

From:

Rudresh Uttam Mhamal

Assistant Professor Department of Commerce

Vidya Prabodhini College of Commerce, Education, Computer and Management

Parvari-Goa

22<sup>nd</sup> July 2022

To

The Principal

Vidya Prabodhini College of Commerce,

Education, Computer and Management Parvari-Goa

Sub: Short term certificate course in "Rain Water Harvesting"

Respected Sir,

I the undersigned wish to organise a short term certificate course in Rain Water Harvesting as a part of skill based entrepreneurship initiative of Commerce Department of our College. The detail proposal for the course along with the list of suggested resource persons is attached herewith for your reference.

Kindly do the needful.

Thanking you,

Yours faithfully.



Rudresh U. Mhamal

(Assistant Professor Department of Commerce)

— IQAC — for scrutiny and remarks.



22-07-2022

— May be Conducted

  
IQAC-coordinator

**Prabodhan Education Society's**  
**Vidya Prabodhini College of Commerce, Education, Computer and Management,**  
**Parvari Goa.**

**EVENT PROPOSAL**

**Name of the Event:** Certificate course in Rain Water Harvesting

**Name of the Event Co-ordinator:** Mr. Rudresh Mhamal

**Academic Year:** 2022-2023

**Type of the Event:** Course

**Mode of Event:** Offline

**Date of Event:** 20<sup>th</sup> October to 30<sup>th</sup> October 2022

**Duration** : 30 hours Course

**Details about the external Collaborating/Associating agencies**

**Name of the collaborating agency:** Dhavrukh

**Address:** Madhalamaj Mandre Pedne Goa

**Nature of the Collaboration :** MOU

**Details of Collaboration:** Providing Recourse Persons

**Resource Persons' Details**

**Name of the Resource person:** Raviraj Pednekar

**Institutional Affiliation:** Secretary, Dhavrukh

**Any other details:**

**Name of the Resource person:** Vasant Narulkar

**Institutional Affiliation:** Member, Dhavrukh

**Any other details:**







## Budget

Proposed registration fee to be collected from delegates

Sr. No.	Delegates	Amt. (₹) per person
1	Student and Research Scholar	0
2	Local Delegate	0
3	National Delegate	0
4	International Delegate	0
5	Institutional Delegate	0

## Proposed sources of Funds

Sr. No.	Particulars	Amount (₹)
1	Registration fee:	0
2	Sponsorship:	0
3	Support from funding agencies/ departments/ institutions:	0
	<b>TOTAL Funds in Rupees</b>	<b>00</b>

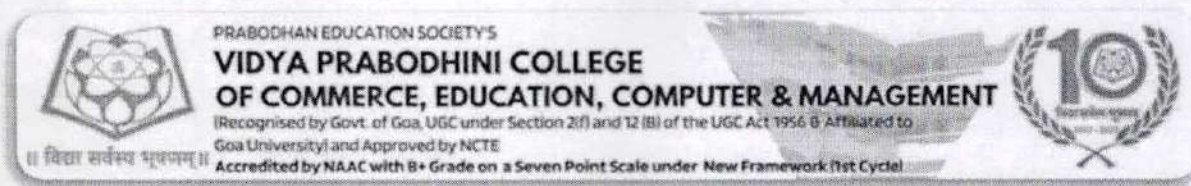
## Proposed Expenditure

Sr. No.	Particulars	Amount (₹)
1	Hall/Venue Booking	0
2	Remuneration/Honorarium	0
3	Accommodation	0
4	Local Conveyance	0
5	Food and Refreshments	0
6	Travelling Expenses	0
7	Printing, Stationary, Seminar Kit, Stage decoration etc.	0
8	Miscellaneous	0
	<b>TOTAL Expenditure in Rupees</b>	<b>0</b>

*[Handwritten Signature]*







## SYLLABUS

### Short-Term Certificate Course RAINWATER HARVESTING AND GROUNDWATER RECHARGING

**DURATION:** 30 Hours (10 sessions of approximately 3 hours each)

**ELIGIBILITY:** Open to all

**COURSE COORDINATOR:** Rudresh Uttam Mhamal (Assistant Professor in Commerce)  
mhamal88@gmail.com 8788807952

**MEASURABLE LEARNING OUTCOMES:**

After successful completion of this course, participants will be able to:

