



शैक्षणिक विभाग
गणेशखिंड, पुणे-४११ ००७
दुरध्वनी क्र.: ०२०-२५६२११६०
ई-मेल : boards@pun.unipune.ac.in
संकेतस्थळ : www.unipune.ac.in

सावित्रीबाई फुले पुणे विद्यापीठ
(पूर्वीचे पुणे विद्यापीठ)

Savitribai Phule Pune University
(Formerly University of Pune)

Academic Unit
Ganeshkhind, Pune-411 007
Phone : 020-25621160
E-mail : boards@pun.unipune.ac.in
Website : www.unipune.ac.in

जावक क्र.: सीबीआय/ ४५१

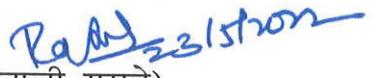
दिनांक: २३/०५/२०२२

परिपत्रक क्र. १३५ / २०२२

विषय:- सावित्रीबाई फुले पुणे विद्यापीठाच्या क्रीडा व शारीरिक शिक्षणशास्त्र विभागात Certificate Course in Outdoor Rescue and Disaster Management हा तीन महिन्याचा नवीन प्रमाणपत्र अभ्यासक्रम व त्याच्या आराखडयास शैक्षणिक वर्ष २०२२-२०२३ पासून मान्यता देणेबाबत.

विद्यापीठ अधिकार मंडळाने घेतलेल्या निर्णयानुसार कळविण्यात येते की, सावित्रीबाई फुले पुणे विद्यापीठाच्या क्रीडा व शारीरिक शिक्षणशास्त्र विभागात Certificate Course in Outdoor Rescue and Disaster Management हा तीन महिन्याचा नवीन प्रमाणपत्र अभ्यासक्रम व त्याच्या आराखडयास शैक्षणिक वर्ष २०२२-२०२३ पासून नव्याने प्रस्थापित करण्यास मान्यता देण्यात येत आहे.

मा. विभागप्रमुख, क्रीडा व शारीरिक शिक्षणशास्त्र विभाग, सावित्रीबाई फुले पुणे विद्यापीठ यांना विनंती की, सदर परिपत्रकाचा आशय सर्व संबंधितांच्या निदर्शनास आणून दयावा.


(डॉ.मुंजाजी रासवे)
उपकुलसचिव

प्रत माहितीसाठी व पुढील योग्य त्या कार्यवाहीसाठी:-

१. मा. अधिष्ठाता, आंतरविद्याशाखीय अभ्यास विद्याशाखा, प्रस्तुत विद्यापीठ
२. मा. प्राचार्य, सर्व संलग्न महाविद्यालय
३. मा. संचालक, परीक्षा व मूल्यमापन मंडळ, प्रस्तुत विद्यापीठ
४. मा. संचालक, स्पर्धा परीक्षा केंद्र, प्रस्तुत विद्यापीठ
५. मा. संचालक, (आंतरराष्ट्रीय केंद्र), प्रस्तुत विद्यापीठ
६. मा. संचालक, माहिती तंत्रज्ञान सेवा, प्रस्तुत विद्यापीठ
७. मा. प्रमुख, विद्यापीठ उपकेंद्र :अहमदनगर, नाशिक.
८. मा. उपकुलसचिव, शैक्षणिक प्रवेश विभाग, प्रस्तुत विद्यापीठ
९. मा. उपकुलसचिव, (संलग्नता कक्ष), प्रस्तुत विद्यापीठ
१०. सहायक कुलसचिव (प्र-कुलगुरू कार्यालय), प्रस्तुत विद्यापीठ
११. सहायक कुलसचिव, शैक्षणिक पात्रता विभाग, प्रस्तुत विद्यापीठ

मा. विद्यापरिषद ठराव क्र. - ब ४३ पीए/४३/२०२२ दि. ९.०४.२०२२
टिपणी क्र.: व्हीसी २१६१/दि. १६ मे, २०२२

मा. संचालक



Savitribai Phule Pune University

(formerly University of Pune)

Department of Physical Education

Under the

Faculty of Inter-disciplinary Studies

Certificate Course in

Outdoor Rescue and Disaster Management

(C. C.O.R. & D.M.)

