

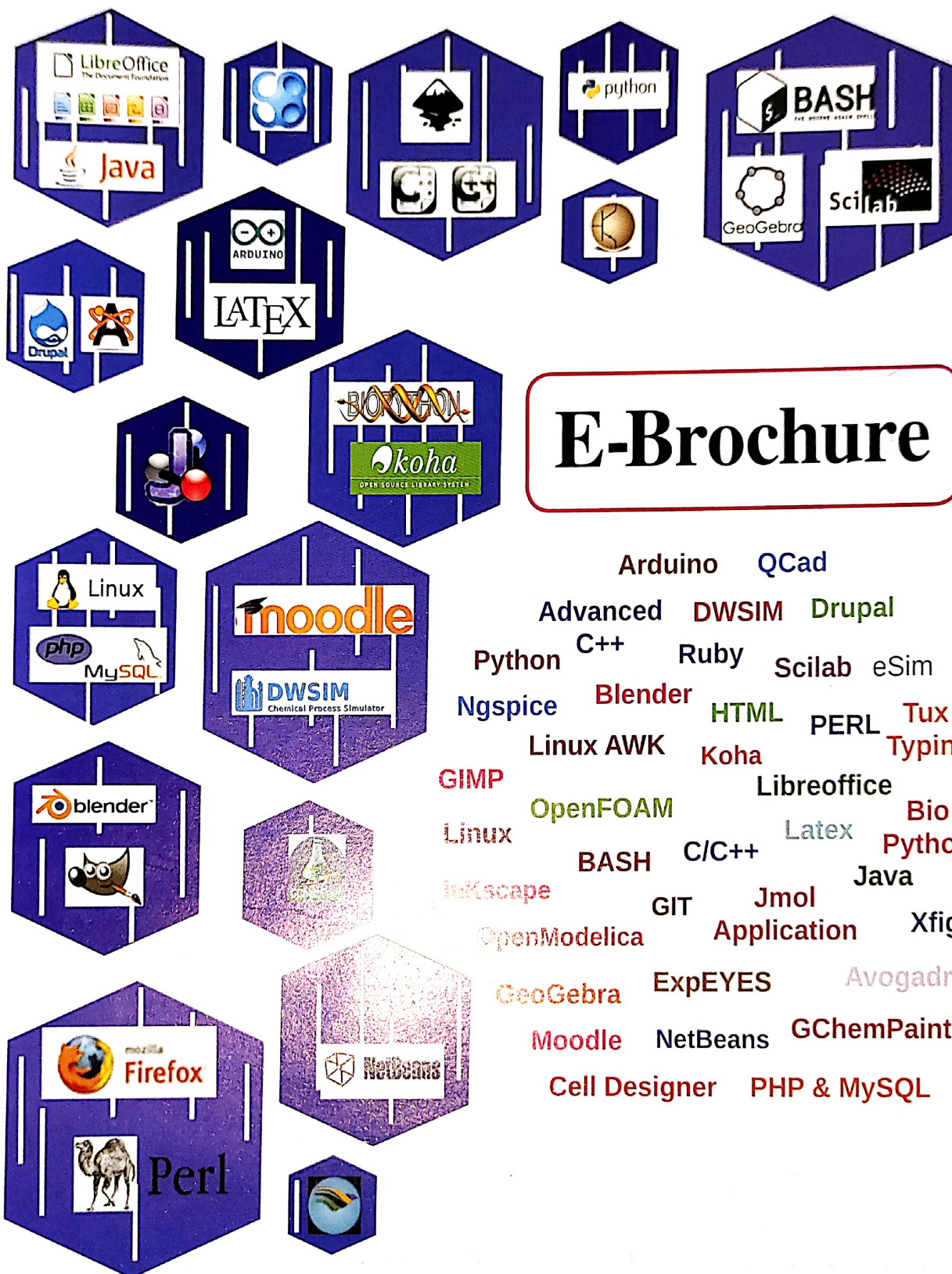


Spoken Tutorial

Learn Free and Open Source Software
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Very Low Cost



