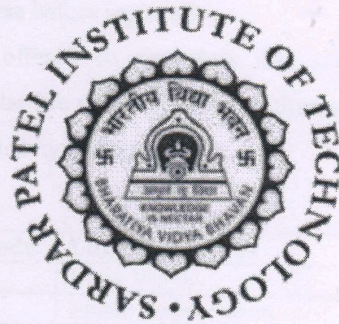


Bharatiya Vidya Bhavan's
Sardar Patel Institute of Technology
(Autonomous Institute Affiliated to University of Mumbai)

Revision: SPIT-1/2-19



Bachelor of Technology (B.Tech)

Life Skill Courses

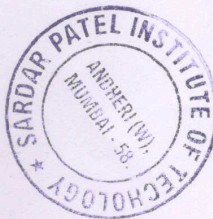
First and Second Year Engineering
(Sem. II and Sem. IV)
Effective from Academic Year 2019 -20

Board of Studies Approval: 06/11/2018

Academic Council Approval: 16/01/2019

Principal

Sardar Patel Institute of Technology
Bhavans Andheri Campus
Munshi Nagar, Andheri (West),
Mumbai - 400 058.





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Life Skill Course (LSC):

- At least one non-credit pass/fail life skill course is compulsory in a given semester
- Student must verify the life skill art course offered by the institute in a particular semester and the timing of the course before registration
- These courses will be offered on first cum first serve basis to the students. Once registrations for a particular life skill course is full then students will have to take available course only (may be allotted by college).

S.N.	Course Code	Life Skill Course
1	LSC1	Yoga Vidya
2	LSC 2	Music Appreciation
3	LSC 3	Dramatics
4	LSC 4	Self Defense
5	LSC 5	First Aid
6	LSC 6	Athletics
7	LSC 7	Aerobics & Fitness
8	LSC 8	Script writing
9	LSC 9	Public Speaking
10	LSC 10	Photography
11	LSC 11	Sketching
12	LSC 12	Vehicle Maintenance and Traffic Rules
13	LSC 13	Garden Design and Maintenance



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Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
LSC1	Yoga-Vidya	1	-	-	Non-Credits			
		Examination Scheme						
		ISE1		ISE2		Attendance		Total
		20		20		10		50

Student will be evaluated after six sessions for 20 Marks (ISE1) and at the end of last session for 20 Marks (ISE2). Grade equivalent to 'D' (50%-59.99% Marks) or above is considered as 'Satisfactory'. If any of the tasks given is not completed/submitted/shown/evaluated then the corresponding lower grade will be given. Although the grades are given they will not mentioned in final grade card but they are necessary to declare the successful completion of the Non-Credit course.

Pre-requisite Course Codes	---	
After successful completion of the course, student will be able to		
Course Outcomes	CO1	Student will be able to perform various techniques of Yoga
	CO2	Student will be able to follow healthy habits to improve immune system
	CO3	Student will be able to describe the importance of Yoga in one's life
	CO4	Student will be able to make resolution to practice techniques of Yoga

Through this course, students will get an all-round experience of how Yoga can benefit their body, breath, emotions along with relaxation techniques to maintain a calm and balanced state of mind.

Day No.	Topics	Hrs.
1	What is Yoga, why Yoga? Techniques: warm up stretches for hands, legs, neck; Sukhasana, Padmasana	1
2	Introduction to Ashtanga Yoga Techniques: Talasana, Utkatasana, Konasana 2	1
3	Asana classification and importance of different types of Asanas Techniques: Sthita-prarathanasana, Ekpadasana, Garudasana	1
4	Yogendra rhythm- breathing pattern Techniques: Parvatasana, Yashtikasana	1
5	Forward bending and abdominal compression Techniques: Konasana 3, Yogamudra	1
6	ShuddhiKriyas- Prevention of diseases by improving immune system Techniques: Jalaneti, Kapalabhati	1
7	Yogic Aahar Techniques: Vajrasana, Pavanmuktasana	1



