



**SONOPANT DANDEKAR ARTS, V.S. APTE
COMMERCE AND M.H. MEHTA SCIENCE
COLLEGE, PALGHAR**

**DEPARTMENT OF
INFORMATION TECHNOLOGY**

Certificate Course in Open-Source Technology

Under the Aegis of

Centre for Excellence and Innovation

Academic Year: 2018 - 2019

**Prof. Mahesh Deshmukh
CFEI – Chairman**

**Dr. Kiran Save
Principal**

Department of Information Technology
Certificate course in Open-Source Technology

Report 2018-2019

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Date: 22nd December, 2018

To,

The Principal

Sonopant Dandekar Arts, V.S. Apte Commerce and

M.H. Mehta Science College,

Palghar.

Subject: Proposal for Organizing Certificate Course in Open-Source Technologies

Respected Sir,

The Department of Information Technology plan to organize the Certificate Course in the Open-Source Technologies from 26th January, 2019.

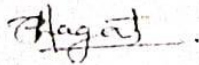
The course curriculum will focus on Open-Source Software Terminology using Xamarin build up in the development of a professional mobile application by participants.

I believe this course will equip students with valuable skills and knowledge in open-source software development.

The details are provided along with this letter. I request you to kindly grant the permission to start this course.

Thanking you.

Yours faithfully



Dr. Ashwin Bhagat
HOD – Information Technology





Sonopant Dandekar Shikshan Mandali's

**SONOPANT DANDEKAR ARTS, V.S. APTE COMMERCE AND
M.H. MEHTA SCIENCE COLLEGE, PALGHAR**

Palghar, Dist – Palghar, Pin – 401 404, E – Mail: sdscollege@yahoo.com

Certification Course in Open-Source Technologies for the year 2018-2019

Course Title	:	Certificate Course in Open-Source Technologies
Objectives	:	The Objective of this Course is to create awareness about the open-source software and tools available in the market and using them instead of paying for the commercial software.
Learning Outcomes	:	Open-source software licenses promote collaboration and sharing because they permit other people to make modifications to source code and incorporate those changes into their own projects. They encourage computer programmers to access, view, and modify open-source software whenever they like, as long as they let others do the same when they share their work. The student will be able to use the software to develop customized apps and understand the source code running the software.
Purpose of the course	:	<ul style="list-style-type: none">• The purpose of the course is that the learner should understand the Free Open-Source Software (FOSS) model.• FOSS is based on communities and does not require the exchange of material goods to participate in the development process or to share the results.• The learner should be able to contribute his/her developments to the FOSS community.
Duration	:	60 Hrs (Weekends Only)
Eligibility of Students	:	SY/TY (Comp. Science/Information Technology)
Fees	:	Rs. 1000/- Per Head
Intake Capacity	:	Maximum 30 students per session.
Total Students Enrolled	:	31
Hardware Resources	:	8 GB RAM, i3 or above processor, 500 GB or above HDD
Software Requirements	:	Windows 7 or above, Visual Studio 15 or above, Xamarin Packages, Android Emulator, SQLite

Certificate Course Syllabus Committee:

Sr. No.	Name	Designation
1.	Dr. Kiran J. Save	Principal, Sonopant Dandekar College, Palghar
2.	Dr. Ashwin Bhagat	Incharge, Dept. of I,T
3.	Prof. Ahmed Shaikh	Faculty, Dept. of I,T
4.	Prof. Bhakti Raut	Faculty, Dept. of I,T

List of Subject Teachers/ Expertise Faculty:

Sr. No.	Name	Qualifications
1.	Mr. Ashwin Bhagat	Incharge, Dept. of I,T
2.	Prof. Ahmed Shaikh	Faculty, Dept. of I,T



Sonopant Dandekar Shikshan Mandali's

**SONOPANT DANDEKAR ARTS, V. S. APTE COMMERCE
AND M. H. MEHTA SCIENCE COLLEGE**

Tal. Palghar, Dist. Palghar, Pin - 401 404.

Code.: (02525) 252163, Prin : 252317 • Resi.: 252316

website : www.sdsmcollege.com • Email: sdsmcollege@yahoo.com
(NAAC Reaccredited 'B' Grade)

NOTICE

03/01/2019

All FY/SY/T.Y.I.T students are hereby informed that the Department of I.T is organizing a Certificate Course Open Source Technologies from 26th January, 2019. The course deals with the Open-Source Software Terminology using Xamarin and enable learners to develop a professional mobile app at the end of the course.

