



SRI BALAJI VIDYAPEETH

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

Pillaiyarkuppam, Pondicherry - 607 402

PROSPECTUS

Advanced Cardiovascular Life Support (ACLS)

Provider Course



American
Heart
Association®



VISION & MISSION

VISION

- Sri Balaji Vidyapeeth will strive to be a premier global health sciences university leading in the frontiers of education, research and patient care.

MISSION

- To create an innovative ecosystem that facilitates the development of health care professionals.
- To contribute to the health care workforce with competent and committed professionals.
- To provide preventive, curative and palliative high quality evidence – based care that is affordable and accessible.
- To foster a culture of scientific inquiry, research and innovation in contemporary and emerging health and related sciences.
- To be inclusive and committed in promoting wellness and empowerment of the society.

VALUES

- Inclusiveness, Integration, Innovation
- Engagement, Empowerment, Excellence



SHRI.M.K.RAJAGOPALAN,
Chairman
Sri Balaji Educational & Charitable Trust

CHANCELLOR'S MESSAGE

You are our National Treasure, and our Country's Future is in your Hands. Our Nation looks forward to utilize your talents in service of the Society. We firmly believe that the molding of the student into a well-qualified Professional largely depends on the broad vision of educational Institute.

Sri Balaji Vidyapeeth University is an embodiment of a broader vision and planned development of a sound education system... where the environment is conducive and pleasant to study, live and work, where education and research hand in hand ... where the hidden and inherent skills and talents of the students are nurtured and developed for the benefit of the society, for generations to come. Whatever be your ambition in health profession, the University's renowned course curriculum, Reintegrate contemporary developments and needs, provide opportunities for observation, investigation and discussion, thus motivating and nurturing young talents within the dynamic intellectual environment of SBV(DU). Our highly qualified, skilled and experienced academic team, fostering innovation and generating new knowledge, is dedicated to help you achieve the best. Sri Balaji Vidyapeeth's prime goal is to create an enlightened and healthy society and it has been at the vanguard of Nation development, supporting the progress of Humanity through high standards of education and research, for a long, sound, purposeful and meaningful life. Come, join our world. Let us create a better integrated global community of shared benefits, responsibilities and values for the benefit of all things living. Our origins and lives may be different, but we do share the same planet and belong to the same Mother Earth. And remember.... you are the nation's greatest gift and we are duty bound to do our best for our Nation.

VICE-CHANCELLOR'S MESSAGE

Prof. K.R. Subraman



The most striking achievement of SBVU during the year 2015 has undoubtedly been securing NACC-A-grade with a score 3.11 of 4.0. Achieving this in the very first cycle of NAAC is a remarkable turn around for SBVU, considering its travails since 2009. The other note worthy event in 2015 has been the signing of academic partnership agreement with partners Medical International (PMI group) of USA for curriculum development and skills upscaling of the Faculty of Medicine of SBV. We believe that this initiative will go a long way in improving the image of the medical courses offered by SBVU at MGMCRI and SSSMCRI, making them attractive to the prospective UG and PG Students. The credit for pushing for SBVU -PMI Collaboration goes to our young and dynamic deputy Chairman of SBECPT Dr.M.R.Prashanth, who made the initial contact with PMI during his Postgraduate study at Boston and persisted with it until the signing of the MOU. The staffs and student of all the four Constituent Colleges have worked hard and showed tremendous team work in preparing for accreditation by NAAC. SBVU is truly blessed to have a heady mix of young and enthusiastic Faculty members working side by side with "Senior Zen masters", who have wisdom acquired from long years of experience. We look forward to 2016 with the invigoration created by the award of A-grade by NAAC.

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.

Introduction of the course

Course Title: Advanced Cardiovascular Life Support (ACLS) Provider Course

Duration: Two Days (9 am to 4 pm) (+2 hrs self study/day)

(Students who intend to take this course have to register at least 3 weeks before the course date. A pre-course preparation of at least 3 weeks using the ACLS student manual is recommended before participating in the course).