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8	Relaxation and it's importance Techniques: Shavasana	1
9	Spine and it's importance in Yoga Techniques: Bhujangasana, Makarasana, Vakrasana	1
10	Pranayama Techniques: Basic techniques	1
11	Attitude training Techniques: connecting techniques to concepts.	1
12	Pranayama Techniques: Traditional Pranayama	1
13	Yogachara- The Yoga way of living Techniques: Games	1
14	Revision	1



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Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
LSC2	Music Appreciation	1	-	-	Non-Credits			
		Examination Scheme						
		ISE1		ISE2		Attendance		Total
		20		20		10		50

Student will be evaluated after six sessions for 20 Marks (ISE1) and at the end of last session for 20 Marks (ISE2). Grade equivalent to 'D' (50%-59.99% Marks) or above is considered as 'Satisfactory'. If any of the tasks given is not completed/submitted/shown/evaluated then the corresponding lower grade will be given. Although the grades are given they will not mentioned in final grade card but they are necessary to declare the successful completion of the Non-Credit course.

Pre-requisite Course Codes	---	
After successful completion of the course, student will be able to		
Course Outcomes	CO1	Appreciate various processes of Music composition
	CO2	Appreciate the role of engineers in sound recording

S.N.	Topics	Hrs.
1	Introduction to audio and digital audio	2 hr
2	Types of Mics and Speakers	1 hr
3	Introduction to instruments	2 hr
4	Introduction to Audio Console	2 hr
5	Audio Production Process	2 hr
6	Effects	2 hr
7	Mixing aesthetics	2 hr
8	Make your song	2 hr



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Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
LSC3	Dramatics	1	-	-	Non-Credits			
		Examination Scheme						
		ISE1		ISE2		Attendance		Total
		20		20		10		50

Student will be evaluated after six sessions for 20 Marks (ISE1) and at the end of last session for 20 Marks (ISE2). Grade equivalent to 'D' (50%-59.99% Marks) or above is considered as 'Satisfactory'. If any of the tasks given is not completed/submitted/shown/evaluated then the corresponding lower grade will be given. Although the grades are given they will not mentioned in final grade card but they are necessary to declare the successful completion of the Non-Credit course.

Pre-requisite Course Codes	---	
After successful completion of the course, student will be able to		
Course Outcomes	CO1	Understand an Art of Theatre.
	CO2	Express their thoughts.
	CO3	Create and visualize new ideas.
	CO4	Perform impressively.

Day No.	Topics	Hrs.
1	Lalitkala (Forms of Art)	1
2	Drama – Show and Text	1
3	Techniques – Abhinay (Acting)	1
4	1. VachikAbhinay (Reading)	1
5	2. AngikAbhinay (Expressions)	1
6	3. SatvikAbhinay	1
7	Digdarshan (Direction)	1
8	Nepathya (Settings)	1
9	Veshbhusha (Drapery)	1
10	Natyabhasha (Dialogs and Language)	1
11	Kaal and Avakash (Time and Space)	1
12	Natya Rasa (Theory of Rasa)	1
13	Natya Rasa (Theory of Rasa)	1
14	Aswad prakriya	1
	Total	14



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References:

- [1] An Actors prepare – Stanislavsky (English)
- [2] A building a Character – Stanislavsky(English)
- [3] Natyashastra – Bharatmuni (English And Marathi)
- [4] Abhinaysadhana- K. Narayan Kale (Marathi)
- [5] Natyavimarsh-K. Narayan Kale (Marathi)
- [6] JagatikRangabhumichaItihas – Kru. Ra. Sawant (Marathi)
- [7] Marathi RangabhumichaItihas- Shri. Na. Banahatti (Marathi)
- [8] Lalitkalamimansa- Go. Chi. Bhate(Marathi)
- [9] SahityaAdhyapan Ani Prakar- va.la. KulakarniGauravgranth(Marathi)
- [10] VachikAbhinay- Dr. ShriramLagoo (Marathi)
- [11] Rangnayak- Arwind Deshpande



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Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned				
		L	T	P	L	T	P	Total	
LSC4	Self Defense	1	-	-	Non-Credits				
		Examination Scheme							
		ISE1		ISE2		Attendance		Total	
		20		20		10		50	

Student will be evaluated after six sessions for 20 Marks (ISE1) and at the end of last session for 20 Marks (ISE2). Grade equivalent to 'D' (50%-59.99% Marks) or above is considered as 'Satisfactory'. If any of the tasks given is not completed/submitted/shown/evaluated then the corresponding lower grade will be given. Although the grades are given they will not mentioned in final grade card but they are necessary to declare the successful completion of the Non-Credit course.

