Visvesvaraya Technological University

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CIRCULAR

Subject - Remote Learning from IIT Bombay Spoken Tutorials (ST)

Visvesvaraya Technological University in association with Spoken Tutorial Project (STP), IIT Bombay is recommending to engage the students by referring them to learn Spoken Tutorials Courses during the shutdown for 15 days due to CORONA viral outbreak.

To Download the Tutorials: Click on below link

https://process.spoken-tutorial.org/index.php/Software-Training#Downloading_Spoken_Tutorials

- Click https://spoken-tutorial.org/create_cd_content/
- Select FOSS Category from the VTU Mapping List
- Level - (Select All)
- Language - English
Then Click on ZIP File to Download the Material

Note: **VTU Course Mapping – Department wise has been enclosed**

Principals of all affiliated and constituent colleges of VTU are requested to bring the contents of this circular to the faculty member and students

By Order
Sd/-
REGISTRAR

To,

The Principals of all Affiliated and Constituent Colleges of VTU, Belagavi

Copy to:

The Special Officer, CNC, VTU, Belagavi for uploading in VTU website.

REGISTRAR

P.S.Patil

Spoken Tutorial Program (ST) Courses Recommended for VTU affiliated Courses

S.no	Department- Course Code - Year	Subject Name	Spoken TutorialCourse without credit
1	**Bio InformaticsEngineering-** PCC-18BTL367 -III PCC-18BTL47-VI PCC-18BTL58- V Additional Software Skills PROJECT-18BTP83	Python Programming Bioinformatics Lab Genetic Engineering and Cell Culture Lab Project work Phase 2	Biopython(30hrs) Avogadro(30hrs) Cell Designer(3Ohrs) LaTeX(30hrs) Scilab(35hrs) Drupal (40hrs) PHPMySQL(30) C&C++(40hrs) Python(35 hrs)
2	**Biomedical Engineering** PCC-18BML67- VI 18BM73X-VII 18BM731 PCC-18BML76-VII Additional Software Skills PROJECT- 18BM783	Java Programming Lab Data Base Management System Lab Biomedical Digital Signal Processing Lab Project work Phase 2	Java(30hrs) PHP &MySQL(3Ohrs) Scilab(35hrs) LaTeX(30hrs) Drupal(40)hrs C&C++(40hrs) Python(35hrs)
3	**Chemical Engineering.** BECS7208-IV PCCH7306-VI Additional Software Skills PROJECT	Database Management System Computer Aided Design Lab.	PHP &MySQL(30hrs) Q-CAD(30hrs) LaTeX(30hrs) Scilab(35hrs) Drupal (40hrs) C &C++(40hrs) Python(35hrs)
4	**Civil Engineering.** PCC-18CVL37-III PCC-18CVL48-IV	Computer Aided Building Planning and Drawing	Q-CAD(30hrs) Open Foam(30hrs)

	PCC-18CVL76 Additional Software Skills PROJECT-18CVP83-VIII	Fluid Mechanics and Hydraulic Machine Lab Computer Aided Detailing of Structure	Blender(35hrs) LaTeX(30) Scilab(35) Drupal (40hrs) PHPMySQL.(30) C&C++(40hrs) Python(35hrs)
5	**COMPUTER SCIENCE &ENGINEERING (CSE) &Information Science and Engineering(ISE)** PCC18CSL48-IV PCC-18CS55-V PCC-18CS56-V PCC-18CSL58-V PCC-18CSL67-VI OEC-18CS65X_VI 18CS644 18CS653 OEC-18CS75X-VII 18CS74X -18CS752 Additional Software Skills PROJECT	Microcontroller &Embedded Lab Application development using Python Unix Programming DBMS Lab with mini Project Comgraphics Lab with mini Project Open Elective A Advance Java &J2EE Programming in Java Open Elective B Python Application Programming	Scilab(35hrs) Python(35 hrs) Linux(30 hrs) PHPMySQL (30hrs) QCAD(30hrs) Advance Java(30hrs) Java(30hrs) Python(30hrs) LaTeX(30hrs) Drupal(40)
6	**Electrical Engineering (EE)** PCC18EEL58- V PCC18EEL67-VI Professional Elective 1 18XX64X 18EE645 Additional Software Skills Project - 18EEP83-VIII	Power Electronics Lab. Digital Signal Processing Lab Object Oriented Programming using C++	Oscad-Esim(25hrs) Scilab(35hrs) C&C++(40hrs) LaTeX(30hrs) Scilab(35hrs) Drupal (40hrs)