The fees for the Course are Rs. 1000/-. For further details contact Prof. Ahmed Shaikh (Department of I.T).

Dr. Ashwin D. Bhagat
Incharge
Department of I.T

Dr. Kiran Save

Principal
Sonopant Dandekar Arts College,
V.S. Apte Commerce College &
M.H. Mehta Science College
PALGHAR (W.R.)
Dist. Palghar, Pin-401404

Detailed Syllabus -

Day	Subject Area	Topics	Duration
1	C# language fundamentals - I	<ul style="list-style-type: none"> • Difference between C++ and • Understanding Variable • Conditional statements • Practical Questions 	6 Hrs
2	C# language fundamentals II	<ul style="list-style-type: none"> • Looping statements • Types of functions • Constructors and Destructors • Passing Values to functions • Debugging • Practical Questions 	6 Hrs
3	<ul style="list-style-type: none"> • C# language fundamentals – III 	<ul style="list-style-type: none"> • Events and Event triggers • Lambda Expressions • Calling and invoking lambda Expressions 	6 Hrs
4	Introduction to Xamarin	<ul style="list-style-type: none"> • What is Xamarin? • Why Xamarin? • Cross Platform Accessibility • Downloading Xamarin • Installing and Configuring Xamarin 	6 Hrs
5	Working with Xamarin (Theoretical Session)	<ul style="list-style-type: none"> • Setting up the work environment • Installing and configuring Android Virtual Device (AVD) • Execution of AVD and running first project • Understanding Xamarin 	6 Hrs

		<p>work space and its familiarization</p> <ul style="list-style-type: none"> • Understanding Xamarin File Directory and project workflow. • What is XAML and why XAML? 	
6	XAML Layout	<ul style="list-style-type: none"> • Designing the first Layout • Linear Layout • Frame Layout • Grid Layout Navigation and • Relative Layout • Stack Layout 	6 Hrs
7	Working with Xamarin Form	<ul style="list-style-type: none"> • Form Controllers - Entry, Label, Button, Datepicker, Timepicker, Slider, Incrementor, Text Area, Password, Email • Events related to forms and their controllers 	6 Hrs
8	Navigation and Project Flow in Xamarin Forms	<ul style="list-style-type: none"> • Types of Navigation in Xamarin • Understanding navigation Stack and its working • Linking several pages in using Navigation 	6 Hrs
9	SQLite	<ul style="list-style-type: none"> • Introduction to SQLite • Installing SQLite Packages • Accessing SQLite in Xamarin Project • Understanding SQLite CRUD operations 	6 Hrs

		<p>Insert, update and delete data from Xamarin Forms</p> <ul style="list-style-type: none"> • Working with complex queries 	
10	Recap	Brief Summary of entire Course Session	
11	Mini Project	<p>Revision of all taught Theories</p> <p>Working on a Project: Login Page using local Database</p>	

STUDENT ENROLLMENT LIST

Sr.No.	Name of Students	Class	Roll No.
1	Jay Mokal	F.Y.I.T.	67001
2	Pradirgesh Patil	F.Y.I.T.	67003
3	Rinni Patil	F.Y.I.T.	67008
4	Mayur Bhoir	F.Y.I.T.	67009
5	Deepali Shivde	F.Y.I.T.	67011
6	Nishigandha Patil	F.Y.I.T.	67012
7	Manaswi Patil	F.Y.I.T.	67013
8	Aditi Pimple	F.Y.I.T.	67016
9	Vaibhav Gunjite	F.Y.I.T.	67019
10	Rameshwar panghare	F.Y.I.T.	67020
11	Soham Naik	F.Y.I.T.	67021
12	Isha Patil	F.Y.I.T.	67022
13	Kapil Bharwad	F.Y.I.T.	67027
14	Rohan Gaurav	F.Y.I.T.	67041
15	Chandan Ravidas	F.Y.I.T.	67049
16	Priya Jaiswar	F.Y.I.T.	67051
17	Nihar Save	F.Y.I.T.	67053
18	Siddhi Raut	F.Y.I.T.	67060
19	Sandeep Thakur	F.Y.I.T.	67062
20	Monica Khinchi	F.Y.I.T.	67063
21	Rishab Verma	F.Y.I.T.	67069
22	Jyoti Kaushal	F.Y.I.T.	67075
23	Anjana Yadav	F.Y.I.T.	67079
24	Sahil Shinde	F.Y.I.T.	67081
25	Siddhi Vaishya	F.Y.I.T.	67085
26	Kautuk Bari	F.Y.I.T.	67089
27	Vishal Mandve	F.Y.I.T.	67094
28	Pinky Yadav	F.Y.I.T.	67102
29	Kartik Gupta	F.Y.I.T.	67059
30	Swapnali Umtol	F.Y.I.T.	67080
31	Hariom Chauhan	F.Y.I.T.	67090