IIT Bombay



E-Brochure

Arduino Qcad

Advanced DWSIM Drupal

Python C++ Ruby Scilab eSim

Ngspice Blender HTML PERL Tux
Linux AWK Koha Typing

GIMP Libreoffice

OpenFOAM Linux Latex Bio

BASH C/C++ Python Java

Inkscape GIT Jmol Xfig

OpenModelica Application Avogadro

GeoGebra ExpEYES GChemPaint

Moodle NetBeans PHP & MySQL

Cell Designer

Basic Comp	
Software / FOSS name	Applications / Skills & Employability
Introduction to Computers	How to use computers for day-to-day 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 (JBA), Netbeans	C is the most popular language worldwide. Java is also popular with ability to run the same program on different systems relevant to World Wide Web <i>software</i>. NetBeans is an opensource integrated development environment (IDE). JBA is used to create business applications.
GIT	GIT is a version-control system for tracking changes in computer files and coordinating work on those files among multiple people.

Modeling and Simulation	
Scilab	Scilab is a great open source alternative to Matlab, useful to all branches of science and engineering. Its code base of 75,000 examples help reduce the effort of faculty in setting quiz, lab assignments and question papers.
DWSIM	DWSIM is a software for modeling, simulation, and optimization of steady-state 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.
OpenFOAM (Like Fluent)	Computational Fluid Dynamics (CFD)
eSim (Oscad)	Tool for circuit design, simulation, analysis and PCB design.

Multimedia / Drawing

GIMP (like Photoshop)	GIMP is a graphics editor used for image retouching and editing, free-form drawing etc.
Inkspace (like CorelDraw)	Inkspace designs and creates a wide variety of graphics such as illustrations, icons, logos, diagrams, maps and web graphics.
Blender (like Maya, 3D Max)	Blender is a 3D computer graphics software toolset used for creating animated films, visual effects, art, 3D printed models, games.
QCad	QCAD is used to create technical drawings such as plans for buildings, interiors, mechanical parts or schematics and diagrams.

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.

Scripting Languages

Python	Used for web programming eg. Django, Zope, Google App Engine, Desktop applications, Web Development sites eg. Facebook, Google search, Wikipedia.
PERL	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.
PHP & MySQL	Used as Web development and Database Management Systems package.

Web Development

Drupal	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.
Ruby	Ruby is an object oriented scripting language used widely for developing web applications.
Joomla	Joomla is a popular Content Management System (CMS). Useful to manage the content of website. User can create, edit, modify and remove content from a website without any programming skills.

Chemistry / Bio-Chemistry

Avogadro	Avogadro is a molecule editor and visualizer.
GChemPaint	GChemPaint allows you to draw and display 2D chemical structures. Very useful to teach and learn abstract chemistry concepts.
Cell Designer	Cell designer is a drawing tool – a structured diagram editor for biochemical networks & gene-regulatory drawings.
Jmol Application	It is used for molecular modelling of chemical structures in 3 dimensions. eg. In molecular biology pertinent structures.
Biopython	Tool for Computational Biology and Bioinformatics.

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.
OpenPLC	OpenPLC is an open source Programmable Logic Controller. This Cost effective, robust, dynamic and modular hardware with open source software (Ldmicro) enables students to learn Industrial automation using Ladder Logic programming language. It is one of the widely used languages in automation industries.

Learning Management System

Moodle	Moodle is a learning management system or an online platform for customized learning, assignment and assessment purposes.
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Mathematical Typesetting Software

