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Report on Spoken Tutorial

To enhance the skills of the students and faculties college took the subscription of spoken tutorial which is self-paced, multi-lingual courses which ensure that anybody with a computer and a desire for learning can learn from any place, at any time and in a language of their choice. Many students from various departments enrolled for various courses and got the certificate after successful completion of the course.

Year 2019-2020				
S. No.	Particular	No. of Enrollment	No. of Certificate Issued	Achievement
01	Student/Faculties	507	507	100%





RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA

(State Technological University of Madhya Pradesh)

[Accredited with 'A' grade by NAAC]

Office of TEQIP-III

Airport Road, Gandhi Nagar, Bhopal - 462033

Ph.No:0755-2678805 website: www.rgpv.ac.in mail-rgpvteqip@rgtu.net

Ref No.RGPV/TEQIP-III/2019/03/434

Date: 05.08.2019

To,

Directors/Principals

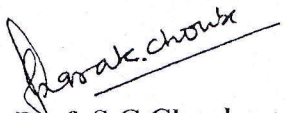
RGPV Affiliated Institutions

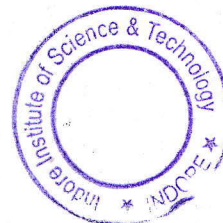
Subject: Regarding Spoken Tutorial Programme.

IITB-ST is an NMEICT, MHRD, Govt.of India initiative to provide MOOC training, E-Tutor for many IT lab courses in syllabus and enhance employability Skill set of UG/PG students. The MOOC E-Tutor is an easy self-learning audio-video method to acquire knowledge on many software like Linux, LaTeX, C, C++, Java, PHPMySQL, and Drupal for Web development and many more.

In this regard you are requested to organize above mentioned activity at your campus and nominate faculty coordinator from respective department and send their details to Smt. Anita Kedare, Training Programmer, IIT Bombay/MHRD, Contact No 9321530562 or email anita.stpiitb@gmail.com with a copy to undersigned. Nominated faculty will coordinate with her for details to organize the training. The IITB-ST Program comes at a nominal subscription fee of Rs. 25000/- per year basis for training and certifying an unlimited number of students. As Spoken Tutorial Programme is an initiative of MHRD to improve Employability Skill in students of affiliated institutions, TEQIP-III will contribute 50% of the certification/training fees and remaining 50% amount by the institution itself.

Prof Sunil Kumar, Hon'ble Vice Chancellor, RGPV has advised to the students to participate in Spoken Tutorial Training Programme. Institutions willing to get registered for this programme may contact at TEQIP-III office.


Prof. S C Choube
Coordinator, TEQIP-III
RGPV, Bhopal

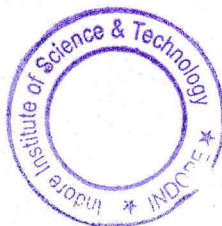


S.P.O.C.

DATE: 15/01/2020

NOTICE

This is to inform you that we have taken subscription of spoken tutorial which is multi awarded wining educational content portal. All the students and faculties have the opportunity to do the certification in various courses. The faculty coordinator for the session 2019-20 will be Mr. Shailendra Singh, Assistant Professor, Civil Engineering Department. I request all the student and Faculty/staff to register and do the certification for enhancement of the skills and learn emerging areas.



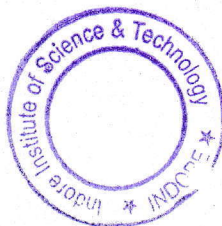
V.K. Nar
PRINCIPAL

S.P.O.C.