Pre-requisite Course Codes	---	
After successful completion of the course, student will be able to		
Course Outcomes	CO1	Use strategies and tactics after recognizing developing attack for self defense
	CO2	Demonstrate techniques of self defense to prevent someone from hurting him/her
	CO3	Use different ways that men and women tend to approach confrontations

This course is introduced with the motto that '*you must accept responsibility for your own protection*'. In this course student will be able to learn self defense, a new skill that will save his/her life. It is expected that the techniques demonstrated in each lectures are easy to understand and based on a reality-based scenarios. There are many means of protecting yourself like hitting certain pressure points which will be demonstrated in the course.

Module No.	Topics	Hrs.
1	Introduction, Purpose and Awareness. Mental Attitude: What is self defense? Positive thinking and spotting trouble.	2
2	Defense Moves for Beginners that You Must Know. Safe Distance, Verbal Parries, Pre-attack Cues, Footwork, Movement, and Blocking.	2
3	Chokes, Wrist/Arm Grabs, Clothing Grabs. How to Defend Against Grabs	2
4	Punches, Grab and Punch, Kick Defense, Hair Grabs. How to Defend Against a Punch and Grab	2
5	Targets, Basic Strikes, Basic Kicks. How to Dodge Against Kicks	2
6	How to Defend Against a Knife Attack. How to Execute Aggressive Counter Attack	2
7	Selected Special Situations, Sexual Assaults and Unwanted Attention	2
	Total	14



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Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
LSC5	First Aid	1	-	-	Non-Credits			
		Examination Scheme						
		ISE1		ISE2		Attendance		Total
		20		20		10		50

Student will be evaluated after six sessions for 20 Marks (ISE1) and at the end of last session for 20 Marks (ISE2). Grade equivalent to 'D' (50%-59.99% Marks) or above is considered as 'Satisfactory'. If any of the tasks given is not completed/submitted/shown/evaluated then the corresponding lower grade will be given. Although the grades are given they will not mentioned in final grade card but they are necessary to declare the successful completion of the Non-Credit course.

Pre-requisite Course Codes	---	
After successful completion of the course, student will be able to		
Course Outcomes	CO1	Respond to an emergency situation as a responsible citizen of country
	CO2	Demonstrate use of proper first aid techniques in case of life threatening emergencies, injuries and medical emergencies
	CO3	Demonstrate that he/she is trained to use first aid skills to help someone until medical professionals arrive
	CO4	Demonstrate that he/she is trained to provide care to both children and adults during times of crisis

This course is included with a mission to prevent loss of life and injury in the community. First Aid is the temporary help given to a sick or injured person before professional medical help can be provided. This timely assistance is most critical to victims, and in most cases, is life saving. A first-aiders immediate response in the first fifteen minutes after the incident is a determining factor of what will happen to the victim in the next one hour. A course is designed to teach students first aid procedures and life saving drills. This course will enable the student to recognize and avoid hazards within his/her environment; to intelligently assist in case of accident or illness; to develop skills necessary for immediate and temporary care of a victim.



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Module No.	Topics	Hrs.
1	Responding to emergency, Where to get help, Before Giving Care, The Human Body, Checking the Person	3
2	Life Threatening Emergencies: Cardio Pulmonary Resuscitation (CPR), breathing emergencies, bleeding, shock	3
3	Injuries: Soft Tissue Injuries, Musculoskeletal Injuries, Injuries to the Extremities, Injuries to the Head, Neck and Spine, Injuries to the Chest, Abdomen and Pelvis	3
4	Medical Emergencies: Sudden Illnesses, Poisoning, Bites and Stings, Substance Abuse and Misuse, Heat-Related Illnesses and Cold-Related Emergencies, Heat Burns and Chemical Burns, Eye, Nose, Ear emergencies	3
5	Special situations: Water-Related Emergencies, Pediatric, Older Adult and Special Situations, Emergency Childbirth, Disaster, Remote and Wilderness Emergencies	2
	Total	14

Reference:

1) Manual from American Red Cross 'Responding to Comprehensive First Aid/CPR/AED'.



