



GOVERNMENT OF WEST BENGAL
OFFICE OF THE PRINCIPAL
Maulana Azad College



8, RAFI AHMED KIDWAI ROAD, KOLKATA 700013, INDIA

Phone: 033 2249-3737/2226-7814 e-mail: maulanaazadcollegekolkata@gmail.com

Website: <https://maulanaazadcollegekolkata.ac.in>

Summary Report, Meeting Notice, Meeting Resolution, Course Brochure/Curriculum, Course outcomes, Sample Certificate

8. Spoken-Tutorial Project, IIT Bombay. (Online Course)

Summary Report of the Course

Course Name: **Spoken-Tutorial Project, IIT Bombay. (Online Course)**

Organizing Department: **Indian Institute of Technology, Bombay**

Course Duration: **3 Months (25.01.2020 - 27.03.2020)**

No. of Enrolled Students: 146

No. of student completed the course: 146

About the course:

IITB-ST (Spoken Tutorial) an NMEICT, MHRD, Govt., of India initiative to provide MOOC/ETutor training for IT courses to UG/PG students of affiliated colleges. The MOOC E-Tutor is an easy self learning audio-video method to master software like Linux, LaTeX, C, C++, Java, PHPMySQL, Drupal for Web development, Blender for animation and many more. Certificates will be awarded to all students who undergo the training. The IITB-ST Program comes at a nominal

Subscription fee of Rs. 25000/year/ college for training and certifying an unlimited number of students.

Participation of our college:

Our college paid the requisite fee and submitted all the relevant papers on **16th December, 2019** and thereby facilitated students to learn the courses free from their ends. In the first year, students of **THREE** departments, viz **Physics, Mathematics and Statistics**, were involved in this program. Students of those three departments who took admission in **2017,2018 and 2019** were offered to take the opportunity of this great learning. **I myself, Nanda Das and Partha Pal** are in charge of communicating with students of Physics, Mathematics and Statistics respectively. Overall, I was appointed as a **Faculty Organiser (FO)** to start the program. I started communication with **Mr. Fariduddin Masud, the then IITB-ST West Bengal manager**, to start the program in our college.

Participation of students:



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The details of students, as on **December, 2019**, who participated in the program is enclosed herewith. I sent the students details to Mr. Fariduddin Masud on **23rd December, 2019**. The students were supposed to start their course from **January, 2020**. Mr. Masud sent a suggested course for our students on **7th January, 2020**. Based on suggested courses, sent by Mr. Masud, we finalized the course for our students and shared the same with Mr. Masud on **21st January, 2020**.

Here is a summary of students' list:

Sl. No.	Semester Start Date	Software Course	Department	Year/Sem	No. of Students
1	Jan. 25, 2020	Python - Python 3.4.3	B.Sc. Physics (H)	3 rd Year	22
2	Jan. 27, 2020	Python - Python 3.4.3	B.Sc. Physics (H)	1st Sem	18
3	Jan. 27, 2020	Python - Python 3.4.3	B.Sc. Physics (H)	3 RD Sem	17
4	Jan. 27, 2020	Python - Python 3.4.3	B.Sc. Mathematics (H)	3 rd Year	16
5	Jan. 27, 2020	C and Cpp.	B.Sc. Mathematics (H)	3 RD Sem	18
6	Jan. 27, 2020	C and Cpp.	B.Sc. Mathematics (H)	1st Sem	22
7	Jan. 27, 2020	R	B.Sc. Statistics (H)	3 rd Year	16
8	Jan. 27, 2020	R	B.Sc. Statistics (H)	3 RD Sem	02
9	Jan. 27, 2020	C and Cpp.	B.Sc. Statistics (H)	1st Sem	15
Total=					146

Status of the course in lockdown situation:

While students were doing the online course in full fledged, then comes Covid situation. Due to this, students were going through different phases of lockdown and closure of college. That situation still prevails. I was in contact with Mr. Masud who told me that on completion of those courses, students must physically present in their college to sit for an online examination, when the college will reopen. But that situation did not happen so far. However, since students participated in the online learning process, they issued **participation certificates** to all the students. I sent their certificates to the concerned teachers of three departments to distribute among students. Meanwhile, the manager of the Bengal Circle of this program has been changed and I am presently in talking with the new manager **Mr. Vinu Joseph** to resolve different matters including conducting test in online mode, proceeding the courses in future etc.

