	Process	Human	Non-comb Hardware	Computing Hardware	Software	Database	Network & Communication
	View grade and cgpa	**Students:** 1.Login to IRAS. 2. Search semester wise result for intended semester. 3. See grades for specific semesters. **Registrar's Office:** 1. Access IRAS. 2. View students' grades if and when its necessary.	**Pen and Paper :** 1. Tabulated transcripts may be printed onto paper. Hardcopy is used as the primary source of truth during applications and other paperwork.	**Computer/ Phone:** 1. Used for accessing IRAS.	**IRAS:** 1. **Stores** letter grades of each completed course 2. Provides the online user **interface** for viewing grades .	**Registrar's Office Storage:** 1. Student information is kept in admin in hardcopies for future reference. **IRAS Database Server:** A Database Management Service is used to store, maintain, edit and receive student grades information in IRAS.	**Internet/ Email** 1. The Internet is used to communicate with IRAS to store final grades of students. 2. Softcopies may be mailed.
	Result Submission	**Faculty:** 1.Firstly , submit the marks to the department. 2.Login to the IRAS .	**Pen and Paper :** To note-down the marks . **Calculator :**		**Gmail:** Used to send mail to the Department.		

			Marks are calculated with a calculator.				
	Program Approval	**Higher Management** 1)Log in to system. 2) Requests for Program approval to UGC. 3)Get the feedback from UGC. 4)Get request from higher management for program approval. 5)Give feedback to higher management.	**Pen-Paper:** 1)Sends hardcopy of program approval and report.	**Laptop, PC, Printer, Smartphone, Scanner:** 1) Uses computers to make softcopies. 2)Printout the softcopies .	**Application Software:** 1)MS Office	**MS SQL server or ORACLE:** 1)The database used to store data for this SPMS.	**Internet :** 1)All related data are searched through internet. 2) All data stored in server via intranet.

(Note: the "3." appears in the Actor/Role column of the first partial row, with "Marks are calculated with a calculator." in the Pen-Paper column.)

	Report generating and heading	Student: 1)Log in to system. 2)See student data report. Admin: 1)Log in to system. 2)Prepare OBE report on request of Higher Management. 3)Send report to Higher Management. Higher Management 1)Log in to system. 2)Ask for OBE report to admin. 3)Gets report from admin.	Paper: Print the reports to store hardcopy of the report	Laptop, PC, Application Printer, Network device, Smartphone, Scanner. Update and validate reports	Application Software: 1)MS Office, ERPs. 2)Reports can be created using Excel sheet, Google Sheet .	MS SQL server or ORACLE: The database used to store data for this SPMS.	Internet: used to store data for this SPMS. 1)All related data are searched through internet. 2)All data stored in server via intranet