DATE: 15/01/2020

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V.K. Nar
PRINCIPAL

IIST Log-in Page

2-Day Python-Django workshop. [Click here to register.](#)
FOSSEE Summer Fellowship 2022. [Click here to register.](#)

Spoken Tutorial Software Training • Creation • News • Academics • About • Forums • Statistics •

Spoken Tutorials for Education, Employment and Empowerment | Kannan Moudgalya | TEDxNMIMSShipur. [Click here to see the video.](#)

-- All Courses -- -- All Languages -- [Search](#) [Log Out](#)

For the purpose of course selection, go here : Software Offered

Re-Engineering India Award 2020 Reimagine Education Award 2015 Nomination for HT for Mumbai Awards 2015 Google MOOCs Research Award 2015

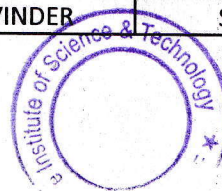
Spoken Tutorial
An Initiative of National Mission on Education through ICT, MoE, Govt. of India, to promote IT literacy through Open Source Software



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S.No.	Course_Title	Date of Registration	Name of the Student/Faculty	
1	DWSIM	22/01/2020	FIRST NAME	LAST NAME
2	DWSIM	22/01/2020	ANIKET	PATRIKAR
3	DWSIM	22/01/2020	HARSHIT	KHARPE
4	DWSIM	22/01/2020	OM LAVKUSH KUMAR	TRIPATHI
5	DWSIM	22/01/2020	PRITAM	KUMAR
6	DWSIM	22/01/2020	SACHIN	PATIL
7	DWSIM	22/01/2020	ABHIJIT SINGH	DEVRA
8	DWSIM	22/01/2020	RAJKUMAR	DHAKAD
9	DWSIM	22/01/2020	RASHI	NIGAM
10	DWSIM	22/01/2020	PRASHANT	KUMBHKAR
11	DWSIM	22/01/2020	RAHUL	GUPTA
12	DWSIM	22/01/2020	FARHIN	KHAN
13	DWSIM	22/01/2020	RAHUL	BHARGAVA
14	DWSIM	22/01/2020	PANKAJ	MALVIYA
15	Q Cad	22/01/2020	ADARSH	TIWARI
16	Q Cad	22/01/2020	AMAN	CHOUDHARY
17	Q Cad	22/01/2020	AMIT	BARMAN
18	Q Cad	22/01/2020	ANIL DAS	BAIRAGI
19	Q Cad	22/01/2020	ANKIT	CHOUHAN
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21	Q Cad	22/01/2020	HARSH	PARIHAR
22	Q Cad	22/01/2020	HERITRAJ SINGH	TANWAR
23	Q Cad	22/01/2020	HRITIK	BAWDIWALA
24	Q Cad	22/01/2020	JAYESH	PRAJAPAT
25	Q Cad	22/01/2020	JINESH	KHASGIWALA
26	Q Cad	22/01/2020	KANHAIYA	PANWAR
27	Q Cad	22/01/2020	OJASWA	DUBEY
28	Q Cad	22/01/2020	PAVAN	THAKUR
29	Q Cad	22/01/2020	PRANAY	BAWNE
30	Q Cad	22/01/2020	PRAVEEN KUMAR	YADAV
31	Q Cad	22/01/2020	RISHAB	SONI
32	Q Cad	22/01/2020	RITESH	PARMAR
33	Q Cad	22/01/2020	ROHIT	SHARMA
34	Q Cad	22/01/2020	SACHIN	MISHRA
35	Q Cad	22/01/2020	SANDEEP	SAWLIYA
36	Q Cad	22/01/2020	SANSKAR	SHARMA
37	Q Cad	22/01/2020	SHIVENDRA	SINGH
38	Q Cad	22/01/2020	SUDHIR	ZALAYA
39	Q Cad	22/01/2020	YASH	MAKODE
40	Q Cad	22/01/2020	YOGESH	BIRLA
41	Q Cad	22/01/2020	ABHISHEK	THAKARE
42	Q Cad	22/01/2020	PRADHUMN	CHANDRAWAT
43	Q Cad	22/01/2020	USMAN GANI	KHAN
44	PHP and MySQL	22/01/2020	RAVINDER	SINGH

