ਮਹਾਰਾਜਾ ਰਣਜੀਤ ਸਿੰਘ ਪੰਜਾਬ ਟੈਕਨੀਕਲ ਯੂਨੀਵਰਸਿਟੀ, ਬਠਿੰਡਾ

MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY

(A State Univ. Estd. by Govt. of Punjab vide Punjab Act No. 5 of 2015 and Approved u/s 2(f) & 12 (B) of UGC; Member AIU)

Bathinda-151001 (Punjab), India

REPORT

E-GOVERNANCE: IT INTEGRATION

MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY

Bathinda-151001 (Punjab), India

E-GOVERNANCE: IT INTEGRATION

2021

INTERNAL QUALITY ASSURANCE CELL

MAHARAJA RANJIT SINGH PUNJAB TECHNICAL UNIVERSITY
BATHINDA 151001
E-GOVERNANCE: IT INTEGRATION

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Version 1
Year 2021

INTERNAL QUALITY ASSURANCE CELL

E-GOVERNANCE: IT INTEGRATION

Year Wise Report of E-Module Developed/Improved

Sr. No.	E-Module Developed/Improved	Year	Features Released.
01	Examination	2015-2016	1. New portal Started add examination process 2. HOD can fill the student (Reg/Reappear) examination system 3. Assigned teachers can fill student internal systems. 4. Notification module.
02	Accounts	2015-2016	1. The development of the Software was started this year. Initially Various Accounts heads, ledgers and books were created.
03	College Development Council	2015-2016	1. Register through the registration tab on the home page with correct details. After successful submission, an email with login details will be sent to the email Id submitted during registration. 2. The admin can see the details of the applications filed by the institutes, date when filed, link to view the fee challan, Fee deposited, Balance amount if any, mode of Fee Submission. Then there should be provision of obtaining print outs of the list of institutes for each category of application. The list of institutes who have failed to apply should also be provided. 3. The admin can see the detail of type of application i.e., New college, New course, increase in seats, and decrease in seats, closure of course, closure of institute, Extension only.
04	Admissions	2015-2016	1. Students can register themself for admission via online mode.
05	Examination	2016-2017	1. Whole college wise challan generated. 2. Exam paper transfer online as per college and paper wise. 3. Online examination time student attendance. 4. Result system in student account so student can check any previous own result in own account
06	Accounts	2016-2017	1. Software was integrated with Examination and Started Collection of various fees from Colleges through Challan and Online Mode

07	College Development Council	2016-2017	1. There were some issues which were raised by the concerned department that CDC is getting an ample amount of email on their support email id. The application was modified in order to resolve these issues.
08	Admissions	2016-2017	1. Online counseling fee payment.
09	Examination	2017-2018	1. Create new reports in admin section like: 1.1 Active session filled form report. 1.2 New use for : exam session billing system 1.3 Whole reporting system was added in different admin ids.
10	Accounts	2017-2018	1. Module for Budget Management and Salary Management started in the Software. Pay branch can make pay online and employees can download their salary slips
11	College Development Council	2017-2018	2. The second Challan fee automation work was completed from my end. In this work software was modified in a fashion fee automated calculation and payment of fee was made online. 3. A separate module was made on the requirement of CDC that last year Government had decreased the intake of many colleges where they were asked to go ahead with Government decrease in seats or apply for increase in seats for current year.
12	Admissions	2017-2018	1. College login & Candidate login.
13	Examination	2018-2019	1. Students can fill their regular and reappear form online while login into the examination portal. 2. New DMC and Degree format. 3. Bulk scheme upload module. 4. Online payment System with ICICI. 5. Online services for students. 6. Automation Work for UMC Cases for Examination. The issue was that when a student on whom the UMC case was made, his/her semester upgrade was suspended for some specific date. Now, Once the suspension date was completed then College Head Usually complained that they were unable to see the Suspended student after completing their suspension effective date. So, the Examination Team had to Login to the Examination Software and manually