Enclosure:

1. e-Brochure of the training program
2. Detailed student list

Dr. Sanjay Chattopadhyay 2nd June, 2021

Assistant Professor, Department of Physics

Maulana Azad College, Kolkata-13

Sanjay Chattopadhyay
Associate Professor
Department of Physics
Maulana Azad College
8, Rafi Ahmed Kidwai Rd
Kolkata - 700013
Govt. of West Bengal



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Institutional Notification



भारतीय प्रौद्योगिकी संस्थान मुंबई
पवई, मुंबई-400 076, भारत

Indian Institute of Technology Bombay
Powai, Mumbai-400 076, India

दूरभाष/Phone : (+91-22) 2572 2545

फैक्स/Fax : (+91-22) 2572 3480

वेबसाइट/Website : www.iitb.ac.in

IIT Bombay

Greetings from the Spoken Tutorial Project!

We are truly grateful for the prompt Payment made to continue the Training in your colleges. This indicates a high degree of acceptance of the numerous benefits the Spoken Tutorial Courses are providing to the students. Thank you for the same.

Find below the acknowledgement of Payment of Rs. 25000/- made by MAULANA AZAD COLLEGE on 30-Sept-2019.

The UTR / Transaction Number/ Cheque no is : 5227022

Please treat this as a formal receipt. The official invoice will soon be generated from our Accounts end and will reach you.

For and On behalf of
Spoken Tutorials,
Indian Institute of Technology Bombay

Shyama Iyer.

Mrs. Shyama Iyer
National Coordinator
Spoken Tutorial Project, IIT Bombay



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E-Brochure & Course Module

Spoken-tutorial Project, IIT Bombay

E-Brochure

Name of FOSS	Applications	Commercial equivalent	Employability	Department
Linux - Ubuntu	Virus free, robust, Operating System	Windows	Technician or System administrator for Computer Vendors (SME's), Indian Railways, Municipal Corporations, Air India and many SME's	Computer Science, IT, ECE, Electronics
LibreOffice -	Basic computer usage Office suite for documents, spreadsheets, presentations, database etc.	MS-Office	Administration, Data entry personnel, Travel Agency Assistant, Indian Railways, Municipal corporations, Govt. offices	All the departments including Schools
Writer	Word Processing, Documentation	Word		
Calc	Spreadsheets	Excel		
Impress	Presentations	Powerpoint		
Base	Managing Databases	Access		
Draw	Drawing	Windows-based Visio		
Math	Mathematical Operations	Math Type		
PHPMySQL	Web development and Database Management	.NET	Website Developer in all types of small and large enterprises, popular companies hiring PHP & MySQL trained persons are Air-India, Bridge & Roof Co., Media channels, agencies etc.	Computer science and IT
C/C++, Java, Netbeans and Python	Programming language		Programmer in SMEs working in C, Java, Netbeans and Python, Lab- Assistant in colleges, Popular companies requiring programmers on C /C++, Java and Python are HCL technologies, Wipro, L&T, TCS	Computer Science and IT



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Name of FOSS	Applications	Commercial equivalent	Employability	Department
Scilab	Scientific computation package for numerical computations	Matlab	Value addition in technical problem solving via use computational methods for engineering problems, Applicable in Chemical, ECE, Electrical, Electronics, Civil, Mechanical, Mathematics, etc.	Computer science, IT, ECE, Electronics, Mechanical
LaTeX	Document markup language and preparation system for Tex typesetting	MS-Word	Value addition to academic Skills set, Essential for International paper presentation and scientific journals.	All the departments
OpenFOAM	For Fluid Mechanics to solve and create fluid movies	Fluent	Companies like AUDI, Tata Steel, Volkswagen, etc. have started using it. Also Indian Govt. agencies like BARC (Bhabha Atomic Research Center) are making use of this free software	Mechanical
Oscad - now eSIM	EDA tool for circuit design, simulation, analysis and PCB design. It is an integrated tool built using open source software such as KiCad, Ngspice and Scilab.	Orcad	PCB designer in SME's and academic institutions, Lab assistant for Electronic Circuit Lab, Electronic network designer.	ECE, Electronics, EEE, Electrical
Firefox	Web browser	Internet Explorer	System Administrator and Lab assistant in SME's and academic institutes.	All the departments
GIMP	Image Editing and Graphic Design	Photoshop	Self employed photo editor, editor in photostudios, graphic design job in gift stores, advertising agencies, etc.	Arts and Textile designing, Fashion designing, Architecture
Q-CAD	Basic 2D design and drafting	AutoCAD		
Blender	Animation and Computer Graphics	Maya 3D	Animator in graphic and animation media, film etc. Sectors, such as advertising computer games, TV, education, interior-decoration, etc.	Arts, Design