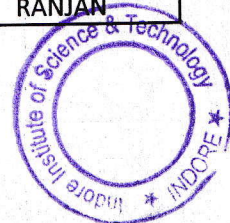
B



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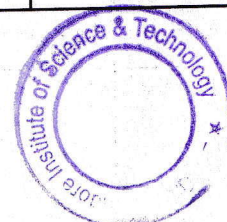
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84	PHP and MySQL	22/01/2020	MANISH	CHOUDHARY
85	PHP and MySQL	22/01/2020	ABHIRAJ SINGH	THAKUR
86	PHP and MySQL	22/01/2020	SHUBHAM	CHAWRA
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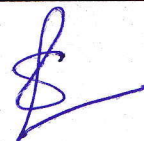
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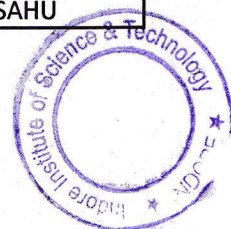
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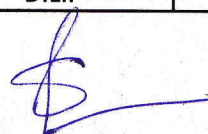
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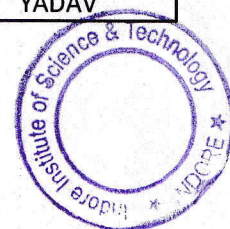




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228	C & C++	10/2/2020	DILIP	YADAV





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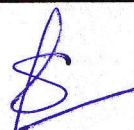
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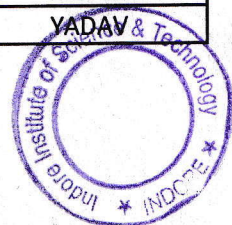
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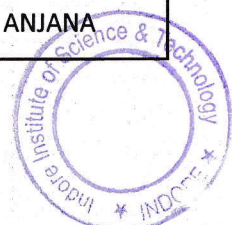
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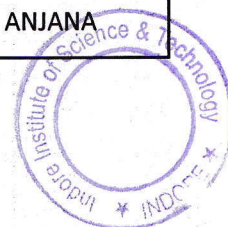
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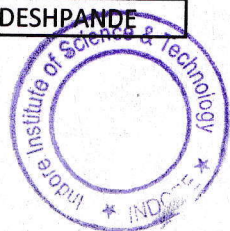
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502	C & C++	10/2/2020	VIVEK	JAIN
503	C & C++	10/2/2020	VIVEK	MAHAJAN
504	C & C++	10/2/2020	YASH	CHOUDHARY
505	C & C++	10/2/2020	MOHD. AYAN	ABBASI
506	C & C++	10/2/2020	AYUSH SINGH	PANWAR
507	C & C++	10/2/2020	ANSHIKA	NEMA



Sample Certificates



Certificate of Participation

This is to certify that **AARTI BHAWSAR** participated in the **C and Cpp** training organized at **Indore Institute of Science and Technology, Indore** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **C and Cpp** were covered in the training.

April 10th 2020


Prof. Kannan M Moudgal
IIT Bombay

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Certificate of Participation

This is to certify that **ADITI CHOURASIA** participated in the **C and Cpp** training organized at **Indore Institute of Science and Technology, Indore** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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April 10th 2020


Prof. Kannan M Moudgal
IIT Bombay

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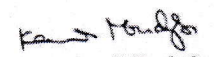
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Project at
IIT Bombay

Certificate of Participation

This is to certify that **ADARSH TIWARI** participated in the **QCAD** training organized at **Indore Institute of Science and Technology, Indore** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 22nd 2020


Prof. Kannan M Moudgalya
IIT Bombay

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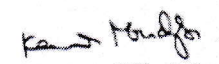
Spoken Tutorial
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Certificate of Participation

This is to certify that **DEEPAK CHOUDHARY** participated in the **QCAD** training organized at **Indore Institute of Science and Technology, Indore** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 22nd 2020


Prof. Kannan M Moudgalya
IIT Bombay

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The Spoken Tutorial Project

- Self-explanatory: uses simple language
- Audio-video: uses multisensory approach
- Small duration: has better retention
- Learner-centered: learn at your own pace
- Learning by doing: learn and practise simultaneously
- Empowerment: learn a new **FLOSS**
(Free/Libre and Open Source Software)

Target Audience

High school, College and Engineering students

Pre-requisites for Basic level tutorials:

- Basic knowledge of electronics
- Electronic components and connections
- Knowledge of C programming

Additional Pre-requisites for Intermediate level tutorial:

- Assembly language

Workshops

The Spoken Tutorial Project Team conducts workshops on Arduino and other FLOSS using spoken tutorials and gives certificates to those who pass an online test.