Credit System

2022 - 2023

Certificate Course in Outdoor Rescue and Disaster Management

GENERAL OBJECTIVES OF THE COURSE:-

- To develop a confident society which will be skilled in Rescue -Relief works and is armed with practical training of Disaster Management
- To create awareness about safe adventure and to strengthen the adversity quotient of the society to make them able to tackle crisis effectively.
- To introduce potential employable opportunities in Maharashtra, India, and abroad in the adventure sector through vocational skills, certificate, & degree programme syllabi
- To incorporate experiential education through outdoor sports as per the 'New Education Policy 2020' by MHRD, Gov. of India.

DURATION OF THE COURSE:-

The duration of the course shall be of Three months (180 hours). Each working Day shall consist of Three hours of theory and practical work. Course Timings -3.00 pm to 6.00 pm (on all working days of the week except University holidays and Alternate Saturday full day. (Theory Part-90 hours and Practical -90 hours)

ELIGIBILITY FOR ADMISSION:-

- ❖ Minimum XII Std. or equivalent examination passed from Govt. Board
- ❖ **Age Limit :-** 18 to 45 Years (Both inclusive)
- ❖ **Intake Capacity :-** 40 Students
- ❖ **Fitness Eligibility:-** Good fitness with no limitations for physical activities and exercises.
- ❖ **Medical Test:-** Candidates should be medically fit and sound provided other conditions of admissions are fulfilled.

COURSE FEE:-

Category		Fees to be paid
A	Indian Nationals	Rs.45000/- (Rupees Forty Five Thousand only)
B	International Candidates	Rs. 90,000/- (Rupees Ninety Thousand Only)

Note: Expenses such as Travel, Accommodation for examinations/admission process, Travel cost for practical training or any other cost over the tuition fees will be at actual. It will be decided at the beginning of the course as per location, season, and logistical requirements.

MEDIUM OF INSTRUCTION AND EXAMINATION:-

Medium of instruction will be in Marathi and /or English and question papers shall be set in English.

ELIGIBILITY FOR APPEARING AT CERTIFICATE COURSE IN OUTDOOR RESCUE AND DISASTER MANAGEMENT EXAMINATION:-

Student should have at least 75% Attendance during the Course. He / She should complete all the practical and other related work expected in all parts of the syllabus. A student who misses more than 25% of the scheduled classes will not be allowed to appear for the exam.

GENERAL INSTRUCTIONS :-

- The **Certificate Course in Outdoor Rescue and Disaster Management (C. C. O. R. & D. M.)** consists of **12 credits**.
- One credit will be equivalent to 15 clock hours of student-teacher contact.
- Details of the theoretical and practical components are given in the structure of the program.
- Internal evaluation will follow Continuous Comprehensive Evaluation procedures. Internal evaluation should be done on every credit of each course or minimum two per course as decided by the teacher concerned.

RULES & REGULATIONS:-

The **Certificate Course in Outdoor Rescue and Disaster Management (C. C. O. R. & D. M.)** will be awarded to a student who completes a total of 12 credits.

Each course will have

- 50 % of marks for Final Examination
- 50 % marks for Internal Assessment

Each core unit will have an Internal (continues) assessment of 50 % of marks and a teacher may select a minimum of two of the following procedures:

- Written Test
 - Lecture / Library Notes
 - Seminar Presentation
 - Short Quizzes
 - Assignments
 - Field Work
- To pass a student shall have to get minimum aggregate 30% marks in each head of passing (i.e. internal assessment and final examination) and minimum aggregate 40% marks in each course.
 - Internal assessment answer book may be shown to the students concerned but not the final examination answer scripts.
 - While marks will be given for all examinations, they will be converted into grades. The final grade sheets and transcripts will have only grades and grade-points average.
 - To pass a student shall have to get minimum aggregate 40% marks (E and above on grade point scale) in each course.
 - The system of evaluation will be as follows: Each assignment/ test will be evaluated in terms of marks. The marks for separate assignment and the final examination will be added together and converted into a grade and later grade point average. Results will be declared after the final examination which will give grades, grade point average and the Final Grade.