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Name of FOSS	Applications	Commercial equivalent	Employability	Department
Ruby	Programming language		Ruby was used to implemented the reactive control part for the Siemens service robot, Ruby Web Dialogs based app to manage and track oncall and on-site support for the IT help desk and IT operations teams,	Simulations, 3D Modeling, Business, Robotics, Networking, System Administration, etc.
Perl	High-level programming language		Perl has been called the system administrator's best friend for its ability to make common tasks easy. Perl's process, file, and text manipulation facilities make it particularly well-suited for tasks involving quick prototyping, system utilities, software tools, system management tasks, database access, graphical programming, networking, and web programming,	Web developers, system administrators, Mathematicians, geneticists, journalists, managers, etc.
Jmol Application	Jmol applet is used to explore the structure of molecules. Jmol applet is used to depict X-ray structures.		Jmol returns a 3D representation of a molecule that may be used as a teaching tool, or for research e.g. in chemistry and biochemistry. There is a standalone application and a development tool kit that can be integrated into other Java applications.	Chemistry, Biochemistry
Cell Designer	Software for Planning & Designing Wireless Communication Systems, Modeling tool		CellDesigner has fully implemented the Korowajczuk 3D model, capable of performing simultaneously outdoor and indoor multi-floor predictions.	BioScience and Biotechnology
GChemPaint	GChemPaint is an editor for 2D chemical structures with a multiple document interface.		GChemPaint is currently being developed as part of The Chemistry Development Kit, and a Standard Widget Tool kit-based GChemPaint application is being developed, as part of Bioclipse,	School level Chemistry
Inkscape	Graphic Designing	Adobe Illustrator, Coreldraw	Photo editing, Photo Manipulation and Graphic Design	All the departments including Schools



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Name of FOSS	Applications	Commercial equivalent	Employability	Department
Bash	Bash is a "Unix shell" commandline interface for interacting with the operating system. Bash has the ability to run an entire script of commands, known as a "Bash Shell script" or "Shell script".		Familiarity with GNU/ Linux command lines, and familiarity with basic programming concepts is a prerequisite for learning BASH. System administrators will greatly benefit by learning to automate common tasks using BASH.	System administrators
Ascend	ASCEND is a free, open source, mathematical modelling system.		Its main uses have been in the field of chemical process modelling, with its novel modelling language conventions and powerful solver.	Chemical Engineering
Joomla	Content Management System		To build Website.	All the Departments
Biopython	Tool for Computational Biology and Bioinformatics,		To access online database such as NCBI. It can perform common operations such as transcription, translation, obtain complements, reverse complements, parsing, running BLAST.	Biology, Biochemistry and Dept. of Bioinformatics,
Java Business Application	To create a business application from scratch. Example : Library Management System		To built the business application and provide domain expertise	Computer Science and IT
Kturtle	An educational programming environment which helps in learning how to build logic and how to program, in an easy manner.		Some of its features are : intuitive syntax highlighting, simple error messages, integrated canvas to make drawings on, integrated help function, slowmotion or step execution, and more,	School level
Ktouch	Typing tutor teaches how to type using an online interactive keyboard		Learn typing at your own pace. Gradually increase your typing speed and along with it, your accuracy,	

www.spoken-tutorial.org

Link for matching courses using spoken-tutorial

http://process.spoken-tutorial.org/images/7/72/Matching_spoken-tutorial.pdf



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Course Outcomes

The Spoken-Tutorial Project, an initiative by the Indian Institute of Technology (IIT) Bombay, aims to promote IT literacy through self-paced, multimedia tutorials. Here are some notable outcomes of the project:

1. **Enhanced IT Literacy:**

- Provides free and easy access to tutorials on various software and programming languages.
- Targets learners from schools, colleges, and the general public, improving their IT skills and employability.

2. **Skill Development:**

- Covers a broad range of topics including basic computer skills, advanced programming, and specialized software.
- Supports skill development in students, teachers, and professionals.

3. **Collaborations and Support:**

- Partnered with various government and educational bodies to expand its reach.
- Supported by the National Mission on Education through Information and Communication Technology (NMEICT).

4. **Certification and Recognition:**

- Offers certification to learners who complete the tutorials and pass an online test.
- Recognized as a valuable resource for skill enhancement and professional development.

The project has significantly contributed to spreading digital literacy and enhancing the technical skills.



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Sample Certificate



Spoken Tutorial
Project at
IIT Bombay

Certificate of Participation

This is to certify that **TUHIN SUR** participated in the **Python 3.4.3** training organized at **Maulana Azad College** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Python 3.4.3** were covered in the training.

March 27th 2020

Prof. Kannan M Moudgalya
IIT Bombay

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



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