For more details, please visit
<https://spoken-tutorial.org>

Forum

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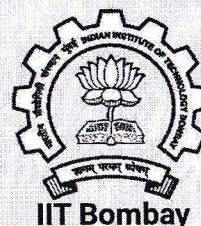
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Email: contact@spoken-tutorial.org

Website: <https://spoken-tutorial.org>

**Forum help
available
to all learners**

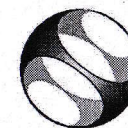
**Content available
in
22 Indian languages**



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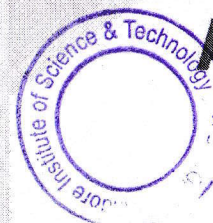


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What is Arduino?

- Arduino is an open-source electronics platform used for building electronics projects.
- Arduino consists of both a physical programmable circuit board or microcontroller and a software IDE (Integrated Development Environment) that runs on the computer.
- It is used to write and upload computer code to the physical board.
- It is intended for making interactive projects.
- Download Arduino IDE from www.arduino.cc

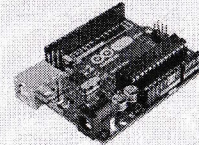
Features of Arduino IDE

- Works on Linux, Windows and Mac operating systems
- Has many in-built functions that make programming simple and easy
- Easy to write code and upload it to the physical board
- Arduino IDE can be used with any Arduino board
- Can be easily adapted for IoT applications
- Arduino can be turned into IoT product by adding ESP8266 wifi module

Benefits of using Arduino Kit

- Arduino boards are less expensive compared to other microcontrollers platform.
- The Arduino programming environment is easy-to-use for beginners.
- For advanced users, the language can be expanded through C++ libraries and AVR-GCC programming language can be added to Arduino programs.
- The modules are published under a Creative Commons license, so circuit designers can make their own version of the module.

- Arduino platform was designed for hobbyists, students and professionals to create IoT applications that play in the human interface world using sensors, motors, etc.
- Arduino can interact with buttons, LEDs, LCDs, motors, speakers, cameras, TV and smartphones, etc.
- Arduino can be connected to one or more sensors to capture the data.



Spoken Tutorials in Arduino series

Basic Level

- Overview of Arduino
- Electronic components and connections
- Introduction to Arduino
- Arduino components and IDE
- First Arduino Program
- Arduino with Tricolor LED and Push button
- Arduino with LCD
- Display counter using Arduino
- Seven segment display
- Pulse Width Modulation
- Analog to Digital Conversion
- Wireless Connectivity to Arduino

Intermediate Level

- Assembly programming through Arduino
- Digital logic design with Arduino
- AVR-GCC programming through Arduino
- Interfacing LCD through AVR-GCC programming
- Mixing Assembly and C programming

Popular uses of Arduino

- Home automation (controlling lights, fans and other appliances) via Android smartphone
- Traffic light control
- PC controlled robotic arm
- Temperature controller
- Anti-theft camera system
- Automated irrigation system
- Feeder for Aquarium
- Garage parking
- Line follower robot

Components required to practise

Arduino Spoken Tutorials

1. Arduino UNO or Compatible Board (1 no.)
2. USB Power Cable (1 no.)
3. Resistor 220 ohms (6 nos.)
4. Resistor 10K Ohms (2 nos.)
5. Resistor 1K Ohms (4 nos.)
6. Breadboard (1 no.)
7. Tricolor LED Common Cathode (1 no.)
8. Red LED Common Cathode (1 no.)
9. Seven segment display - Common cathode (1 no.)
10. Seven segment display - Common anode (1 no.)
11. Decoder – IC 7447 (1 no.)
12. LCD 16 X 2 soldered with pin header (1 no.)
13. Jumper wires Male to Male (20 nos.)
14. Jumper wires Male to Female (8 nos.)
15. Potentiometer 10K Ohms (1 no.)
16. ESP8266 es01 WiFi Black color Module (1 no.)
17. DHT11 Temp_Humidity Sensor Module (1 no.)
18. L293D H-Bridge Motor driver IC (1 no.)
19. Toy Motor (1 no.)
20. Buzzer (1 no.)
21. Push Button Switch (2 nos.)



