	25
3	Theory Exam	50
	Total	100

***Pass requirement:** Min of 50% in formative assessment and 50% in summative assessment

Certificate: Certificate will be issued to those with >80% attendance & >50% marks in the assessments.

Feedback: Online feedback will be obtained with Google forms.

Course Fee: Rs. 5000/-

Name of the course	<i>Certificate Course in Palliative Care for health Professionals</i>
Course code	SVAC19-10
Course offered by	Mahatma Gandhi Medical College & Research Institute
Duration and Frequency	2 days (8.30am - 5.30pm)
Intended Audience	<ul style="list-style-type: none"> • Health Professional Students including MBBS., BDS., Nursing Students and Allied Health • Service Students and Doctors who have completed MBBS / BDS (including those doing their internship) • Nurses with Diploma in Nursing / BSc Nursing
Intended Learning Outcomes	<ul style="list-style-type: none"> • To inculcate the principles of palliative care to improve patient care through proper communication and effective management of difficult symptoms. • To improve their communication skills and their outlook towards patients and for doctors and nurses in their day to day professional life

Syllabus

- Introduction of palliative care
- Communication skills in palliative care and breaking bad news
- Ethics
- Lymphoedema
- Radiotherapy & chemotherapy in palliative care
- Wound care
- Care of the palliative patient
- GI symptoms-diarrhoea / vomiting / nausea
- Stoma care
- Nursing issues
- Pain management
- Breathlessness and medical issues in palliative care
- Anxiety , depression & delirium
- Paediatric palliative care
- Emergencies in palliative care

Assessment & Assignment: The final exam consists of two parts: Pre & Post Test.

Certificate: Learner will achieve a minimum of 50% on written exam & >80% attendance

Feedback: Online feedback will be obtained at the end of the course.

Course Fee: Nil

Name of the course	<i>A Credit-Based course on Music for Health and Wellness</i>
Course code	SVAC19-11
Course offered by	
Duration and Frequency	3 days & Bi - yearly
Intended Audience	Musicians, Music therapists, Music therapy students, Psychologists, Art therapists.
Intended Learning Outcomes	<ul style="list-style-type: none"> • Describe the role of music in health and wellbeing • Understand the direct benefit of music as therapy in the health care delivery • System (music medicine) and apply music as therapy in clinical settings. • Understand the basics of music therapy • Distinguish between healing practices, music therapy and music medicine approaches • Integrate music in daily life as a way to improve, restore or sustain health of one's own self. • Reflect and be sensitive to the aesthetic and therapeutic properties of music

Syllabus

Unit 1

History of Healing and Music Therapy in India- Traditional Healing Systems and practices. Vedic chanting, Raga Chikitsa, Chakra activation through music. Use of music with Ayurvedic Principles. Understanding the different elements of music such as pitch, melody, rhythm, timbre, tempo, dynamics and silence. Introduction to Time theory of Ragas, Raga Rasa Theory, Chrono-biological implications, biological rhythms such as endogenous and exogenous rhythms.

Unit 2

Conceptual framework for music, health and wellness, Scope of music therapy and music medicine approaches. Therapeutic properties of music, bio psycho social foundations to music and health. Major psychological theories backing music therapy (Psychodynamic, behavioural and humanistic), music as a mind body therapy, music for selfcare, everyday use of music for positive emotions, and music as a life style strategy for stress

Unit 3

Neurobiological foundations of music-How music is processed in the brain, role of Limbic System in processing emotions and major computational centers of music in brain and effect of music on autonomic nervous system activity, changes in the physiological measures like heart rate, respiratory rate and HRV

Unit 4

Methods and techniques of music therapy practice-and broad range of responses to these methods of practices. Different methods of music therapy like singing, listening, playing of musical instruments, song-writing, improvisation and therapeutic verbal discussion. Relaxation training ,with guided and unguided imagery, musical drama, song reminiscence and song lyric discussion. Improvisational techniques such as copying, mirroring and pausing used in music therapy sessions.

Practical

1. Role Play-Understanding sensitivities to different musical elements, effect of music on self and others - music that activates, relaxes, expresses emotions, improves mood and reminiscences
2. Role Play-Learning to assess the musical profile and record musical responses for pleasure, engagement, self-expression and creativity
3. Self-experiential session with group drumming to improve attention, concentration, Self-expression
4. Relaxation training
5. Recording of physiological variables like blood pressure, pulse rate and respiratory rate
6. Multi-sensory stimulation with different music methods and brain functions
7. Analysis of music therapy videos in clinical settings

Assessment & Assignment:

Formative Evaluation		Summative Evaluation	
Component	Weight (Example)	Component	Weight (Example)
Any other Assignment	20	Final Test	30
Portfolio	30	Project	20
Total	50	Total	50

***Pass requirement:** Minimum of 50% in formative and summative assessments

Certificate: Certificate will be issued to those with >80% attendance, completion of assignments.

Feedback: Online feedback will be obtained with Google forms.

Course Fee: Rs.5000 /-

Name of the course	<i>Certificate Course On Basic Mammalian Cell Culture For Biomedical Research</i>
Course code	SVAC20-09
Course offered by	CIDRF (SBV)
Duration and Frequency	3 days / Year (8.30am-5.00pm)
Intended Audience	Undergraduate students of SBV
Intended Learning Outcomes	<p>Students then develop their practical skills learning the below techniques:</p> <ul style="list-style-type: none"> • Sterile media preparation • Passaging of suspension and adherent cell lines • Cryopreservation and resuspension of cell stocks • Cell separation and isolation using density centrifugation techniques. • Analysis of morphology and cell number

Syllabus

- Introduction to Cell Culture T Cell Culture
- Qualification & Requirement
- Microscopy (Emphasis on Phase Contrast) Tour of qualified cell culture facility
- Cell visualization (Phase Contrast Microscopy)
- Biosafety & Contamination in cell culture
- Sterilization techniques for cell culture
- Cell handling (prelims) – Medium change
- Storage techniques (4 to -196degree Celsius)
- Cryopreservation and Trypsinization, passaging, viability, Counting
- Cryopreservation of cells
- Reviving of cells
- Post passage monitoring of cells
- Cell doubling time, Population doubling assay
- Monitoring of passaged & cryopreserved cells
- Cell doubling time and PD calculation
- Handling of suspension cells (passaging)
- Stereomicroscopy
- Preparation of PBS, pH & Sterilization

- Preparation of medium

Assessment & Assignment: *The final exam consists of two parts: Pre & Post Test.*

Certificate: *Certificate will be provided for students with 100% attendance and Pass percentage of >80%*

Feedback: *Online feedback will be obtained at the end of the course.*

Course Fee: *Nil*