			perform the operation. However, after performing this automation implementation work Once a student has completed their suspension period after effective suspension date they will be automatically able to see in the HOD portal when they Log In with their login details.
			7. Examination Code is written for M.Pharma DMC Process for Branches Pharmaceutics, Pharmacognosy, Pharmacology, Pharmaceutical Chemistry, Pharmaceutical Analysis and Quality Assurance. In this Process New Exam Marks Filling, Result Notification Data and DMC Format Was Created.
			8. Automation Work of Shaheed Bhagat Singh State Technical Campus (SBS) Degree work was completed. The Examination Department Support team when try use the Generate DMC for this college then they usually face issue due to Scheme Passing marks conflict between MRSPTU and SBSB and due to it DMC were not getting generated .Apart from this, Branch Change Issue in SBS and which lead to unable to generate DMC. All this work was manually performed from the back end by the IT Department. After take over this work was automated.
14	Accounts	2018-2019	1. In order to purchase equipment and billing process is taken care of by online sanction filling mode.
15	College Development Council	2018-2019	1. Captcha was installed in the College Development Website in order to make the website more secure so that the website can resist toward Hacking.
16	Admissions	2018-2019	1. Students upload documents online. 2. Enhancement to admissions.
17	Examination	2019-2020	1. Online documents uploaded by university to student accounts.. 2. Mobile Applications for students. 3. Online Examination system whole process new grade system (Regular/Reappear) 4. Scheme uploads the activity which takes an ample amount of time in every semester. The activity which was performed manually by the IT

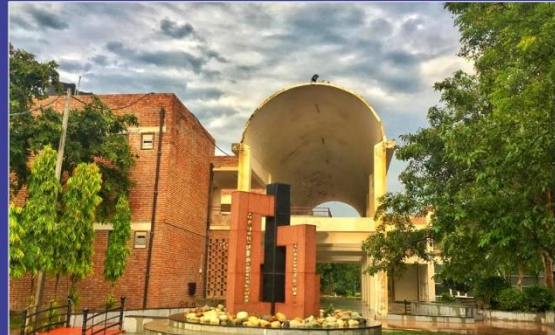|			Department for that work was automated and it would take a few minutes to upload the whole scheme. As a result of it ample amount of time was saved for examinations and the IT Department.
			5. Students who got upgraded in every semester that task was performed manually so that an upgrade stored procedure was created which took some time in order to upgrade all students in one go.
			6. Examination DigiLocker Work from Examination Software was completed. Apart from this Degree PDF Generation Code and Encryption of SHA6 was also Implemented in Examination as well as DigiLocker Server Code.
18	Accounts	2019-2020	1. A few Modifications/upgradations were in the module and a New Module of BuyBack of items while purchasing new was added 2. Online Sanction filling module was developed for PITs 3. An Online Pension management and Honorarium module was developed. 4. Module was upgraded and new features were developed for Online Collection of Examination Fee directly from Students
19	College Development Council	2019-2020	1. Automation work of Index of application form one print of affiliated colleges depending on cases of Progressive closure, Abrupt Closure, Increase of Intake, Decrease of Intake and etc cases.
20	Admissions	2019-2020	1. Pre-registration & provisional admission start.
21	Examination	2020-2021	1. Examination software needs to be modified for push degree requests ,dig locker services code needs to be created at server end, configuring dig locker services which is the hardest part as it includes ample amount of testing , server and database configuration and many more tasks. Apart from this, the code at the examination side was done in a fully automated way. After completion of the work in April 2021 Maharaja Ranjit Singh Punjab Technical University became the first technical university whose degree was available on digilocker.
22	Accounts	2020-2021	1. Module for automatic Opening voucher generation was developed

			2. Module for checking the Pending fee was developed.
			3. Module was upgraded for collection of various special services fee of various online requests
			4. Various reports have been prepared in Module as required by CA which were required for filing ITR.
			5. Online Voucher generation of Various collected fee and directly booking the entry in the accounts books
			6. All New Ledgers were created and the system was modified to work with those ledgers.
			7. All Sanction forms were updated.
			8. Module was prepared to show all fee status to the student along with receipt generation of paid fee.
			9. A few upgrades were done as required by Accounts Staff from time to time.
23	College Development Council	2020-2021	1. Registration both the new existing institutions need to register himself for filling the affiliation application. Now, the registration step should be for the new institutions only and it shall be abolished for the existing institutions.
			2. Online payment was done after the compilation of part one. Now, it shall be shifted at the end of the application and submit the application only after payment has been made.
			3. Updation and modification in the theme of the CDC web portal.
24	Admissions	2020-2021	1. Students upload documents online through Digilocker.
25	IQAC	2020-2021	1. Teacher's staff appraisal and research information details are submitted by this portal through online mode.

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