Bhagat

Dr. Ashwin Bhagat
HOD – Information Technology



ATTENDANCE REPORT

Sr. No.	Name of student	Roll No	26/1	3/2	10/2	10/3	17/3	23/3	28/3	3/4	10/4	17/4					
			P	P	A	P	P	A	A	A	P	A	A				
1.	Jay Mokal	67001	P	P	A	P	P	A	A	A	A	A					
2.	Pardirgesh Patil	67003	A	P	P	P	P	A	A	A	A	A					
3.	Rinni Patil	67008	A	P	P	A	A	A	A	P	A	A					
4.	Mayur Bhoir	67009	A	P	A	P	P	P	P	P	P	A					
5.	Deepali Shivde	67011	P	P	P	P	P	A	P	P	P	P					
6.	Nishigandha Patil	67012	A	P	P	P	P	A	P	P	A	P					
7.	Manaswi Paitl	67013	A	P	P	P	P	A	P	P	A	A					
8.	Aditi Pimple	67016	A	P	P	P	A	A	A	A	A	A					
9.	Vaibhav Gunjite	67019	A	A	A	A	A	A	A	A	A	A					
10.	Rameshwar Pangare	67020	P	P	P	P	P	P	A	P	P	A					
11.	Soham Naik	67021	P	A	P	P	P	P	P	A	A	A					
11.	Isha Patil	67022	A	P	A	A	A	A	A	A	A	A					
12.	Kapil Bharwad	67027	P	P	P	P	P	P	P	P	P	P					
13.	Rohan Gurav	67041	P	A	P	P	P	P	P	P	P	P					
14.	Chandan Ravidas	67049	A	P	P	A	P	P	A	P	P	P					
15.	Priya Jaiswar	67051	P	P	P	P	P	P	P	P	P	P					
16.	Nihar Save	67053	P	A	A	P	A	A	A	A	A	A					
17.	Siddhi Raut	67060	A	A	P	A	P	A	A	P	A	A					
18.	Sandeep Thakur	67062	P	P	P	A	P	P	P	P	P	P					
19.	Monica Khinchi	67063	P	P	P	P	P	P	P	P	P	P					
20.	Rishab Verma	67069	P	A	P	P	A	A	A	A	A	A					
21.	Jyoti Kaushal	67075	P	P	P	A	P	A	A	P	A	A					
22.	Anjana Yadav	67079	P	A	P	A	P	A	P	P	P	P					
23.	Sahil Shinde	67081	A	P	A	P	P	P	P	P	P	P					
24.	Siddhi Vaishya	67085	P	A	A	A	A	P	A	A	A	A					
25.	Kautuk Bari	67089	P	P	P	P	P	A	A	P	P	P					
26.	Vishal Mandve	67094	P	P	P	P	P	P	P	A	P	A					
27.	Pinky Yadav	67102	P	P	P	A	P	A	A	P	P	A					
28.	Karthik Gupta	67059	P	A	P	A	P	P	A	P	A	A					
29.	Swapnali Umbol	67080	A	A	A	A	P	A	A	A	A	A					
30.	Hariom Chauhan	67090	A	A	A	A	P	A	A	A	A	A					