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Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
LSC6	Athletics	1	-	-	Non-Credits			
		Examination Scheme						
		ISE1		ISE2		Attendance		Total
		20		20		10		50

Student will be evaluated after six sessions for 20 Marks (ISE1) and at the end of last session for 20 Marks (ISE2). Grade equivalent to 'D' (50%-59.99% Marks) or above is considered as 'Satisfactory'. If any of the tasks given is not completed/submitted/shown/evaluated then the corresponding lower grade will be given. Although the grades are given they will not mentioned in final grade card but they are necessary to declare the successful completion of the Non-Credit course.

Pre-requisite Course Codes	---	
After successful completion of the course, student will be able to		
Course Outcomes	CO1	Demonstrate lifelong fitness skills that will help him or her lead a more productive and independent life.
	CO2	Demonstrate self-discipline in day to day life
	CO3	Display ability to make independent decisions

This course is introduced to create a sense of self discipline and importance of fitness in a person's life. Appropriate Athletics attire is required for all students. Course instructor is expected to continually observe athletic skills in student, assess their skills and give positive encouragement for improvement. This course teaches the student sports skills that are essential to a variety of other activities. It also provides the students with a means for self-expression and social interaction. Long term goal is that the student will acquire basic athletics skills, appropriate social behavior and functional knowledge of the rules necessary to participate successfully in athletics competitions. Students enrolled in these course are expected to participate in S.P.I.T. organized Marathon kind of events.



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Module No.	Topics	Hrs.
1	Mental Preparation, Warm-Up, Walking, Running, Stretching, Cool-Down Upper Body, Low Back & Glutes and Lower Body	1
2	Basic Mechanics of Running: Sprinter and Distance Runner	1
3	Starts Skill Progression, Stand-up Start, Deep Start, Push-up start, Block start, Starts, Power Foot	1
4	Sprints Skill Progression, The Sprints, Start Phase, Accelerating Phase, Finish Phase and Sprint Striding Techniques	1
5	Hurdles Skill Progression	1
6	Relays Skill Progression	1
7	Middle Distance Skill Progression	1
8	Long Distance Skill Progression	1
9	Marathon Skill Progression	1
10	Standing Long Jump Skill Progression Running Long Jump Skill Progression	1
11	High Jump Skill Progression	1
12	Race Walking Skill Progression	1
13	Wheelchair Racing Skills Progression	1
14	Softball Throw Skill Progression	1
	Total	14



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Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
LSC7	Aerobics & Fitness	1	-	-	Non-Credits			
		Examination Scheme						
		ISE1		ISE2		Attendance		Total
		20		20		10		50

Student will be evaluated after six sessions for 20 Marks (ISE1) and at the end of last session for 20 Marks (ISE2). Grade equivalent to 'D' (50%-59.99% Marks) or above is considered as 'Satisfactory'. If any of the tasks given is not completed/submitted/shown/evaluated then the corresponding lower grade will be given. Although the grades are given they will not mentioned in final grade card but they are necessary to declare the successful completion of the Non-Credit course.

Pre-requisite Course Codes	---	
After successful completion of the course, student will be able to		
Course Outcomes	CO1	Apply knowledge of aerobic and strength routines that will enhance lifetime fitness.
	CO2	Demonstrate an understanding of the strategies, current research, safety and etiquette associated with aerobics.
	CO3	Describe an understanding of the mental and physical health benefits to be derived from aerobics.
	CO4	Identify the significance of nutrition and components of Nutrient
	CO5	Draft personal fitness plan

This course is designed to offer the students a wide variety of cardiovascular fitness activities in order to physical wellness. Aerobics can be defined as group exercise to music, using large, continuous, rhythmic movements to elevate the heart rate and produce a training effect, enhancing cardiorespiratory endurance. This course will teach students knowledge of fundamental skills and techniques related to aerobics.