- Define key rainwater harvesting concepts, terms, and principles
- Assess a site for rainwater harvesting potential and water uses
- Make strategic decisions about what features and systems to use for a site
- Design a conceptual integrated rainwater harvesting plan for a site VPC-2103202
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- Refine a conceptual rainwater harvesting plan with relevant systems details

#### Course Outline

Day 1	Rainwater Harvesting Principles
<b>Learning Outcomes</b>	<ul style="list-style-type: none"> <li>• Define key rainwater harvesting concepts and terms.</li> <li>• Understand rainwater harvesting principles.</li> <li>• Identify regulations that may affect rainwater harvesting on-site.</li> </ul>
<b>Assignments</b>	<ul style="list-style-type: none"> <li>• Introduce yourself on the Discussion Board</li> <li>• Choose a course design site.</li> <li>• Complete the Rainwater Harvesting Course Report</li> </ul>





<b>Method of Instruction</b>	<ul style="list-style-type: none"> <li>• Readings</li> <li>• Video Lectures</li> <li>• Discussion</li> <li>• Mapping Exercise</li> </ul>
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<b>Day 2 &amp; 3</b>	<b>Site Analysis for Rainwater Harvesting</b>
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<b>Learning Outcomes</b>	<ul style="list-style-type: none"> <li>• Analyze a map to identify the watershed of a site.</li> <li>• Identify the runoff coefficient from different surfaces.</li> <li>• Identify water entry and exit points on a site.</li> <li>• Calculate rainwater runoff volumes from different areas and surfaces.</li> <li>• Calculate interior water uses.</li> </ul>
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<b>Assignments</b>	<ul style="list-style-type: none"> <li>• Complete the Rainwater Harvesting Course Report</li> <li>• Post a link to your RWH Report on the Discussion Forum</li> </ul>
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<b>Method of Instruction</b>	<ul style="list-style-type: none"> <li>• Readings</li> <li>• Video Lectures</li> <li>• Discussion</li> <li>• Mapping and Calculation Exercises</li> </ul>
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<b>Day 4 &amp; 5</b>	<b>Rainwater Harvesting Systems</b>
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<b>Learning Outcomes</b>	<ul style="list-style-type: none"> <li>• Identify rainwater harvesting resource opportunities on a design site.</li> <li>• Determine the most effective water harvesting strategies for locations on a design site.</li> <li>• Calculate potential rainwater resources for specific locations.</li> </ul>
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<b>Assignments</b>	<ul style="list-style-type: none"> <li>• Complete the Rainwater Harvesting Course Report</li> <li>• Post a link to your RWH Report on the Discussion Forum</li> </ul>
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<b>Method of Instruction</b>	<ul style="list-style-type: none"> <li>• Readings</li> <li>• Video Lectures</li> <li>• Discussion</li> <li>• Mapping and Calculation Exercises</li> </ul>
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<b>Day 6 - 8</b>	<b>Rainwater Harvesting Design</b>
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<b>Learning Outcomes</b>	<ul style="list-style-type: none"> <li>• Understand the movement of the sun throughout the year and its impact on a site.</li> <li>• Gain familiarity with standard methods and materials for system design.</li> <li>• Define the integrated design principles.</li> </ul>
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<b>Assignments</b>	<ul style="list-style-type: none"> <li>• Complete the Rainwater Harvesting Course Report</li> <li>• Post a link to your RWH Report on the Discussion Forum</li> </ul>
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<b>Method of Instruction</b>	<ul style="list-style-type: none"> <li>• Readings</li> <li>• Video Lectures</li> <li>• Discussion</li> <li>• Mapping and Calculation Exercises</li> </ul>
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<b>Day 9 - 10</b>	<b>Integrated Design Systems</b>
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<b>Learning Outcomes</b>	<ul style="list-style-type: none"> <li>• Design rainwater harvesting collection and distribution system.</li> <li>• Size rainwater flow features throughout the design.</li> <li>• Comprehend the potential community impacts of rainwater harvesting design.</li> </ul>
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<b>Assignments</b>	<ul style="list-style-type: none"> <li>• Complete the Rainwater Harvesting Course Report</li> <li>• Post a link to your RWH Report on the Discussion Forum</li> </ul>
<b>Method of Instruction</b>	<ul style="list-style-type: none"> <li>• Readings</li> <li>• Video Lectures</li> <li>• Discussion</li> <li>• Mapping and Calculation Exercises</li> </ul>



