

Shri Swami Vivekanand Shikshan Sanstha

# VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

## Department of Computer Science

### “IIT Bombay Spoken Tutorial MOOC Courses”

Vivekanand College, Kolhapur has been at the forefront of providing quality education and fostering a culture of continuous learning. In collaboration with IIT Bombay Spoken Tutorial, the college has been offering a diverse range of Massive Open Online Courses (MOOCs) to empower students with cutting-edge skills. These courses include Cell Designer, Web Development - HTML, Python 3.4.3, PHP, and MySQL etc.

**Course Structure:** The IIT Bombay Spoken Tutorial courses are designed to meet the evolving needs of the industry and equip students with practical skills. The courses cover a spectrum of topics, including the intricacies of Cell Designer, the fundamentals of web development using HTML, and proficiency in programming languages like Python 3.4.3, PHP, and MySQL.

**Online Sessions:** Conducted by experts from IIT Bombay, the online sessions offer an interactive and engaging learning experience. Students have the opportunity to interact with seasoned professionals, clarifying doubts and gaining insights into real-world applications of the concepts they are learning. The virtual format ensures flexibility, allowing students to access the sessions at their convenience, fostering a conducive learning environment.

**Examinations at Vivekanand College, Kolhapur:** One of the unique aspects of this collaboration is the provision for examinations conducted online at Vivekanand College, Kolhapur. This not only adds a layer of convenience for students but also ensures a seamless transition from online learning to the evaluation process. The examinations are designed to assess the practical application of the skills acquired during the course.

#### **Benefits for Students:**

- **Skill Enhancement:** The courses cater to the demands of contemporary industries, enhancing the employability of students by providing them with relevant skills.
- **Flexibility:** The online format allows students to balance their academic commitments while acquiring valuable skills.
- **Certification:** Successful completion of the courses results in certification from IIT Bombay, a testament to the students' proficiency in the respective domains.
- **Community Impact:** By establishing an IIT Bombay Spoken Tutorial Courses center, Vivekanand College has not only elevated the learning experience for its students but has also contributed to the larger goal of creating a skilled workforce. This initiative aligns with the national agenda of fostering digital literacy and technological proficiency.

The collaboration between Vivekanand College, Kolhapur and IIT Bombay Spoken Tutorial has proven to be a commendable effort in providing quality education to students. The combination of online learning and localized examinations ensures a holistic educational experience. As students continue to benefit from these courses, the college remains committed to its mission of nurturing well-rounded and skilled individuals ready to excel in the professional landscape.

## Courses and Participants List

### Academic Year 2022-23

**January - June, 2023 Total : 4**

#	Semester Start Date	Software Course	Department	Participant List Status	Action
1	March 2, 2023	CellDesigner	B.SC. B.MB.C (Botany- Microbiology- Chemistry)	14	<a href="#">Participant List</a>   <a href="#">Generate Participation Certificate</a>
2	Jan. 2, 2023	Web Development - HTML	BSC/Maths- Physics- Computer Science ( English medium)	48	<a href="#">Participant List</a>   <a href="#">Generate Participation Certificate</a>
3	Jan. 2, 2023	Python - Python 3.4.3	B.Sc. Computer Science	52	<a href="#">Participant List</a>   <a href="#">Generate Participation Certificate</a>
4	Jan. 2, 2023	PHP and MySQL	BSC/Maths- Physics- Computer Science ( English medium)	48	<a href="#">Participant List</a>   <a href="#">Generate Participation Certificate</a>

**July - December, 2022 Total : 1**

#	Semester Start Date	Software Course	Department	Participant List Status	Action
1	Aug. 1, 2022	Python - Python 3.4.3	B.Sc. Mathematics	8	



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## Web Development - HTML

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### Python - Python 3.4.3

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100

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# Vivekanand College, Kolhapur (Autonomous)

## NOTICE

Ref. No. Vck 1940/2022-23

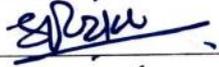
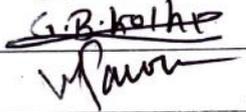
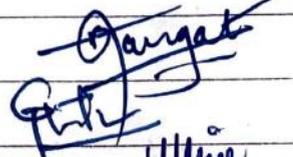
Date: 22/08/2022

All Heads of **Senior College** are informed that the admission process for **MOOC Courses** offered by IIT Bombay has been started as per **MoU** between **Vivekanand College, Kolhapur and Spoken Tutorial, IIT Bombay**. However, you should choose the course suitable for your **subject** from the attached list and submit the list of interested students in your department in appropriate format in soft copy to **Computer Science Department**.