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.
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31	B. Sc 3rd Yr.	16	SARITA KUMARI CHAUHAN	6002022704	Female	saritakumarichauhan61@gmail.com	BOTANY
32	B. Sc 3rd Yr.	20	KINGSON KATHAR	8822851931	Male	Kingsonkathar1@gmail.com	BOTANY
33	B. Sc 3rd Yr.	22	SUMITRA BALA DAS	6003981330	Female	sumitrayayshagor@gmail.com	BOTANY
34	B. Sc 3rd Yr.	25	PRIYA SARKAR	8403973985	Female	priyasarkar58790@gmail.com	BOTANY
35	B. Sc 3rd Yr.	26	SANCHITA PAUL	9954807645	Female	sanchitapaul237@gmail.com	BOTANY
36	B. Sc 3rd Yr.	30	MANJIL ROY	8638294716	Male	manjilroy5@gmail.com	BOTANY
37	B. Sc 3rd Yr.	33	RAHUL DEBNATH	8753933129	Male	rahuldebnath39037@gmail.com	BOTANY
38	B. Sc 3rd Yr.	43	RAVI KUMAR PRASAD	6003905191	Male	prasadravikumar13@gmail.com	BOTANY
39	B. Sc 3rd Yr.	45	ISHIKA DEY	6900679321	Female	deyishika12@gmail.com	BOTANY
40	B. Sc 3rd Yr.	46	RUSTOM TERANG	9394037498	Male	.mrrstmr@gmail.com	BOTANY
41	B. Sc 3rd Yr.	60	AMAR BARUA	8473854187	Male	amarbarua2002@gmail.com	BOTANY
42	B. Sc 3rd Yr.	63	SASANKAR DAS	9365129976	Male	sasankard267@gmail.com	BOTANY
43	B. Sc 3rd Yr.	68	MONISHA CHAUHAN	9365907259	Female	manishachouhan7438@gmail.com	BOTANY
44	B. Sc 3rd Yr.	75	BINONG ENGTI	9864795208	Male	binongengti06@gmail.com	BOTANY
45	B. Sc 3rd Yr.	76	VISHAL SAH	7635892603	Male	vishalsah709@gmail.com	BOTANY
46	B. Sc 3rd Yr.	77	GITA KUMARI CHAUHAN	8823971799	Female	gita9395367990@gmail.com	BOTANY
47	B. Sc 3rd Yr.	78	BIJAY CHAUHAN	7002967591	Male	bijaychauhan2542002@gmail.com	BOTANY
48	B. Sc 3rd Yr.	80	SAMAR GHOSH	8822172535	Male	samarghosh0511@gmail.com	BOTANY
49	B. Sc 3rd Yr.	92	PRATAP SINGH CHAUHAN	9678343629	Male	singhpratapchauhan2001@gmail.com	BOTANY
50	B. Sc 3rd Yr.	93	SOBINA TERANGPI	9394601862	Female	sobinaterangpi@gmail.com	BOTANY
51	B. Sc 3rd Yr.	98	TANOYDEEP SARKAR	9365257619	Male	tanoydeepsarkar@gmail.com	BOTANY
52	B. Sc 3rd Yr.	105	NISHA SHARMA	7099654946	Female	ishanisharma2214@gmail.com	BOTANY
53	B. Sc 3rd Yr.	106	SARKIRI INGTI	6003678423	Male	ingtisarkiri600@gmail.com	BOTANY
54	B. Sc 3rd Yr.	108	ROHIT SING RAM	9365741217	Male	8638603146ram@gmail.com	BOTANY



Office of the
Internal Quality Assurance Cell
Lumding College

Lumding, Hojai, Assam, 782447

To

Date - 15-05-2023

The Principal

Lumding College, Lumding, Hojai, Assam-782447

Greetings from IQAC, Lumding College

Respected Sir

In continuation of our sincere efforts for NAAC assessment it is quite necessary to introduce more certificate course/add on course as per criteria 1.2.1 and with reference to the above cited subject, we the undersigned is pleased to inform you that in an informal meeting with the HoDs and faculties of various science departments held on 27th April, 20023, considered the matter of introducing various certificate courses in association with Spoken Tutorial – IIT Bombay & become a knowledge partner to ST, IIT Bombay. Spoken Tutorial Project is Funded by National Mission on Education through ICT, MHRD, Govt. of India. The certificate courses will definitely boost efficiency, increase the competitive advantages, professional credibility of the students of BSc Courses. Moreover, the certificate courses will help the students to learn, grow and build their knowledge, skills and authenticate their credentials.