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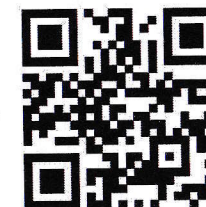
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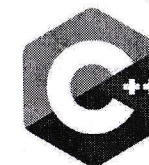
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THE
C
PROGRAMMING
LANGUAGE



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About C

C is a general-purpose programming language, initially developed by Dennis Ritchie between 1969 and 1973 at Bell Labs. Its design provides constructs that map efficiently to typical machine instructions. C is one of the most widely used programming language and there are very few computer architectures for which a C compiler does not exist.

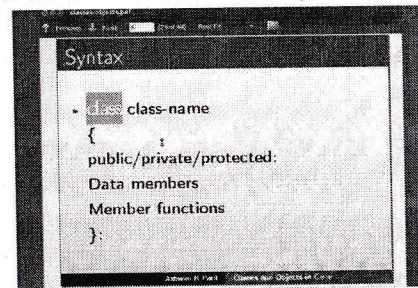
Features

- C has facilities for structured programming and allows lexical variable scope and recursion.
- All executable code is contained within subroutines, called "functions."
- C program source text is free-format, using the semicolon as a statement terminator and curly braces for grouping blocks of statements.
- Typing is static, but weakly enforced: all data has a type, but implicit conversions can be performed; for instance, characters can be used as integers.
- Complex functionality such as I/O, string manipulation, and mathematical functions are easy to implement with library routines.

About C++

- C++ is a statically typed, free-form, compiled, general-purpose programming language. It was developed by Bjarne Stroustrup starting in 1979, at Bell Labs.
- It adds object-oriented features such as classes, and other enhancements to the C programming language.

- The language began as enhancements to C, first adding classes, then virtual functions, operator overloading, multiple inheritances, templates, and exception handling among other features.
- C++ is also one of the most popular programming languages and can be implemented on most hardware and OS platforms.
- As an efficient compiler to native code, its application domains include:
 - Systems software
 - Application software
 - Device drivers
 - Embedded software
 - High-performance server and client applications
 - Entertainment software like video games



Features

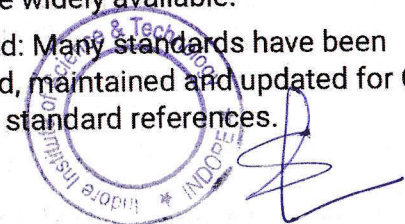
- **Classes:** By using classes, we can create user-defined data types. A class is the collection of a set of data and code. An object is the instance of a class.
- **Inheritance:** Allows one data type to acquire properties of other data types. This provides the idea of reusability, that means we can add new features to an existing class without

modifying it.

- **Data Abstraction and Encapsulation:** Encapsulation means hiding data from the data structures. Here, the data is accessible to only the functions that are allowed to access it. Abstraction means representing essential features without including background details.
- **Polymorphism:** means one interface can be used for multiple implementations, so that object can behave differently for each implementation.
- **Dynamic Binding:** At runtime, the code matching the object under the current reference will be called.

C and C++ Advantages

- **Powerful and flexible:** C/C++ are used for developing operating systems, compilers, parsers, interpreters, word processors, search engines and graphic programs.
- **Support:** C requires less runtime support
- **Portable programming language:** A variety of C/C++ programs written for one computer system can be compiled and run on another system, with little or no change.
- **Modular:** Written in routines called functions and classes (C++), programs can be used in other applications or programs.
- **Preferred by professional programmers:** A variety of C/C++ resources and helpful supports are widely available.
- **Standardised:** Many standards have been documented, maintained and updated for C and C++ as standard references.