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Module No.	Topics	Hrs.
1	Introduction: 1.1 Meaning and definition of fitness and wellness and its components. 1.2 Factor affecting physical fitness and values of physical fitness. 1.3 Means of fitness development - Aerobic and anaerobic exercise. 1.4 Warming up and cooling down – Methods, Duration & components of warming up and calculate target heart rate zones for various aerobic exercise intensities.	2
2	Contemporary Health Issues 2.1 All-Around best balanced diet plan 2.2 Food guide pyramids and food guide labels(Nutrition facts) 2.3 Weight Management: Factors influencing obesity, winning strategies for weight-loss success, 2.4 Alcohol and other drugs of abuse.	2
3	Stress maintenance guidelines	2
4	Workout and physical activity	2
5	Workout and physical activity	2
6	Workout and physical activity	2
7	Workout and physical activity	2
	Total	14

Recommended Books:

- 1) Kravitz, Len “Anybody’s Guide to Total Fitness”, Kendall Hunt Publishing Co.10th Ed.
- 2) Kenneth H. Cooper, “The New Aerobics”, M. Evans and Company



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Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
LSC8	Script Writing	1	-	-	Non-Credits			
		Examination Scheme						
		ISE1		ISE2		Attendance		Total
		20		20		10		50

Student will be evaluated after six sessions for 20 Marks (ISE1) and at the end of last session for 20 Marks (ISE2). Grade equivalent to 'D' (50%-59.99% Marks) or above is considered as 'Satisfactory'. If any of the tasks given is not completed/submitted/shown/evaluated then the corresponding lower grade will be given. Although the grades are given they will not mentioned in final grade card but they are necessary to declare the successful completion of the Non-Credit course.

Pre-requisite Course Codes	---	
After successful completion of the course, student will be able to		
Course Outcomes	CO1	Use correct script formats and layouts
	CO2	Demonstrate creativity with writing exercises
	CO3	Demonstrate their story telling skill through script
	CO4	Write a script with confidence

The most complex of all the arts is giving birth to an imaginary character. This course is introduced to build the foundations of script writing. This course shall provide students with a supportive environment that allows their natural story-telling talent to shine through. The course has an interactive and proactive narrative approach rather than focusing on theory. Students' own ideas and skills as a writer will be encouraged in a fun environment as part of the course.

This course will focus on how to brainstorm and develop your story. The students learn how to develop the story further using different tools of plotting, understanding the importance of structure, and focusing on how scenes are created and how they come together to function as one organic whole.



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Module No.	Topics	Hrs.
1	Introduction to script writing	2
2	Understanding and using 3 Act Structure	2
3	Developing Character	1
4	Plotting Structure, Scene and Its Functions	1
5	Structure, Scene and Its Functions	1
6	Step Outline	1
7	Dialogue Writing	2
8	The Conventional Format and Scriptwriting Software	2
9	Drafting a professional script	2
	Total	14



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Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
LSC9	Public Speaking	1	-	-	Non-Credits			
		Examination Scheme						
		ISE1		ISE2		Attendance		Total
		20		20		10		50

Student will be evaluated after six sessions for 20 Marks (ISE1) and at the end of last session for 20 Marks (ISE2). Grade equivalent to 'D' (50%-59.99% Marks) or above is considered as 'Satisfactory'. If any of the tasks given is not completed/submitted/shown/evaluated then the corresponding lower grade will be given. Although the grades are given they will not mentioned in final grade card but they are necessary to declare the successful completion of the Non-Credit course.

Pre-requisite Course Codes	---	
After successful completion of the course, student will be able to		
Course Outcomes	CO1	Apply the basic elements of the speech communication process
	CO2	Use tools and methods for controlling public speaking anxiety
	CO3	Prepare clear and impactful speech for various purposes, occasions and audiences
	CO4	Demonstrate a level of confidence and presence as a dynamic speaker

This course is used to remove public speaking as one of their biggest fears of a student. Good public speaking is more than a performance. It is the result of: Critical thinking, Well-organized narrative, Reasoning, Research and Preparation. In this course, methods that help to reduce anxiety, build confidence, and customize a process which will result in successful speaking experiences shall be taught. This course is designed to equip student with knowledge of the principles necessary for public speaking with an emphasis on organization, evidence, language use, strategy, delivery, ethics, and effective use of media aids.

