

"Dissemination of Education for Knowledge, Science and Culture" -Shikshanmaharshi Dr. Bapuji Salunkhe



Shri Swami Vivekanand Shikshan Sanstha's

VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

(Affiliated to Shivaji University, Kolhapur)

Policy:

Field Projects

(for B.A., B.Com., B.Sc. and all Non-AICTE professional UG degree courses)

(apply to academic session 2023-24 onwards)

Sr.	Name of Faculty	Designation	Signature		
No.	NED 20	20 Implementation Call			
	NEP-2020 Implementation Cell				
1	Dr. R. R. Kumbhar	Chairman Principal, Vivekanand College, Kolhapur (Empowered Autonomous)			
2	Dr. Shruti Joshi	Member IQAC Co-ordinator			
3	Dr. C. B. Patil	Nodal Officer NEP-2020			
4	Mr. S. P. Thorat	Member Senior Faculty			
5	Dr. A. S. Kumbhar	Member Dean, Science			
6	Dr. S. R. Kattimani	Member Dean, Arts			
7	Mr. Sunny Kale	Member Dean, Commerce			
8	Dr. Rajashree Y. Patil	Member Dean, Professional Courses			
9	Dr. G. J. Navathe	Member CoE			
10	Dr. D. R. Tupe	Member Dy. CoE			
11	Dr. S. S. Ankushrao	Member Staff Secretary, Science			
12	Dr. K. S. Patil	Member Staff Secretary, Arts & Commerce			

In order to effectively implement Field Project activities in the departments of this college, a NEP-2020 Implementation Cell was formed as follows to prepare the policy document.

The said committee has prepared a report on the Field Project activity policy to be implemented in the departments of this college after studying the Field Project activity guidelines and procedures received from the University Grants Commission and the Department of Higher and Technical Education of the Government of Maharashtra. The draft of the said policy is attached herewith.

Shri Swami Vivekanand Shikshan Sanstha's Vivekanand College, Kolhapur (Empowered Autonomous)

Policy: Field Projects

1. Introduction:

Field projects involve going out into the real world, collecting data, conducting research, or implementing solutions to actual problems faced by communities or organizations.

The significance of the field project can be appreciated from the fact that it is an opportunity for the students to put into practice the knowledge gained during the entire first and second year. It will help to observe how the principles and concepts are practiced in the workplace. Field project will provide possible opportunities to learn, understand and sharpen the real time technical / managerial skills required at the job / project and will give exposure to the current technological developments relevant to the subject area of training.

The experience gained from the field project will be used in classroom discussions. It will also help the students to identify their areas of interest and various career prospects which will help them to get prepared accordingly.

2. Objectives:

- 1) To connect to real-world issues
- 2) To enhance skills from problem-solving
- 3) To boost skills from communication and teamwork

3. Framework of Field Project:

- The course shall be compulsory for academic programmes across faculty and disciplines in the college. It shall be incorporated in the course structure as per the decision of the academic dean of the discipline and subject to approval by the Academic Council of the college.
- 2) Participation of students in Field Project shall earn those credits and it shall be integrated into their evaluation.

Credit structure

 Field Project shall be for 2 credit, i.e. 45 hours. 1 credit shall be reserved for Classroom (15 hours) and 1 credit (30 hours) for Field Engagement. It shall be compulsory for all students.

4. Evaluation

- 1) The evaluation structure of Field Project shall be decided discipline wise and approved by the Academic Council.
- 2) The students shall submit project report of their Field Project at the end of the course individually or in group.
- Students shall be assessed by the departments at departmental level on the basis of project reports and/or level and skill of engagement by each student. The departments shall submit marks to the Examination Centre.