EVALUATION SCALE FOR INDIVIDUAL SUBJECT:-

<u>Percent</u>	<u>Grade</u>	<u>Grade Points</u>
80 to 100	O : Outstanding	10
70 to 79	A + : Excellent	09
60 to 69	A : Very Good	08
55 to 59	B+ : Good	07
50 to 54	B : Above Average	06
45 to 49	C : Average	05
40 to 44	P : Pass	04
00 to 39	F : Fail	00
--	Ab : Absent	00

The formula for conversion of Grade point average (GPA) into the final grade

09.00	-	10.00	-	O
08.50	-	08.99	-	A+
07.50	-	08.49	-	A
06.50	-	07.49	-	B+
05.50	-	06.49	-	B
04.25	-	05.49	-	C
04.00	-	04.24	-	P
00.00	-	03..99	-	F

$$\text{CGPA} = \frac{\sum (\text{Grade Points X Credits})}{\sum (\text{Earned Credits})}$$

**STRUCTURE OF CERTIFICATE COURSE IN OUTDOOR RESCUE AND DISASTER
MANAGEMENT**

'Certificate Course in Outdoor Rescue and Disaster Management' shall be of 600 marks as follows:

Part	Subject Code	Subject Name	Hours	Credits
I Theory	CMT-1	Disaster Management - I	30	02
	CMT-2	First Aid , Search & Rescue - I	30	02
	CMT-3	Soft Skills, Health Science & Technical Skills - I	30	02
	Total Part-I		90	06
II Practical	CMT-4	Disaster Management – II (Practical)	30	02
	CMT-5	First Aid , Search & Rescue – II (Practical)	30	02
	CMT-6	Soft Skills, Health Science & Technical Skills – II (Practical)	30	02
	Total Part-II		90	06
Total Course			180	12

SYLLABUS

CMT - 1

Disaster Management - I

Credit	Topics	Content
1	Disaster Management - 1	<ul style="list-style-type: none">• What is Disaster• Types of Disaster• Classification & Characteristics• Impact
2	Disaster Management - 2	<ul style="list-style-type: none">• How to mitigate• National & Regional Policies• Management, Assessment, Recovery, Rehabilitation

CMT – 2

First Aid , Search & Rescue

Theory - I

Credit	Topics	Content
1	First Aid	<ul style="list-style-type: none">• Fundamentals for First Aid• CPR, Clearing Air way (Log roll & gutter, Chin lift etc.)• Wound management: cleaning, different types of Bandaging, Suturing• Fracture management: Immobilisation, Splints• Treatment for stings & bites: Snake, Insects, Scorpion• Administering Life saving injection (Intra muscular & Intra Venous)• Medical issues: Hypoglycemia, dehydration, shock etc.• Use of Pulse Oxymeter and supplementary oxygen
2	Search & Rescue	<ul style="list-style-type: none">• Introduction to Anchoring Systems• Safety equipment and regular checking• Subjective and Objective Hazards• Assessment of Hazards• Use of various types of stretchers (e.g. hard board stretcher for backbone fracture etc.)• Patient moves: techniques of safely moving a patient from ground to stretcher• Securing patient on stretcher with rope/sling• Improvised stretcher• Stretcher carriage on rough terrain

CMT - 3

Soft Skills, Health Science & Technical Skills Theory – I

Credit	Topics	Content
1	Communication & Effective Planning and Execution	<ul style="list-style-type: none"> ● Use of satellite phone and portable Radio set ● Visual and audio signals ● Distress signals ● Procedure of communicating with authorities (police district administration etc.) and rescue team ● Articulation of thoughts & speech ● Effective presentation through experience sharing (articles, ppt, short film blogging/vlogging) ● Learn to plan outdoor activity with every details ● Reconnaissance of the destination ● Logistical challenges during planning ● Practical difficulties during execution ● Debriefing and report making of the event
2	Knots & Equipment Outdoor Backpacking Technical Skills	<ul style="list-style-type: none"> ● Know the types of knots ● Methods of tying knots ● Introduction to personal safety gears ● Trekking & Rock-Climbing gears ● Equipment standards, Norms, & governing body ● Backpacking essentials ● Outdoor Camping ● Precautions and preparation for tent pitching ● Outdoor Clothing ● Survival Skills & Navigation ● Rock Climbing ● Belay Skills ● Rappel & Jumar Skills

CMT - 4

Disaster Management - II (Practical)