Considering the fact, a decision has been made to introduce the Certificate courses for the students in the departments of science stream with a minimum admission fees of Rs. 300/- per student. The students can enroll more than one courses (within the jurisdiction of the department) as per their eligibility with the same enrollment fees. The consultant ST, IIT Bombay partner will provide various courses training for MOOCS and open source software's and the course syllabus, study materials etc., and after online examination, the students will be awarded with online certificates of the opted courses for the students.

So far the certificate courses are concerned, the following departments have shown their keen interest & positive attitude in the informal discussion towards introducing the certificate courses and later on submitted letter of expression for introducing the certificate courses from Spoken Tutorial.

Sl. Nos	Departments	Title of Certificate Course
1	Physics	ii) C, ii) C++
2	Mathematics	ii) Scilab, ii) LaTeX
3	Chemistry	ii) Jmol Application, ii) Chem Collective Virtual Labs
4	Botany	ii) Cell Designer
5	Zoology	ii) Waste Management ii) Biopython,



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Lumding, Hojai, Assam, 782447

It's an earnest request to you to approve the Swayam enlisting Spoken Tutorial Courses immediately (ST, IIT Bombay) so that at least minimum benchmark under NAAC criteria 1.2.1 is fulfilled.

Considering the value of add on courses as per NAAC criteria 1.2.1, if we conduct at least 25 and above courses, then full marks under such criteria can be achieved. In this regard you are hereby requested to submit formal proposal so that courses may be introduced shortly.

With Regards.

Coordinator IQAC

Lumding College, Lumding, Hojai, Assam

Co-ordinator
IQAC
Lumding College
Lumding, Hojai, Assam

15/05/2023

To
The Co-Ordinator, IQAC
Lumding College, Lumding, Nagaon, Assam

Sub : Regarding Expression of Interest in Introducing a certificate / Add-on course

Sir,

Department of Mathematics , Lumding College is interested in introducing a certificate/
Add-on course on LaTeX and Scilab.

Department	Title of Certificate Course	Course Co-ordinator	Programme Co-ordinator
Mathematics	SciLab	Sri Shio K Jha	Dr.Mwbilib Basumatary
Mathematics	LaTex	Sri Shio K Jha	Mr Pradip B Chetri

Regards
Department of Mathematics
Lumding College, Lumding

To

The Coordinator, IQAC

Dated: 11.05.2023

Lumding College,

Lumding,

Hojai,

Assam

Subject: Regarding Expression of Interest in Introducing Certificate/Add-on course.

Sir,

Department of Chemistry, Lumding College is interested in introducing a
Certificate/Add-on Course on

i) Jmol application

ii) Chem collective Virtual Labs.

Department	Title of Certificate Course	Course Coordinator	Programme Coordinator
Chemistry	i) Jmol application	Dr. Satyajit Dey	Sudhangshu Priya
	ii) Chem collective Virtual Labs.	Baruah	Bharati

With regards

Department of Chemistry
Lumding College,
Lumding,
Hojai, Assam

To

The Co-ordinator, IQAC.

Lumding College, Lumding.Hojai, Assam.

Dated Lumding the 11th May 2023

Sub : Regarding Expression of Interest in Introducing online Certificate/Add-on Course.

Sir

Department of Physics,Lumding College is interested to introduce an online certificate Course as an add-on to the conventional courses.

The details of the certificate course are given below.

Department	Title of Certificate Course	Course coordinator	Programme coordinator
Physics.	C & C++ Language	Biman Acharjee	Bablu Basumatary


(Biman Acharjee)
H.o.D. Physics
Lumding College, Lumding

11/5/2023

12/05/2023

To,

The Co-ordinator

ISAC, Lunding College, Lunding

Subject :- Regarding introduction of Add on courses.

Respected Sir

With reference to subject cited above, we the faculty members are interested to introduce the following Add on courses for the students of the institution in the department of Zoology, Lunding College.

1. Waste management - } - Course Coordinator - Dr. Satyajit Das.
2. Biopython } - Programme Co-ordinator - Dr. Abhishek Majumder.
3. Sericulture
4. Induced breeding in freshwater fishes.