There will be **no Fees** for said courses only the **examination and certification** fee will be charged at a nominal rate of **Rs. 200/-**. The students should be informed about the said course from time to time and keep in touch with the **Computer Science Department** and review the course from time to time.

  
**Dr. R. R. Kumbhar**  
**PRINCIPAL**  
Vivekanand College  
Kolhapur

**Vivekanand College, Kolhapur (Autonomous)**  
**List of Head of the Departments -2022-23**

Sr.No.	Department	Name of HoD	Sign.
1	Marathi	Dr. P. Y. Patil	
2	Hindi	Dr. A. S. Mahat	
3	English	Dr.Mrs. K D Tiwade	
4	History	Dr. S. R. Kattimani	
5	Geography	Dr. .G.S.Ubale	
6	Sociology	Mr .H. V. Chame	
7	Economics	Mr. Dr. Kailas Patil	
8	Political Sc.	Ms. S A Farakate	
9	Home Sc.	Mrs U. S. Khot	
10	Commerce	Mr. Sunny Kale	
11	Physics	Dr. M M Karanjkar	
12	Chemistry	Dr.Mrs. S.D.Shirke	
13	Mathematics	Mr. S. P. Patankar	
14	Statistics	Ms. Varsha Pawar	
15	Electronics	Dr. C. B. Patil	
16	Computer Sc.	Dr. V.B. Waghmare	
17	Botany	Dr. B.T.Dangat	
18	Zoology	Dr. G. K. Sontakke	
19	Microbiology	Dr. G. K. Sontakke	
20	Bio Technology (Entire & Optional )	Mr. S. G. Kulkarni Ms .S. H.Nadaf	
21	BBA	Mr. Sunny Kale / Dr. R. R. Patil	
22	BCA	Mr. Sunny Kale	
23	BCS	Mrs. P. M. Desai	
24	B.Voc. & Community College	Dr . S. M .Joshi	

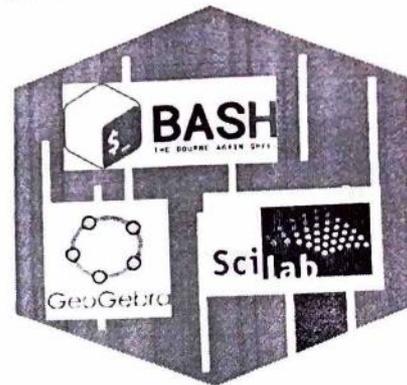
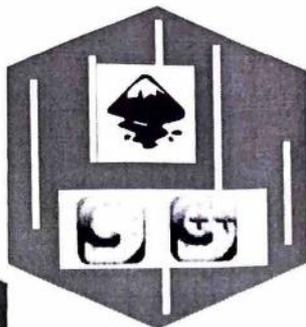
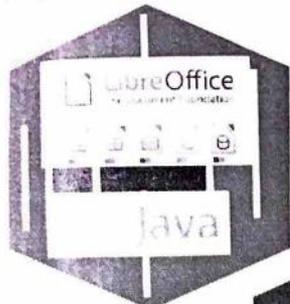