*S. A. M. Q.*



विद्या सर्वस्य भूषणम्

PRABODHAN EDUCATION SOCIETY'S

# VIDYA PRABODHINI COLLEGE

OF COMMERCE, EDUCATION, COMPUTER & MANAGEMENT, PARVARI – GOA  
(Recognized by Govt. of Goa, Affiliated to Goa University and Approved by NCTE)

(Recognized by U.G.C under Section 2(0) and 12 (B) of the UGS Act 1956)

Accredited by NAAC with B+ Grade on a Seven Point Scale Under New Framework (1" Cycle)

Vidya Prabodhini College of Commerce, Education,

Computer & Management

in association with

DHAVRUKH

ORGANISES

Short Term Certificate Course on

**"RAINWATER HARVESTING AND  
GROUNDWATER RECHARGE"**

**FROM:**

**20/10/2022 - 30/10/2022**

**Duration : 30 hours**

**Shri. Rudresh U. Mhamal**

President  
DHAVRUKH

**Dr. Bhushan Bhawe**

Principal,  
VPCCECM, Parvari - Goa



**NOTICE**  
**(2022-23)**  
**(STUDENTS)**

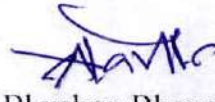
This is to inform all the students that a Certificate Course in 'Rain Water Harvesting' will be organised by the Vidya Prabodhini College under the aegis of IQAC. The inaugural function is scheduled on 20<sup>th</sup> October 2022 at 02:00 p.m. in the F.Y.B.Com. (A) classroom. This course has a maximum enrolment of 25 students.

All interested students are requested to kindly take note of the same.

Date: 3<sup>rd</sup> October 2022

  
(Ms. Rudresh Mhamal)  
Co-ordinator



  
(Dr. Bhushan Bhawe)  
Principal

Class	Sign	Class	Sign
F.Y.B.Com. A		F.Y.B.A. B.Ed. A	
F.Y.B.Com. B		F.Y.B.A. B.Ed. B	
S.Y.B.Com. A		S.Y.B.A. B.Ed. A	
F.Y.B.Com. B		S.Y.B.A. B.Ed. B	
T.Y.B.Com. A		T.Y.B.A. B.Ed. A	
T.Y.B.Com. B		T.Y.B.A. B.Ed. B	
Fourth Year B.A.B.Ed. A		Fourth Year B.A.B.Ed.	



**List of participants  
Rain Water Harvesting Course**

Sr. No	Volunteer Name
1	Siya Rajan Poll
2	Sakshi Patil
3	Siddhart Navik
4	Saheel Kauthankar
5	Sunil Vasanth Hebbare
6	Aachal Ashok Naik
7	Purva Savoikar
8	Anita Narayan Rathod
9	Karan Savoji
10	Biswajit Pradhan
11	Sonali Umesh Mokashi
12	Nisha M. Narvekar
13	Puja Kumari Santosh Gupta
14	Mayuri Santosh Andurlekar
15	Sushant S Dessai
16	Shruti Kudnekar
17	Siddhi Jambotkar
18	Sonali Chendvankar
19	Samiksha Patel
20	Sana Gorundagi
21	Nimish Shivram Prabhudessai
22	Sagar Vishwas Thorat
23	Kalash Kishor Kamat
24	Gunjan Dutt
25	Santosh Salgaonkar





**Prabodhan Education Society's**  
**Vidya Prabodhini College of Commerce, Education, Computer and Management,**  
**Parvuri Goa**

**A Short Term Certificate Course on Rain Water Harvesting**  
**Attendance**

S.No.	Student Name	20-Oct	21-Oct	22-Oct	23-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct
1	Siya Rajan Poll										
2	Sakshi Patil										
3	Siddhart Navik										
4	Saheel Kauthankar										
5	Sunil Vasanth Hebbare										
6	Aachal Ashok Naik										
7	Purva Savoikar										
8	Anita Narayan Rathod										
9	Karan Savoji										
10	Biswajit Pradhan										
11	Sonali Umesh Mokashi										
12	Nisha M. Narvekar										
13	Puja Kumari Santosh Gupta										
14	Mayuri Santosh Andurlekar										
15	Sushant S Dessai										
16	Shruti Kudnekar										
17	Siddhi Jambotkar										
18	Sonali Chendvankar										
19	Samiksha Patel										
20	Sana Gorundagi										
21	Nimish Shivram Prabhudessai										
22	Sagar Vishwas Thorat										
23	Kalash Kishor Kamat										
24	Gunjan Dutt										
25	Santosh Salgaonkar										