Course description and goal:

The Advanced Cardiovascular Life Support (ACLS) Provider Course is designed for healthcare providers who either direct or participate in the management of cardiopulmonary arrest or other cardiovascular emergencies.

Through didactic instruction and active participation in simulated cases, the students will enhance their skills and clinical decision-making abilities for the diagnosis and treatment of cardiopulmonary arrest, acute arrhythmia, stroke and acute coronary syndromes. Students are taught to use the following important concepts:

Basic Life Support (BLS) Survey
High-quality cardiopulmonary resuscitation (CPR)
ACLS Survey
ACLS algorithms
Effective resuscitation team dynamics
Immediate post-cardiac arrest care

The goal of the ACLS Provider Course is to improve outcomes for adult patients with cardiac arrest and other cardiopulmonary emergencies through provider training.

Course objectives:

Upon successful completion of this course, the student will

- Recognize and initiate early management of peri-arrest conditions that may result in cardiac arrest or complicate resuscitation outcome.
- Demonstrate proficiency in providing BLS care, including prioritizing chest compressions and integrating use of an automated external defibrillator (AED)
- Recognize and manage respiratory arrest
- Recognize and manage cardiac arrest until termination of resuscitation or transfer of care, including immediate post-cardiac arrest care.
- Recognize and initiate early management of acute coronary syndromes (ACS), including appropriate disposition
- Recognize and initiate early management of stroke, including appropriate disposition
- Demonstrate effective communication as a member or leader of a resuscitation team and recognize the impact of team dynamics on overall team performance.

Faculty: ACLS Provider Course is taught by MGMCRI faculty who are AHA certified instructors. There are 17 AHA accredited ACLS Instructors aligned with MGMCRI.

Number of seats: 12 students are admitted to each course. One ACLS course is held every month. In addition, all Postgraduate resident doctors of MGMCRI undergo mandatory training in ACLS.

Eligibility criteria for students: ACLS is designed for healthcare professionals who either direct or participate in the management of cardiopulmonary arrest and other cardiovascular emergencies. This includes personnel in emergency response, emergency medicine, intensive care and critical care units.

Course content:

The ACLS Provider Course emphasizes 3 major concepts:

- The crucial importance of high-quality CPR to patient survival
- The integration of effective BLS with ACLS interventions
- The importance of effective team interaction and communication during resuscitation

The course content includes

- Airway management
- Basic life support skills, including effective chest compressions, use of a bag-mask device & use of an AED
- Effective communication as a member and leader of a resuscitation team
- Effective Resuscitation Team Dynamics
- Key changes in advanced cardiovascular life support, reflecting the 2010 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care
- Management of acute coronary syndromes (ACS) and stroke
- Recognition and early management of peri-arrest conditions such as symptomatic bradycardia
- Recognition and early management of respiratory and cardiac arrest
- Related pharmacology

The course is designed to give students the opportunity to practice and demonstrate proficiency in the following skills used in resuscitation:

- BLS and ACLS surveys
- CPR and AED
- Airway Management
- Rhythm recognition
- Defibrillation
- Use of medications
- Cardioversion
- Transcutaneous pacing
- Team resuscitation concept (team leader and team member)
- Post-cardiac arrest care



Teaching Methodology:

- The students are taught using an Instructional DVD with students practicing skills while watching the Instructional video.
- The high point of the ACLS Provider Course is that students learn the Megacode Team Resuscitation approach to cardiac arrest, post-cardiac and peri-cardiac arrest care on advanced High-Fidelity simulator manikins.

The student : manikin ratio for CPR and Airway Management is 3:1

The student : manikin ratio for Megacode Team Resuscitation on High-Fidelity manikins is 6:1

Evaluation and Course Completion Requirements:

To complete the ACLS Provider course successfully and to be eligible to receive the AHA ACLS Course completion card, a student must

1. Pass the 1-Rescuer CPR and AED Test
2. Pass the 1-Rescuer bag-mask ventilation Test
3. Demonstrate competency in all learning station skills
4. Pass the Megacode Test

Pass the Written Exam with a score of at least 42 out 50 (84%) Multiple Choice Questions