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Simultaneously

Empowerment: learn a new FOSS

Target group

Undergraduates/Postgraduates

Research scholars

Teachers

The Spoken Tutorial Project Team conducts workshops on DWSIM and several FOSS using spoken tutorials and gives certificates to those who pass an online test.

For more details, please write to

contact@spoken-tutorial.org

<http://dwsim.fossee.in>

General Queries:

contact_dwsim@fossee.in

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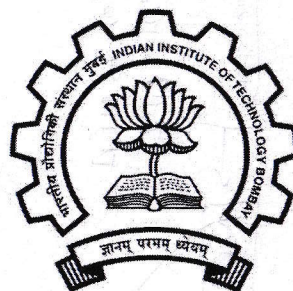
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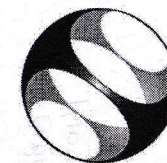
Website: <http://spoken-tutorial.org>



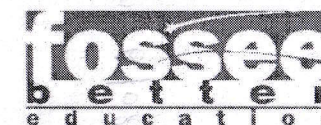
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Overview

DWSIM is an open-source CAPE-OPEN compliant chemical process simulator for Windows, Linux and Mac. Built on the top of the Microsoft .NET 4.0 and Mono Platforms and featuring a rich Graphical User Interface (GUI), DWSIM allows chemical engineering students and chemical engineers to better understand the behavior of their chemical systems by using rigorous thermodynamic and unit operations models with no cost at all.

Features

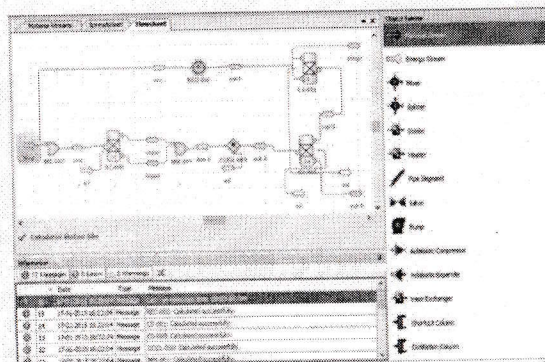
DWSIM has an easy-to-use graphical interface with many of the features present in commercial simulators:

- ▶ VLE, VLLE, SLE & Aqueous Electrolyte calculations using Equation of State, Activity Coefficient & Rigorous Distillation/ Absorption Column models
- ▶ Supports CAPE-OPEN Unit Operations and Thermo 1.0/1.1 Property Packages
- ▶ Thermodynamic Equilibrium and Property Calculators
- ▶ Supports ChemSep's Component Database, Column Model & Chemical Reactions/Reactors
- ▶ DWSIM supports the following Flash types: Pressure - Temperature (PT), Pressure - Enthalpy (PH), Pressure - Entropy (PS), Pressure - Vapor Fraction (PVF) and Temperature - Vapor Fraction (TVF)

Downloads

You can get started by visiting
<http://dwsim.inforside.com.br/wiki>

- ▶ It will give you a general idea of DWSIM features. All the links from Downloads to Tutorials can be found on the left hand side pane



The recycle and purge in synthesis of Methanol

Flowsheeting Project

The Flowsheeting Project aims to port the flowsheet created for any process development project, using the Free and Open Source Software DWSIM.

The objectives of this project are:

- ▶ To make it easy for students to create their process flowsheet directly in DWSIM
- ▶ To make available a large number of flowsheeting examples through crowdsourcing
- ▶ To demonstrate the power of DWSIM to the industry and to encourage them to adopt it
- ▶ To bring good students to the attention of industry for possible internship and employment
- ▶ To serve as the starting point for more advanced simulation, such as dynamic simulation, startup and shut down simulations using other open source simulators such as OpenModelica

Textbook Companion

The Textbook Companion (TBC) activity aims to port solved examples from standard textbooks using a Free and Open source software.

Create Textbook Companions for DWSIM. Earn attractive honorarium and certification.