Spoken Tutorial

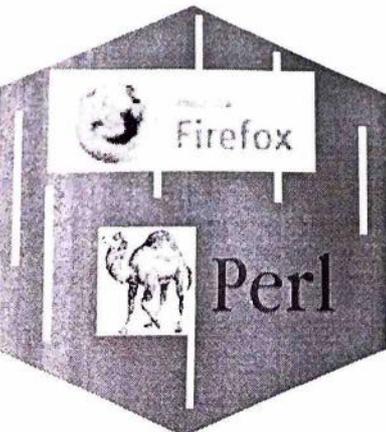
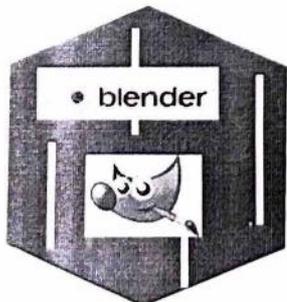
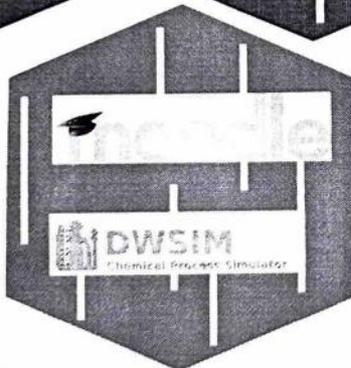
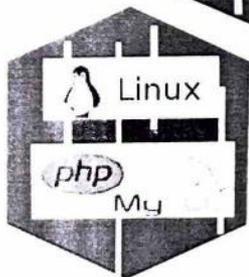
# Learn Free and Open Source Software through Spoken Tutorial at Very Low Cost



IIT Bombay



## E-Brochure



Arduino QCAD  
 Advanced DWSIM  
 Python C++ Ruby Scilab eSim  
 Blender  
 Linux AWK Koha PERL Typing  
 GIMP  
 Linux OpenOffice Libreoffice Bio  
 BASH C/C++ Python  
 Inkscape GIT Jmol Java  
 OpenModelica Application Xfig  
 GeoGebra ExpEYES  
 Moodle NetBeans GChemPaint  
 Cell Designer PHP & MySQL

## Basic Computer Skills & Office Automation

### Applications / Skills & Employability

Software / FOSS name	Applications / Skills & Employability
Introduction to Computers	How to use computers for day-today activities.
LibreOffice - Writer, Calc, Impress, Base, Draw, Math	Office Automation system - Documentation, Spreadsheet, Slide making.
Linux, Linux AWK, Ubuntu, BOSS	Free and Open source operating system. Actively being taken up by E-Governance programs and SMEs.
Firefox	Web browser. Used for all internet browsing purposes.
Tux Typing	Teaches 10 Finger typing.

### Programming Languages / Information Technology

C / C++, Advance C++, Java, Java Business Application, Netbeans	C is the most popular language worldwide. <b>Java</b> is also popular with ability to run the same program on different systems relevant to World Wide Web <i>software</i> . <b>NetBeans</b> is an open-source integrated development environment ( <b>IDE</b> ). Smooth JavaScript editor, Templates profiler & GUI Design tool. <b>JBA</b> is used to create business applications and provide domain expertise.
Ruby	Ruby is an object oriented scripting language use widely for developing web applications.
GIT	GIT is a version-control system for tracking changes in computer files and coordinating work on those files among multiple people.
Android App using Kotlin	Learn to architect and develop Android apps in the Kotlin programming language. With these techniques you'll create apps in less time, writing less code, and with fewer errors.
HTML	Hypertext Markup Language is the standard markup language for documents designed to be displayed in a web browser.

### Modelling and Simulation

DWSIM	DWSIM is a software for modeling, simulation, and optimization of steady-state chemical processes, Use in Chemical industry.
OpenModelica	OpenModelica is used for Simulating, Optimising, Analysing complex dynamic systems. Eg. In power plant, water treatment, automotive processes optimization.

### Mathematics / Statistics

GeoGebra	Dynamic Mathematics Software (DMS) for teaching and learning mathematics from middle school through college level.
R (like SPSS)	Programming language used for statistical computing and graphics.
Biopython	Tool for Computational Biology and Bioinformatics.