Module No.	Topics	Hrs.
1	Introduction to Public Speaking: Types of Speeches and Speaking Occasions, Speaking Competencies	1
2	Informative Speaking: Functions of Informative Speeches, Role of Speaker and Developing Informative Speeches	1
3	Listening Effectively: Barriers to effective listening and Strategies to Enhance Listening. Organizing and Outlining Speech.	1



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4	Delivering Your Speech: Storytelling, Methods of Delivery, Vocal Aspects of Delivery, Nonverbal Aspects of Delivery, Mastering the Location, Preparation, Practice, and Delivery	1
5	Effective use of Visual Aids, Audience Analysis, Critical Thinking and Reasoning	1
6	Preparing Introductions, Attention-Getting Strategies and Composing the Conclusion	1
7	Persuasive Speaking: Choosing a Persuasive Speech Topic, Approaching Audiences, Persuasive Strategies and Organizing Persuasive Messages	2
8	Supporting Your Ideas with Personal and Professional Knowledge, Library Resources, Internet Resources, Evaluating Information, Citing Sources and Avoiding Plagiarism, Conclusion and Module Activities, Glossary and References, Using Statistics, Using Testimony and Using Examples	2
9	Using Language Well, Constructing Clear and Vivid Messages, The Importance of Ethical and Accurate Language, Avoiding Language Pitfalls, Ethics in Public Speaking and Speaking With Confidence	2
10	Making ideas compelling and memorable Illustrating and delivering your ideas Overcoming your fear of public speaking and developing great delivery	2
	Total	14



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Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
LSC10	Photography	1	-	-	Non-Credits			
		Examination Scheme						
		ISE1		ISE2		Attendance		Total
		20		20		10		50

Student will be evaluated after six sessions for 20 Marks (ISE1) and at the end of last session for 20 Marks (ISE2). Grade equivalent to 'D' (50%-59.99% Marks) or above is considered as 'Satisfactory'. If any of the tasks given is not completed/submitted/shown/evaluated then the corresponding lower grade will be given. Although the grades are given they will not mentioned in final grade card but they are necessary to declare the successful completion of the Non-Credit course.

Pre-requisite Course Codes		---
After successful completion of the course, student will be able to		
Course Outcomes	CO1	Create pictures through photography for impactful visual storytelling
	CO2	Demonstrate from the basics of how camera works to the correct techniques of setting in a typical mode.
	CO3	Demonstrate what makes photos come out brighter or darker and carry out field study to improve photographic skills
	CO4	Optimize the image with photo editing tools and use these images correctly to create engaging stories across social media platforms.

This course is for students who want to have a first approach to the world of digital photography, both indoors and outdoors, starting with the basics of photographic technique. The various photographic genres will be addressed by the portrait in studio and in a "household" - considering the use of tools and equipment available to the students - and the landscape, intended as a research of expression through special technical languages. Moreover reportage and a specific focus on street photography, bird, nature and wildlife photography. Approach would be to build possible photographic service, through exercises "in the field" and the introduction to topics of photo editing. The course shall end with a good story social media story created through clicked and edited photographs.



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Module No.	Topics	Hrs.
1	Introduction to Photography, Theory of Technique, The Camera, Picture Building, Lighting, Advanced Composition, Photographic Style, Photojournalism	2
2	Understanding how your digital camera works, Your Camera's Automatic and Assisted Settings, Your Camera's Manual Settings, Composition and Technique, Editing Images in Post	2
3	Reportage: shooting technique, street photography, planning and executing of the reportage, critical reading of the images, guided exercises outdoors	2
4	Field study through Nature and Landscape photos, Bird Photography and Wildlife Photography	2
5	Photo editing: introductory elements of photo editing, early approaches to the principles of image selection and construction of the photographic story, digital imaging and archiving	2
6	Photography for Social Media: Whether you're managing your personal or brand's online presence, using the right images is an essential part of telling your story through social media. While many of us these days carry around a camera, our phones, in our pockets every day, how many of us really know how to use it to create and share images that make an impact with social media audiences? This chapter would cover basics of digital marketing and would provide answers to following questions. What impact the images/style you use has on your brand's identity? How to create visual assets for social media that truly represent you/your brand? What you need to create engaging and impactful images: from iPhones to DSLRs? Lighting, focus and composition: from food to product to lifestyle images? How to optimise your images for social media? Editing software: explore available options and price points for improving the appearance of your photographs? How to develop a visual strategy for social media channels: explore the major social networks and how to best use them?	4
	Total	14