The objectives of this project are:

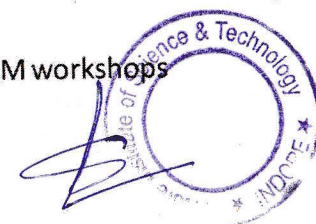
- ▶ To make individuals learn FOSS through a practical approach
- ▶ Provide a huge database of Textbook Companions as a learning resource
- ▶ To make it easy for users of such text-books to start using FOSS
- ▶ To improve the documentation available for FOSS

Lab Migration

Migrate labs that use proprietary software to DWSIM. Colleges can save a large amount of money that is spent on procuring licenses for commercial software by switching to FOSS.

The Lab Migration team helps in the following ways:

- ▶ Provide suggestions on the different ways FOSS can be implemented in the laboratory
- ▶ Coordinate the migration of the lab to a FOSS only laboratory
- ▶ Provide solutions to the lab's problem statements
- ▶ Conduct DWSIM workshops



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- *Empowerment - learn a new FOSS

Target Group

- *Students - High School and College
- *Working professional - Software users, developers and trainers
- *Research scholars
- *Community at large

Workshops

The Spoken Tutorial Project Team conducts workshops on PHP & MySQL and other FOSS using spoken tutorials and gives certificates to those who pass an online test.

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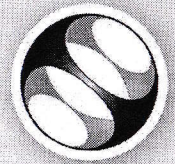
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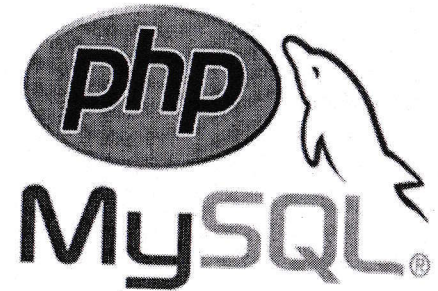
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Introduction

PHP or "PHP : Hypertext Preprocessor" is a widely-used Open Source general-purpose scripting language that is especially suited for Web development and can be embedded into HTML. Its syntax draws upon C, Java and PERL, and is easy to learn.

The main goal of the language is to allow web developers to write dynamically generated web pages quickly, but you can do much more with PHP.

Uses of PHP •

- To create large websites
 - For E-commerce like osCommerce, OpenCart
 - To create online discussion forums like phpBB
 - To create content management systems like Drupal, Joomla
 - To create e-learning management systems like Moodle
 - To develop web-based management tools like phpMyAdmin
- And many more..

Introduction

MySQL is a relational database management system (RDBMS) that runs as a server providing multi-user access to a number of databases. The SQL phrase stands for Structured Query Language. Applications which use MySQL data bases include: Joomla, Word Press, MyBB, phpBB, Drupal and other software built on the LAMP software stack.

A third party open source software "phpMyAdmin" is used as a web-based front end for managing MySQL databases easily and effeciently. It is widely installed by Web hosts worldwide. Also it is included in the convenient LAMP, MAMP and WAMP software bundle installers.

MySQL is used in many high-profile, largescale World Wide Web products, including Wiki-pedia, Google and facebook.

Features of PHP & MySQL

- Scalability and flexibility
 - High speed and high performance
 - Data protection
 - Comprehensive Application Development
 - Management tools
- And many more...

Benefits

- A large chunk of facebook, the world's leading social networking site, has a huge code based in PHP and it uses MySQL as database to store information of 1 billion+ users!
- PHP is the most preferred language for web development by free-lance developers across the globe.
- Many free and open source CMS like Drupal, Moodie, etc. are created using PHP & MySQL.
- PHP & MySQL has a large user and developoe community.

Links:

Original videos are available at
<http://phpacademy.org>

PHP Official Website -<http://www.php.net>

MYSQL Official Website -
<http://www.mysql.com>

W3Schools - PHP and MySQL Tutorials -
<http://www.w3schools.com/php/default.asp>
<http://www.w3schools.com/sql/default.asp> =

These tutorials will help you get started with PHP programming. In this series we will go through the basics of installing and getting PHP ready for development, the basic syntax and features of the language.