<b>Multimedia / Drawing</b>	
<b>GIMP (like Photoshop)</b>	GIMP is a graphics editor used for image retouching and editing, free-form drawing etc.
<b>Inkscape (like Corel Draw)</b>	Inkscape designs and creates a wide variety of graphics such as illustrations, icons, logos, diagrams, maps and web graphics.
<b>Blender (like Maya 3D)</b>	Blender is a 3D computer graphics software toolset used for creating animated films, visual effects, art, 3D printed models, games.
<b>QCAD</b>	QCAD is used to create technical drawings such as plans for buildings, interiors, mechanical parts or schematics and diagrams.
<b>Synfig</b>	Synfig Studio eliminates the need to create animation frame-by-frame, allowing you to produce 2D animation of a higher quality with fewer people and resources.

<b>Scripting Languages / Web Development</b>	
<b>Python</b>	Used for web programming eg. Django, Zope, Google App Engine, Desktop applications, Web Development sites eg. Facebook, Google search, Wikipedia.
<b>PERL</b>	Perl is a general-purpose programming language useful as a Glue language for tying together systems - hence invaluable to System Administrators and for Web Development.
<b>PHP &amp; MySQL</b>	Used as Web development and Database Management Systems package.
<b>Drupal</b>	Drupal is a content management system (CMS) written in PHP and distributed under the GNU General Public License. Useful for website-building and web applications.

<b>Mechanical / Civil / Electrical - Engineering disciplines</b>	
<b>Open Foam</b>	Data processing and visualisation. Aerodynamics, Building constructions.
<b>Oscad (eSim)</b>	Tool for circuit design, simulation, analysis and PCB design.
<b>QGIS</b>	QGIS is an application that supports viewing, editing, and analysis of geospatial data. It allows users to analyse and edit spatial information, in addition to composing and exporting graphical maps.

<b>Chemistry / Bio-Chemistry</b>	
<b>Avogadro</b>	Avogadro is a molecule editor and visualizer.
<b>GChemPaint</b>	GChemPaint allows you to draw and display 2D chemical structures. Very useful to teach and learn abstract chemistry concepts.
<b>Cell Designer</b>	Cell designer is a drawing tool - a structured diagram editor for biochemical networks & gene-regulatory drawings.
<b>Jmol Application</b>	It is used for molecular modelling chemical structures in 3 dimensions. eg. molecular biology pertinent structures.

### Electronics / Physics

Arduino	Arduino is an open source platform used for building electronics projects. Or creating interactive objects or environments. eg. Used in Robotics
ExpEYES	ExpEYES stands for Experiments for Young Engineers and Scientists. A tool for learning science by exploring and experimenting.
Single Board Heater System(SBHS)	The application of this device is in the Control Systems area of Engineering.

### Learning Management System

Moodle	Moodle is a learning management system or an online platform for customized learning, assignment and assessment purposes.
LaTeX	The best tool for Technical writing. eg. Math typesetting for Science, Engineering, Technology writing of theses, projects, journal articles, books etc. LaTeX has automatic generation of high quality PDF reports.
Scilab (like MATLAB)	Scientific computation package for Advanced mathematical computations. Use for academics in Physics, Engineering, Applied mathematics, Statistics & in Data Analytics companies and departments.

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**Spoken Tutorial project is funded by National Mission Education through ICT, Ministry of Education, Govt. Of India.**

<http://spoken-tutorial.org>



Spoken Tutorial  
Project at  
IIT Bombay

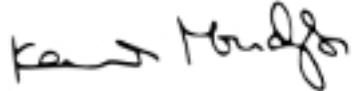
# Certificate for the Completion of PHP and MySQL Training

This is to certify that **RUTUJA DINDE** has successfully completed **PHP and MySQL** test organized at **Vivekanand College** by **RAJASHREE PATIL** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training.

**VISHAL WAGHAMARE** from **Vivekanand College** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay.

**Credits: 4    Score: 77.78%**

June 20th 2022

  
**Prof. Kannan M Moudgalya**  
IIT Bombay

Credits for the Spoken Tutorial courses are based on our estimates of the work required to complete them. Recipient institutions are required to apply due diligence and get them ratified/modified by their own duly formed academic/assessment body. Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India.