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Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
LSC11	Sketching	1	-	-	Non-Credits			
		Examination Scheme						
		ISE1		ISE2		Attendance		Total
		20		20		10		50

Student will be evaluated after six sessions for 20 Marks (ISE1) and at the end of last session for 20 Marks (ISE2). Grade equivalent to 'D' (50%-59.99% Marks) or above is considered as 'Satisfactory'. If any of the tasks given is not completed/submitted/shown/evaluated then the corresponding lower grade will be given. Although the grades are given they will not mentioned in final grade card but they are necessary to declare the successful completion of the Non-Credit course.

Pre-requisite Course Codes	---	
After successful completion of the course, student will be able to		
Course Outcomes	CO1	Use sketching as a means of communication
	CO2	Demonstrate skills of traditional sketching techniques
	CO3	Understand the role of sketching in creativity
	CO4	Apply knowledge of sketching for basic shapes required in product design

Sketching is about generating and communicating ideas. This course is intended for student who wishes to get better at sketching and recording information graphically. This course can teach student the fundamentals to developing sketching skills. This course focuses on using traditional materials, pencil and paper.

This course is also a great starting point for other areas of visual thinking, like graphic facilitation or sketchnoting. Students can self practice and learn to sketch user interfaces, user flows, UI animations and storyboards. Improving your sketching skills is going to be a great addition to your workflow as a UX, UI or product designer.



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Module No.	Topics	Hrs.
1	Understanding Sketching: The Psychology of Sketching. Defining Sketching. Orientation. Registration. Form. Line. Exploring Forms in space and time.	3
2	Basics of Sketching: Drawing materials and skills, Perspective terminology, Perspective drawing technique, creating grids, Ellipses and rotations, working with volume, drawing environments, Drawing wheeled vehicles, Sketching styles and mediums.	4
3	Sketching Techniques: Side View Sketches, Perspective Drawing, Simplifying Shape, Elementary Geometrical Shapes	4
4	Sketching for product design: Special attention for Ellipses, Rounding, Cross Sections, Ideation, Explanatory drawings, Surface and Textures, Emitting Light, Context. Basics of Digital sketching	3
	Total	14

References:

- 1) Sketching: Drawing Techniques for Product Designers by KoosEissen and Roselien Steur
- 2) Drawing for Product Designers (Portfolio Skills: Product Design) by Kevin Henry
- 3) How to Draw: Drawing and Sketching Objects and Environments by Scott Robertson
- 4) How to sketch : A Beginner's Guide to Sketching Techniques, Including Step By Step Exercises, Tips and Tricks by LironYanconsky



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Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
LSC12	Vehicle Maintenance and Traffic Rules	1	-	-	Non-Credits			
		Examination Scheme						
		ISE1		ISE2		Attendance		Total
		20		20		10		50

Student will be evaluated after six sessions for 20 Marks (ISE1) and at the end of last session for 20 Marks (ISE2). Grade equivalent to 'D' (50%-59.99% Marks) or above is considered as 'Satisfactory'. If any of the tasks given is not completed/submitted/shown/evaluated then the corresponding lower grade will be given. Although the grades are given they will not mentioned in final grade card but they are necessary to declare the successful completion of the Non-Credit course.

Pre-requisite Course Codes		---
After successful completion of the course, student will be able to		
Course Outcomes	CO1	Gain experience in conducting basic tune-ups, checking the vehicle's minor and major systems, including the electrical and cooling systems
	CO2	Become better, safer and more socially responsible road user

This course teaches students how to keep their vehicles running smoothly and obey traffic rules. This course includes lecture and hands-on sessions where students work on their own vehicles, learning where things are located and the basics of correcting problems.