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(RECOGNIZED BY U.G.C UNDER SECTION 2(O) AND 12 (B) OF THE UGS ACT 1956)

ACCREDITED BY NAAC WITH B+ GRADE ON A SEVEN POINT SCALE UNDER NEW FRAMEWORK (I<sup>st</sup> CYCLE)

EXCELLENCE EVERYWHERE EVERYTIME



DHAVRUKH

## CERTIFICATE

This is to certify that \_\_\_\_\_  
has successfully completed a 30 hours certificate course titled "Rain  
Water Harvesting and Ground Water Recharging" held from 20th to 30th  
October 2022 in association with Dhavrukh NGO.

Shri. Rudresh U. Mhamal

President  
DHAVRUKH

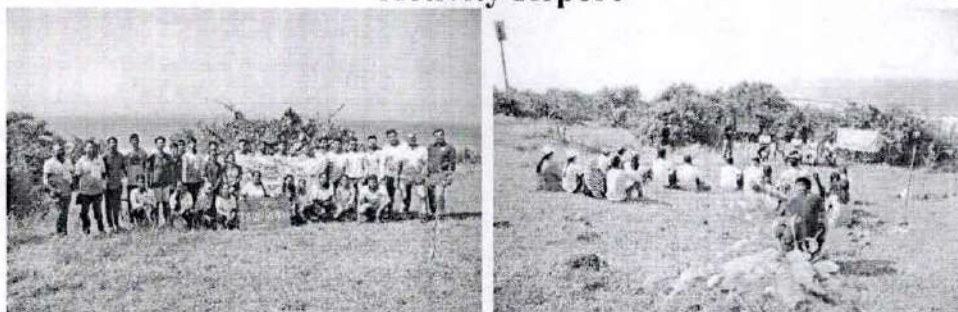
Dr. Bhushan Bhawe

Principal,  
VPCCECM, Parvari – Goa



**Prabodhan Education Society's  
Vidya Prabodhini College of Commerce, Education, Computer and Management,  
Parvari Goa.**

**Activity Report**



The Nisarga Club of the College in Association with Dhavrukh NGO organized a 30 hours certificate course on Rain Water Harvesting as a part of MOU between Vidya Prabodhini College and Dhavrukh. 25 students participated and successfully completed the course. Assistant Professor Mr. Rudresh Mhamal, Mr. Raviraj Pednekar and Mr. Vasant Narulkar were the resource persons for the course. The certificate distribution of the course was held on 30<sup>th</sup> October 2022 at Junaswada, Mandre Pedne Goa. The convener of Nisarga Club Mr. Uddhav Pol handed over the certificates to the participants

**Name of the Event:** Certificate course on Rain Water Harvesting

**Academic Year:** 2022-2023

**Type of the Event:** Course

**Mode of Event:** Offline

**Date of Event:** 20<sup>th</sup> October to 30<sup>th</sup> October 2022

**Duration (s):** 30 hours Course

**Objectives of the event :**

- Define key rainwater harvesting concepts, terms, and principles
- Assess a site for rainwater harvesting potential and water uses
- Make strategic decisions about what features and systems to use for a site
- Design a conceptual integrated rainwater harvesting plan for a site
- Refine a conceptual rainwater harvesting plan with relevant systems details





## Details about the external Collaborating/Associating agencies

Name of the collaborating agency: Dhavrukh

Address: Madhalamaj Mandre Pedne Goa

Nature of the Collaboration : MOU

Details of Collaboration: Providing Recourse Persons

## Resource Persons' Details

Name of the Resource person: Raviraj Pednekar

Institutional Affiliation: Secretary, Dhavrukh

Any other details:

Name of the Resource person: Vasant Narulkar

Institutional Affiliation: Member, Dhavrukh

Any other details:

## Participant Details

Number of Participants

Local	State	National	International	Total Delegation
25	-	-	-	25

## Event Coordinator Details

Name of the Department/Committee: Nisarga Club

Name of the Event Co-ordinator: Mr. Rudresh Mhamal

Event Co-ordinator email address: mhamal88@gmail.com

Event Co-ordinator Mobile Number: 8788807952

Name of the Co-coordinator:

Signature of the Coordinator:



Signature of the Co-coordinator:

Date: 3<sup>rd</sup> November 2022

Place: Porvorim - Goa