Bhagat

Dr. Ashwin Bhagat
HOD – Information Technology

SYLLABUS COMPLETION REPORT

Day	Subject Area	Faculty	Date	Duration
1	C# language fundamentals - I	Mr. Ahmed Shaikh	26/01/2019	6 Hrs
2	C# language fundamentals II	Mr. Ahmed Shaikh	03/02/2019	6 Hrs
3	<ul style="list-style-type: none">C# language fundamentals – III	Mr. Ahmed Shaikh	10/02/2019	6 Hrs
4	Introduction to Xamarin	Mr. Ahmed Shaikh	10/03/2019	6 Hrs
5	Working with Xamarin (Theoretical Session)	Mr. Ahmed Shaikh	12/03/2019	6 Hrs
6	XAML Layout	Mr. Ahmed Shaikh	27/07/2019	6 Hrs
7	Working with Xamarin Form	Mr. Ahmed Shaikh	28/07/2019	6 Hrs
8	Navigation and Project Flow in Xamarin Forms	Mr. Ahmed Shaikh	07/9/2019	6 Hrs
9	SQLite	Mr. Ahmed Shaikh	27/12/2019	6 Hrs
10	Recap	Mr. Ahmed Shaikh	28/12/2019	6 Hrs
11	Mini Project	Mr. Ahmed Shaikh	28/12/2019	



Dr. Ashwin Bhagat
HOD - Information Technology

STUDENTS GRADE SHEET

Sr. No.	Name of Students	Presentation (50)	Assignment (50)	Total (100)	Grade
1	Jay Mokal	30	35	65	A
2	Pradirgesh Patil	40	40	80	O
3	Rinni Patil	35	35	70	A
4	Mayur Bhoir	25	25	50	B
5	Deepali Shivde	27	23	50	B
6	Nishigandha Patil	30	30	60	A
7	Manaswi Patil	30	35	65	A
8	Aditi Pimple	35	30	65	A
9	Vaibhav Gunjite	25	25	50	B
10	Rameshwar panghare	25	30	55	B
11	Soham Naik	30	30	60	A
12	Isha Patil	40	35	75	O
13	Kapil Bharwad	30	40	70	A
14	Rohan Gaurav	30	30	60	A
15	Chandan Ravidas	25	25	50	B
16	Priya Jaiswar	30	40	70	A
17	Nihar Save	35	35	70	A
18	Siddhi Raut	30	30	60	A
19	Sandeep Thakur	25	30	55	B
20	Monica Khinchi	30	35	65	A
21	Rishab Verma	30	30	60	A
22	Jyoti Kaushal	35	35	70	A
23	Anjana Yadav	30	30	60	A
24	Sahil Shinde	35	40	75	O
25	Siddhi Vaishya	40	45	85	O
26	Kautuk Bari	30	35	65	A
27	Vishal Mandve	30	30	60	A
28	Pinky Yadav	25	30	55	B
29	Kartik Gupta	30	30	60	A
30	Swapnali Umtol	30	30	60	A
31	Hariom Chauhan	35	35	70	A

Ashwin Bhagat

Dr. Ashwin Bhagat
HOD – Information Technology



Certificate Course in Open Source Technologies

INCOME-EXPENSE SHEET

Course Coordinator	Mr. Ashwin D. Bhagat
Course Conducted By	Mr. Ahmed Shaikh
Course Duration	January 2019- December 2019
Total Students	30
Fees per Head	1000
Total Fees	30,000
Course Duration	60 Hrs
Remuneration per lecture (1 Hr)	250/-

Remuneration Breakage

Sr.No	Particular	Amount	Sr. No	Particular	Amount
1.	Total Fees Collected (1000 * 30 Students)	30,000	1.	Remuneration of Coordinator (Mr. Ashwin D. Bhagat)	3000
			2.	Remuneration of Course Conductor Mr. Ahmed Shaikh (Rs. 250 * 60 Hrs)	15,000
Total		30,000	Total		18,000

Total Cash in Hand: 12,000/-

Prof. Ashwin Bhagat
Submit the copy of syllabus +
other related documents to Mr. Pankaj
Chatterjee for same purpose
Kulkarni
29/11/19



Mr. Ashwin D. Bhagat
Incharge (I.T Department)

REMUNERATION OF FACULTIES

**Sonopant Dandekar Arts, V. S. Apte Commerce &
M. H. Mehta Science College**

PALGHAR, Dist. Palghar - 401 404.

Voucher No.