With regards !

Thanking You

Sanghamitra Das (Bore)
HOD, Zoology.

To
The Co-Ordinator, IQAC
Lumding College, Lumding, Hojai, Assam

10/05/2023

Sub: Regarding Expression of Interest in Introducing Certificate/ Add-on Course.

Sir

Department of Botany, Lumding College is interested in introducing a Certificate/
Add-on course on **Cell Designer**.

Department	Title of Certificate Course	Course Coordinator	Programme Coordinator
Botany	Cell Designer	N.S.S. Choudhury	Shaleh Akram

Regards
Department of Botany
Lumding College,
Lumding, Hojai, Assam

N.S.S. Choudhury



Office of the
Internal Quality Assurance Cell
Lumding College
Lumding, Hojai, Assam, 782447

To

The Head

Department of



Lumding College, Lumding, Hojai, Assam-782447

Subject: Introducing Certificate/Add on courses

Greetings from IQAC, Lumding College

Respected Sir/Madam

Hope that all of you are working very sincerely and wholeheartedly on the task assigned to you for the betterment and upliftment of the academic and other activities of the institution.

In continuation of our sincere efforts for NAAC assessment, it is quite necessary to introduce more certificate courses/add on courses as per criteria 1.2.1 and with reference to the above cited subject, we the undersigned is pleased to inform you that in an informal meeting with the HoDs and faculties of various science departments held on 27th April, 2023, considered the matter of introducing various certificate courses in association with Spoken Tutorial – IIT Bombay & become a knowledge partner to ST, IIT Bombay. Spoken Tutorial Project is Funded by National Mission on Education through ICT, MHRD, Govt. of India. The certificate courses will definitely boost efficiency, increase the competitive advantages, professional credibility of the students of BSc Courses. Moreover, the certificate courses will help the students to learn, grow and build their knowledge, skills and authenticate their credentials.

Considering the fact, a decision has been made to introduce the Certificate courses for the students in the departments of science stream with a minimum admission fees of Rs. 300/- per student. The students can enroll more than one courses (within the jurisdiction of the department) as per their eligibility with the same enrollment fees. The consultant ST, IIT Bombay partner will provide various courses training for MOOCs and open source software, the course syllabus, study materials etc., and after online examination, the students will be awarded with online certificates of the opted courses.

So far the certificate courses are concerned, the following departments have shown their keen interest & positive attitude in the informal discussion towards introducing the certificate courses.

Sl. Nos	Departments	Title of Certificate Course
1	Physics	i) C, ii) C++, iii)
2	Mathematics	i) Scilab, ii) LaTeX, iii)



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Sl. Nos	Departments	Title of Certificate Course
3	Chemistry	i) Jmol Application, ii) Chem Collective Virtual Labs. iii)
4	Botany	i) Cell Designer, ii)
5	Zoology	i) Waste Management ii) Biopython, iii)
6	Geology	i) QGIS

It's an earnest request to all the respected HoDs to frame out more add on courses either from the list of ST, IIT Bombay or to frame out new add on courses of their own so that at least minimum benchmark under NAAC criteria 1.2.1 is fulfilled.

Considering the value of add on courses as per NAAC criteria 1.2.1, if we conduct at least 25 and above courses, the full marks under such criteria can be achieved. In this regard, you are hereby requested to submit formal **Expression of Interest** citing the names of Courses, Course Coordinator and Programme Coordinator in introducing Add on Courses/Certificate Courses in your departments within 10th May 2023.

Thank You! with kind regards

AN/
PM
Principal
Lumding College, Lumding,
Hojai, Assam

Principal
Lumding College
Lumding, Hojai, Assam

(Dr. Sanjay Kanti Das)

Co-ordinator, IQAC
Lumding College, Lumding
Hojai, Assam, India

Co-ordinator
IQAC
Lumding College
Lumding, Hojai, Assam

Satyajit Dey Baruah
29/04/23

Pradip B Chel
29/04/23

29/04/23

29/04/23

Pradip B Chel