Credit	Topics	Content
1	Disaster Management-3	<ul style="list-style-type: none">• Drills in Disaster Management with Demonstration• Case Studies and analysis
2	Disaster Management-4	<ul style="list-style-type: none">• Field Visit to organizations such as NDRF• Field visit to the disaster Impacted regions

CMT - 5

First Aid , Search & Rescue – II (Practical)

Credit	Topics	Content
1	First Aid	<ul style="list-style-type: none">● Identifying the casualty● Providing the ABC of first aid● Immobilization skills● Handling wounds, bites, burns● Casualty carrying techniques● Casualty coil making● Treatment in illness● Bandaging● CPR skills
2	Search & Rescue	<ul style="list-style-type: none">● Rope Knots & Friction Hitches used in Rescue● Use of tape sling & tape knots● Z-pulley, Double pulley systems (Petzl Gemini)● Assisted method (one man rescue)● Face Rescue● Cliff Rescue● Chimney Rescue● Carriage of Casualty● Instant Tyrolean traverse● River Crossing Techniques & Casualty Evacuation● Casualty evacuation through Suspension and Tyrolean traverse● Use of shrubs for anchor

CMT - 6

Soft Skills, Health Science & Technical Skills – II (Practical)

Credits	Topics	Content
1	Communication	<ul style="list-style-type: none"> ⑩ Effective presentation through experiencesharing (articles, ppt, short film blogging/vlogging) ⑩ Collaborate in group activities to develop mutual trust, accountability, and team goal-orientedwork
	Effective Planning & Execution	<ul style="list-style-type: none"> • Learn to plan outdoor activity with everydetails • Reconnaissance of the destination • Logistical challenges during planning • Practical difficulties during execution • Debriefing and report making of the event
	Documentation	<ul style="list-style-type: none"> • Critically analyze the subjects and madeetailed documentation of the subject. • Use various tools – AV/ PPT/ Story tellingto demonstrate learning
2	Knots & Equipment	<ul style="list-style-type: none"> • Demonstrations: knots • Rope Coil – Butterfly, Casualty • Introduction to personal safety gears
	Outdoor Camping, Backpacking	<ul style="list-style-type: none"> • Learn to pitch tent • Learn how to pack your backpack efficiently • Navigation skills
	Rock Climbing	<ul style="list-style-type: none"> • Types of hand & foot holds • Three-point technique • Top Rope Climbing
	Rappelling & Jumaring And Belaying	<ul style="list-style-type: none"> • Perform and master the art of rappelling and jumaring • Learn various techniques of rappelling & jumaring in various scenarios • Different belay devices • Different belay types • Introduction to station belay , body belay etc.

Books for Reference

- Eng, R. C., & Van Pelt, J. (Eds.). (2010). Mountaineering: The freedom of the hills. Mountaineers Books.
- Long, J. (2010). How to rock climb!. Rowman & Littlefield.
- Youngblood, G. S., & Baumgartner, G. J. (2000). Climbing anchors. U.S. Patent No. 6,119,993. Washington, DC: U.S. Patent and Trademark Office.
- Donahue T. (2016). Advanced Rock Climbing: Expert Skills and Techniques (Mountaineers Outdoor Experts). Mountaineers Books.
- Cosley, K., & Houston, M. (2004). Alpine climbing: Techniques to take you higher. The Mountaineers Books.
- Tyson, A., & Loomis, M. (2006). Climbing Self-rescue: Improvising Solutions for Serious Situations. The Mountaineers Books.
- Bob Gaines B., & Martin J. D. (2014). Rock Climbing: The AMGA Single Pitch Manual (How To Climb Series). Falcon Guides; First edition.
- Chauvin, M., & Coppolillo, R. (2017). The Mountain Guide Manual: The Comprehensive Reference--From Belaying to Rope Systems and Self-Rescue. Rowman & Littlefield.
- Young Zingaroo, सांगाती सह्याद्रीचा(Marathi Edition)
- Anand Palande, डोंगरयात्रा (Marathi Edition)
- Anand Palande, चढाई उतराई (Marathi Edition)
- Disaster Management and Preparedness - Future Challenges and Opportunities
- National Hazards - Disaster Management
- Disaster Management Handbook