Module No.	Topics	Hrs.
1	Fundamental of Vehicle Maintenance: Categories of vehicles.Lights and reflectors, checking oil, air-pressure in Tyres, changing tires, and conducting other simple tasks that keep vehicle functioning.	4
2	Safety and Tools: Overview of the tools that are used in the automotive field and the safety to be observed while using them as well.	2
3	Cooling System Overview: Working principle, Components of a Cooling System, Cooling System Maintenance and Repair, difference between Air conditioning and Engine coolants.	2
4	The driving test and Driving License: Categories of driving licenses, Basic information on how apply for your driving test, learner and full driving licenses, renewing your license, basic legal documents. The driving test.	2
5	Good driving practices: Safety belts, Other safety responsibilities, Overtaking, Changing traffic lanes, Reversing, U-turns, Driving at nightand Using a horn.	4



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	Traffic Signs and Road Marks, Traffic lights and signals, Speed Limits, Junctions and Roundabouts, Parking, Motorways and Tunnels, Factors that affect safe driving, Correct behavior at the scene of an accident, Penalty points, fixed charges and driving bans, Rules for motorcyclists, Respecting other road users.	
		Total 14

References:

- 1) The Maharashtra Motor Vehicles Rules, 1989
- 2) Motor Vehicle Department Maharashtra State, Learners License Test Question Bank
- 3) <http://www.trafficsigns.co.in/>
- 4) <https://www.carparts.com/classroom/coolingsystem.htm>



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Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
LSC13	Garden Design and Maintenance	1	-	-	Non-Credits			
		Examination Scheme						
		ISE1		ISE2		Attendance		Total
		20		20		10		50

Student will be evaluated after six sessions for 20 Marks (ISE1) and at the end of last session for 20 Marks (ISE2). Grade equivalent to 'D' (50%-59.99% Marks) or above is considered as 'Satisfactory'. If any of the tasks given is not completed/submitted/shown/evaluated then the corresponding lower grade will be given. Although the grades are given they will not mentioned in final grade card but they are necessary to declare the successful completion of the Non-Credit course.

Pre-requisite Course Codes	---	
After successful completion of the course, student will be able to		
Course Outcomes	CO1	Demonstrate an understanding of garden site
	CO2	Gain some proficiency in basic garden design principles
	CO3	Layout a rough site plan overview of your garden design
	CO4	Demonstrate sensitivity towards environment by his or her actions

This course offers knowledge of the basics of gardening, how to design a garden and how to care for different types of plants. This course provides you an opportunity to design your own garden. Topics ranging from understanding soil types, selection of plants to caring for various flowers e.g. rose cultivation, are covered. Uses of fertilizers, the compositions of compounds that different types of plants require are taught in the course. The course largely benefits those in an urban setting as it also teaches indoor gardening as well as managing outdoor gardening. This course also teaches care for plants in greenhouses as well as the basics of the Nursery business, which included financial planning and production of flowers. In an age of inorganic farming where organic products are becoming costlier day by day, the course also teaches managing plants yielding vegetables, fruits and herbs. With this basic knowledge, in future, you can turn your hobby and passion into a money-making opportunity by starting your own gardening company.

Students can be taken to Nursery, Farm or Green house for demonstration purpose.

Students are expected to complete their exercises in the beautiful garden available Bhavan's campus.



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Module No.	Topics	Hrs.
1	How plants work? Gardening Basics.	2
2	Garden Design Process, Site assessment, Designing Your Garden: Effective use of space, finalizing garden layout plan, creating a planting plan, choosing & buying plants	2
3	Secrets of Great Soil, Plant Selection & Care and Plant Knowledge	2
4	Low Maintenance Gardens/Planting, Vegetable and Herb Gardens	2
5	Sustainability, Garden Maintenance, Equipment, Pest Control	2
6	Running your own Gardening Business, Marketing and Social Media, Health and Safety, Insurance, Tax and Record Keeping	2
7	Put Up Garden Fencing, Turf a garden / lay a lawn and Laying artificial grass areas	2
	Total	14