Sr.	Parameters	Marks distribution	
No.		UG students	UG students
		(2 credit course)	(2 credit course)
		For 25 Marks	For 50 Marks
1	Problem finding (समस्या शोधणे)	3	5
2	data collection (डेटा संग्रह)	3	5
3	implementing solutions to actual problems (वास्तविक समस्यांवर उपाय योजना राबवणे)	10	20
4	Quality and effectiveness of presentation (सादरीकरणाची गुणवत्ता आणि परिणामकारकता)	5	10
5	Field Project Report (क्षेत्र प्रकल्प अहवाल)	4	10
	Total marks	25	50

5. Recommended category wise Field Project activities

Science

- 1. Monitor local water quality and assess pollution sources
- 2. Analyze plant diversity and its impact on soil health
- 3. Conduct surveys to understand human-wildlife interactions
- 4. Track climate change effects on specific ecosystems
- 5. Develop sustainable waste management solutions for rural communities
- 6. Astrophysics and Cosmic Phenomena
- 7. Quantum Mechanics and Applications
- 8. Photonics and Laser Technology

Electronic Science:

- 1. Wireless Power Transfer for Electric Vehicles
- 2. Smart Home Automation System Using IoT
- 3. Smart Agriculture System with IoT Integration
- 4. Automated Traffic Signal Controller with Real-Time Adjustment
- 5. Design of a Smart Helmet for Accident Detection
- 6. Robotics and Artificial Intelligence in Science

Chemical Science:

- 1. Green Chemistry and Sustainable Synthesis
- 2. Polymer Science and Material Design
- 3. Chemical Process Optimization
- 4. Analytical Chemistry and Instrumentation
- 5. Biochemical Engineering and Biotechnology
- 6. Chemical Safety and Hazard Assessment
- 7. Environmental Chemistry and Analysis

Computer Science and Information Technology:

- 1. Machine Learning and Deep Learning Applications
- 2. Block chain and Crypto currency Technologies
- 3. Artificial Intelligence and Robotics
- 4. Cyber security and Network Defense
- 5. Big Data Analytics and Data Science
- 6. Cloud Computing and Distributed Systems
- 7. Computer Vision and Image Processing

Mathematics and Statistics:

- 1. Number Theory and Cryptography
- 2. Statistical Analysis and Data Modeling
- 3. Differential Equations and Mathematical Modeling
- 4. Graph Theory and Network Analysis
- 5. Mathematical Logic and Set Theory
- 6. Probability Theory and Stochastic Processes
- 7. Geometry and Topology
- 8. Mathematics in Finance and Actuarial Science

Biological Sciences:

- 1. Biodiversity Conservation and Ecosystem Management
- 2. Microbiome Analysis and Human Health
- 3. Drug Discovery and Pharmacological Studies
- 4. Molecular Biology and Genetic Engineering
- 5. Cancer Biology and Targeted Therapies
- 6. Neuroscience and Brain Mapping
- 7. Climate Change Adaptation in Plants

Biotechnology:

- 1. Biopharmaceutical Production and Quality Control
- 2. Cell Culture and Tissue Engineering
- 3. Bioinformatics and Computational Biology
- 4. Biological Data Mining and Genomics
- 5. Biotechnology in Agriculture and Food Production

Environmental and Earth Sciences:

- 1. Climate Change Mitigation and Adaptation
- 2. Natural Resource Management and Sustainability
- 3. Geospatial Analysis and GIS Applications
- 4. Soil and Water Quality Assessment
- 5. Ecological Modeling and Conservation
- 6. Oceanography and Marine Biology
- 7. Atmospheric Chemistry and Air Quality
- 8. Hydrology and Watershed Management

Social Sciences

- 1. Assess access to education and propose improvements in underprivileged areas.
- 2. Document cultural traditions and practices facing preservation challenges.
- 3. Analyze the impact of social media on mental health in specific communities.
- 4. Evaluate the effectiveness of government programs for poverty reduction.
- 5. Explore economic opportunities and challenges in developing regions.

Business & Technology

- 1. Research consumer preferences and behaviors in emerging markets.
- 2. Analyze the impact of new technologies on specific industries or communities.
- 3. Develop digital solutions to improve healthcare access in underserved areas.
- 4. Assess the effectiveness of marketing campaigns for local businesses.
- 5. Evaluate the feasibility of renewable energy implementation in specific regions.

Arts & Humanities

- 1. Conduct oral history interviews to document personal experiences.
- 2. Preserve and restore historical landmarks or cultural artifacts.
- 3. Develop educational programs using local arts and heritage.
- 4. Analyze the impact of globalization on cultural identity.
- 5. Analyze the impact of tourism on local culture and environment.
- 6. Create a documentary film highlighting a local issue or story.