



Visvesvaraya Technological University

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ERP

ACADEMIC:

- 1. Affiliation software:** VTU is using online affiliation software developed and maintained by Frappe technologies Pvt. Ltd. This software is named A3PS (Affiliation Application and Assessment Process Software). This is end to end software. The 200+ affiliated colleges under VTU apply for affiliation through this software. Exhaustive data related to infrastructure, labs, faculty, research activities, students and staff of colleges are collected using this software. The applications are scrutinized and then based on the applications Local Inquiry Committees (LIC) is formed in this software. The related letters are auto generated using this. The LIC report entry is also done online. The recommendations to Government of Karnataka and AICTE, New Delhi are generated based on the LIC report. The notifications and compliance letters are also auto generated using this software. There are 900+ research centers under VTU and their recognition process from application till notification is also done using this software. The website is as follows <https://affiliation.vtu.ac.in/>.
- 2. e-admin:** This is an in-house software developed by the CNC section of VTU. This is used for readmission of students (issue of readmission letter), migration (printing of migration certificate), dcb(demand collection book) maintenance and dispatch letter numbering system. For inward of letters software developed and maintained by NIC, Government of Karnataka is being used.

Ph.D (Academic):

- 1. Researcher:** This is software developed and maintained by Shruti Soft Pvt. Ltd. This software is used for inviting applications for research programs offered by the University. The university awards Ph.D under 8 faculties. It is also used for inviting applications from eligible guides for guiding Ph.D students. The students aspiring to do research apply in this software through VTU recognized guides. Doctoral committee formation letters of all the researchers are uploaded in this software. Course work application is also done using this. Office orders and other related letters from pre-registration till completion of course work is done through this software. The website is as follows <https://researcher.vtu.ac.in/>.

EXAM SECTION:

1. Software Modules for Examinations

Visvesvaraya Technological University has developed a bouquet of software for use in its Examination System in house. All the developed software are hosted in the state of the art Visvesvaraya data centre at its Jnana sangama campus in Belagavi. The software serves all the required tasks from student registration for university seat number (USN) generation to publication of results. The software modules are developed at the CNC/PMC/ITISMU. The modules were developed starting from December 2016-January 2017 exams and have matured and improved a lot over the years. The software modules are developed using MySQL as back end. PHP, ASP.net, Java and Python are employed for development of various modules. The software modules are web based and is hosted on Centos/Ubuntu/and Windows server platform.

The software modules, developed in-house at VTU, can be categorized into pre-exam, during exam, post-exam and general modules. The different modules developed for VTU exams include,

PRE-EXAM MODULES

The pre-exam modules include information entry by colleges about students and faculty. Modules for, student registration for USN (University seat Number), CIE (Continuous Internal Marks) entry, exam application entry. Parts of Laboratory Exam Management System, Question paper management system and the like.

DURING EXAM MODULES

During Exam modules include web based software modules for information/ data collection during the conduct of exams and also delivery of question papers to examination centers all across the state. The modules collect, Form A data, CSDCS data from colleges/ regional offices and other information during the conduct of exams. Web based modules for secure delivery of question papers through ipsec VPN and all the tasks related to conduct of lab exams including batch creation, examiner appointment and marks entry exist.

POST EXAM MODULES

Post exam modules include modules for digital valuation of answer scripts in valuation centres distributed across the states. The digital valuation is carried out on a distributed architecture. The software is devised for digital valuation of all the courses of VTU including, BE/ B.Arch/ ME/M.Tech/PhD. All modules required for the digital valuation functionality, including, VPN connection to valuation centers, scanning centers, scanning of answer scripts, front sheet information extraction, Onscreen marking, computation based on type of question paper, revaluation and marks extraction for result processing. The post exam modules also include grading and GPA computation system and document printing system that provides prints of grade cards, PDC, transcript, degree certificates etc.

Ph.D (Exam):

1. **Examinater:** This is software developed and maintained by Shrusti Soft Pvt. Ltd. It is end to end software which is used by the students, guide and VTU after the registration of Ph.D candidates. It is used for uploading of details regarding open seminars, research progress reports and thesis upload. The allotment of Indian and foreign examiners are also done here. Guide can track the progress of the Ph.D candidate.

STORES AND PURCHASES/ENGINEERING SECTION:

1. **E-proc:** It is software developed and maintained by NIC, Government of Karnataka. All e-tenders regarding procurement, works and services are published on e-proc portal. The supplier uploads all the details regarding procurement online. Pre-bid, technical and financial bidding for all kinds of procurement is done through this software.

DPAR:


1. **HRMS** software of the GoK is being adopted towards maintenance of attendance and preparation of salary bills. Data entry into this software is being done and the salary from the month of September 2020 will be done through it. Attendance is maintained through biometric system.
2. **e-admin** is an in-house software developed by the CNC section of VTU which is being used for salary slip generation. These Salary slips can be downloaded by the employees directly from salary.vtu.ac.in.

LIBRARY:

1. **KOHA Integrated Library Management Software:** It is open source software being used by the University for Library Management. The management of stock of books, books issue, book returns, fine calculation, book search (Online Public Access Catalog) are done using this. Certain reports related to the above can also be generated using this. Bar code generation for books is also done using this software. The website of University library is as follows <http://library.vtu.ac.in/>.

FINANCE:

1. **Busy-soft:** It is proprietary software used for accounting. Receipts and payments, Income and expenditure, Balance sheet, ledger printouts, bank reconciliation, cash book, day book of the University are maintained using this.


10.7.2020
Registrar
VTU, Belagavi
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