			Project Work 2	PHPMySQL(30) Python(35hrs)
7	**{Electronics and Communication Engineering (ECE) and Electronics and InstrumentationEngineering (EIE)}** PCC18ECL57-V Professional elective 1-VI 18XX64X 18EC643 Additional Software Skills Project		Digital Signal Processing Lab. Project Object Oriented Programming Project work Phase 2	Scilab(35) C&C++(40hrs) LaTeX(30hrs) Drupal (40hrs) PHPMySQL(30hrs) Python(35hrs)
8	**MECHANICAL ENGINEERING** PCC-18ME36A-III PCC-18MEL57-V Additional Software Skills PROJECT		Computer aided Machine Drawing FluidMechanics Lab Project Phase 2	QCAD(30hrs) Openfoam(30hrs) LaTeX(30) Scilab(35) Drupal (40hrs) PHPMySQL(30) C&C++(40hrs) Python(35hrs)
9	**Mechatronics Engineering.** PCC-18MTL47 Professional Elective – 2-VII 18MT73X 18MT734 Additional Software Skills PROJECT		FM &Pneumatic OOPs using C++ Project Phase 2	Openfoam(30hrs) C&C++(40hrs) LaTeX(30hrs) Scilab(35hrs) Drupal (40hrs) PHPMySQL(30hrs) Python(35hrs)
10	**Mining Engineering** Additional Software Skills PROJECT- 18MNP83		Project Work Phase 2	LaTeX(30hrs) Scilab(35hrs) Drupal (40hrs) PHPMySQL(30hrs) C&C++(40hrs) Python(35hrs)
11	**Textile Engineering** PCC-18TXL38-III		Chemical Processing of	DWSIM

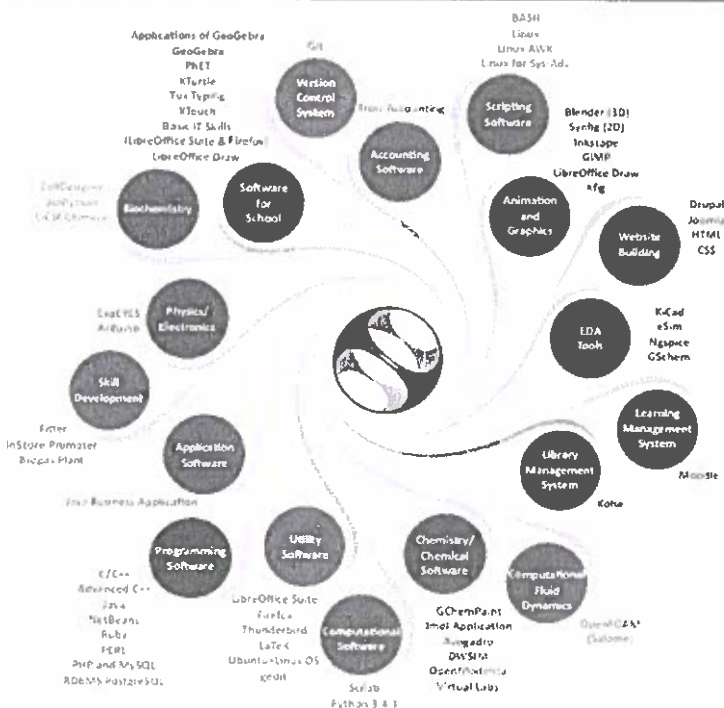|			
	Additional Software Skills Project	Textile Lab-II Project phase 2	LaTeX(30hrs) Scilab(35hrs) Drupal (40hrs) PHPMySQL(30hrs) C&C++(40hrs) Python(35hrs)
12	**Industrial and Production Engineering** PCC-18IP35 PCC-18IP46 Additional Software Skills for Credits PROJECT-18IPP83	Fluid Mechanics CAD/CAM	Openfoam(30hrs) Q-CAD(30hrs) LaTeX(30hrs) Scilab(35hrs) Drupal (40hrs) PHPMySQL(30hrs) C&C++(40hrs) Python(35hrs)
13	**Automobile Engineering** PCC-18AUL58-V PEC-18AU73X 18AU731 Additional Software Skills for Credits PROJECT	Fluid Mechanics and Fuel Testing Lab CAD/CAM	Openfoam(30hrs) Q-CAD(30hrs) LaTeX(30hrs) Scilab(35hrs) Drupal (40hrs) PHPMySQL(30hrs) C&C++(40hrs)
14	**AERONAUTICAL/AEROSPACEENGINEERING** PCC-18AEL48-IV PCC18AEL58- V Additional Software Skills for credits PROJECT	Computer Aided Aircraft Design Lab Energy Conversion and Fluid Mechanics Lab	QCAD(30hrs) OpenFoam(30hrs) LaTeX(30hrs) Scilab(35hrs)) Drupal (40hrs) PHPMySQL(30hrs) C&C++(40hrs) Python(35hrs)

Note:
- Scilab useful for all branches as advanced computational package (Open Source uivalent to Matlab)
- LaTeX - essential tool for Engg. and Technical writing (for Projects, Papers)
- Drupal - Web development
- Python- Scripting Language
- PHPMySQL, PostGreSQL - for Database Management systems and Web

evelopment.
- C&C++- Programming Launguage

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