Date 30/12/2019

Pay to Shri/Ms. Ahmed S. Shaikh

Rs. 15,000/-

(in words) Fifteen Thousand Only.

only by Cash/Cheque No. _____ on _____

and debit the sam to _____ Account _____

PARTICULARS	Rs.	Ps.
Remuneration of the Faculty for conducting the Certificate course in Open Source Technologies initiated by the Department of I.T.	15,000/-	
TOTAL	15,000/-	

Accountant's
noting { _____
 { _____

Cashier

Officer

Principal

Received the sum of Rs. 15,000/-

(In words) Fifteen Thousand Only

by Cash/Cheque

K. H.
Principal
Receiver

**Sonopant Dandekar Arts, V. S. Apte Commerce &
M. H. Mehta Science College**

PALGHAR, Dist. Palghar - 401 404.

Voucher No.

Date 31/12/2019.

Pay to Shri/Smt. Ashwin D. Phogat Rs. 3,000/-
(in words) Three Thousand Only.

only by Cash/Cheque No. _____ on _____
and debit the sam to _____ Account _____

PARTICULARS	Rs.	Ps.
Remuneration towards the	3,000/-	
Coordination for the Certificate		
Course in Open Source Technologies		
initiated by the Dept. of I.T		
TOTAL	3,000/-	

Accountant's { _____
noting { _____

Cashier _____ Officer _____

K. B. ...
Principal

Received the sum of Rs. 3,000/-
(In words) Three Thousand Only.
by Cash/Cheque

Sign
or
Receiver

SAMPLE CERTIFICATES

SONOPANT DANDEKAR SHIKSHAN
MANDALI' S
SONOPANT DANDEKARARTS, V. S. APTE
COMMERCE AND
M. H. MEHTA SCIENCE COLLEGE, PALGHAR,
TAL. & DIST. PALGHAR 401 404 .

CERTIFICATE

This is to certify that

PRADIRGESH PATIL

has successfully completed Open Source Technologies Course organized
by Department of Information Technology in the month of January, 2019
under IQAC of Sonopant Dandekar Arts, V.S. Apte Commerce & M.H.
Mehta Science College, Palghar.

Mr. Ashwin Bhagat
HOD (BSc-IT Dept)

Dr. Kiran Save
Principal

SONOPANT DANDEKAR SHIKSHAN
MANDALI' S
SONOPANT DANDEKARARTS, V. S. APTE
COMMERCE AND
M. H. MEHTA SCIENCE COLLEGE, PALGHAR,
TAL. & DIST. PALGHAR 401 404 .

CERTIFICATE


This is to certify that

RINNI PATIL

has successfully completed Open Source Technologies Course organized
by Department of Information Technology in the month of January, 2019
under IQAC of Sonopant Dandekar Arts, V.S. Apte Commerce & M.H.
Mehta Science College, Palghar.



Mr. Ashwin Bhagat
HOD (BSc-IT Dept)



Dr. Kiran Save
Principal

SONOPANT DANDEKAR SHIKSHAN
MANDALI' S
SONOPANT DANDEKARARTS, V. S. APTE
COMMERCE AND
M. H. MEHTA SCIENCE COLLEGE, PALGHAR,
TAL. & DIST. PALGHAR 401 404 .

CERTIFICATE

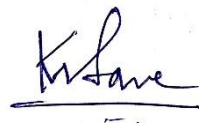
This is to certify that

ADITI PIMPLE

has successfully completed Open Source Technologies Course organized
by Department of Information Technology in the month of January, 2019
under IQAC of Sonopant Dandekar Arts, V.S. Apte Commerce & M.H.
Mehta Science College, Palghar.



Mr. Ashwin Bhagat
HOD (BSc-IT Dept)



Dr. Kiran Save
Principal

SUMMARY OF THE COURSE

The Open-Source Technology Course Certification aims to provide a thorough grounding in open-source principles and practices.

31 students were enrolled for the course. Course was organized for first year Information Technology students and conducted in 60 hours.

By the end of the course, students will be well-equipped to contribute to and benefit from the open-source ecosystem, fostering a deeper engagement with this vital aspect of modern software development. Develop practical skills by contributing to real- world open-source projects. Graduates of the course are well-prepared to contribute to and benefit from the open-source ecosystem, enhancing their professional skills, career prospects, and personal growth. The course fosters a strong sense of community engagement and continuous learning, essential for thriving in the dynamic field of open-source technology.



Dr. Ashwin Bhagat

HOD – Information Technology