FUNCTION POINT ANALYSIS

INPUTS:

- Screen 1
 - HOD of each department selects the courses and course faculty(can be multiple in number).
 - DOAA makes changes and gives suggestions.
 - HOD reassigns course faculties and teachers.

Course list is submitted.

Screen 2

Students enroll in courses.

Screen 1

 Courses with less than 10 students are discarded and exceptions are only recommended by DOAA.

Final list is locked.

• Screen 3

Students register in final courses.

Lock and submit courses.

• Screen 4

 Students enter their credentials to make fee payment by debit card or net banking (any bank).

• Screen 5

 Marks and grades are entered by course faculty of each course for enrolled students, update and lock the grades.

OUTPUT:

• Screen 1

Message -"Course list is submitted" is displayed.

• Screen 2

Message -"You are enrolled in <n> courses" is displayed. simple

Screen 1

Message -"Final Course list is submitted" is displayed.

Screen 3

 Message-"You have registered in <n> courses is displayed" and they are redirected to fee payment portal.

• Screen 4

 Message - "Fee payment is successful." or "Fee payment is not successful, try again." is displayed. simple Screen 5 Message -"You have updated marks successfully." and "You have submitted marks for <course> <year> successfully." is displayed. Simple Screen B1 Timetable will be displayed. complex Screen B2 View list of students enrolled in his/her course. average Screen B3 Updated Mark list of students in his/her course. average

Screen D1

 Final course list for enrollment. average

Screen D2

 List of students enrolled in all courses of a department. average

Screen S8

They can view their result for registered courses in summer term and they can also view their final updated result. complex

Screen S7

Previous records of courses which they have taken in summer term will be displayed and previous results. average

Screen S6

 Registration slip will be generated. average

Screen S5

 fee receipt will be generated. complex

Screen S4

 Timetable will be displayed. average

Screen S1

 Student details - Name, Roll number, etc. are displayed. complex

Screen S3

 Students can view their enrolled courses average

Screen S2

 Course list for enrollment is displayed to students. average

DATA STORES:

 Academic student details complex List of courses available for summer term average • Details of fee payment average Time table simple

PROCESSING INQUIRIES:

All these queries are there on screen as icons whenever a student clicks on one of them, then corresponding query will be solved and result will be shown on another screen.

- SCREEN S1:
 - Student clicks on tab "Student details" to view his/her academic details.
 average
- SCREEN S2:
 - Student clicks on tab " available courses" to view the list of courses he/ she can enroll in.
- SCREEN S3.
 - Student clicks on tab -"Registered Courses" to register in final courses. average
- SCREEN S4
 - Student clicks on tab -"View Timetable" to view time table.
- SCREEN S5
 - Student clicks on tab -"Fee receipt" to generate fee receipts.
- SCREEN S6
 - Student clicks on tab -"Course registration receipt" to generate course registration receipt.
- SCREEN S7
 - Student clicks on tab-"Student History" to view previous they can view their previous records of courses which they have taken in summer term.
- SCREEN S8
 - Student clicks on tab-"Results" to view results.
- SCREEN B1
 - Faculty clicks on tab- "Timetable" to view details.
- SCREEN B2
 - Faculty clicks on tab- "enrolled students" to view list of students enrolled in his/her course.
- SCREEN B3
 - Faculty clicks on tab-Updated Mark list.
- SCREEN D1
 - HOD clicks on tab-"Course list".
- SCREEN D2
 - HOD clicks on tab-List of students enrolled in all courses of a department.
 average

PROCESSING UPDATES:Screen E1:

- Final Course list Updation-As DOAA finalises the list it has been updated into database.
- Screen E2:
 - Student Enrollment-When students enroll then their details and courses in which they have enrolled are updated into database.
- Screen E3:
 - Fee details-As students pay their fee then they are eligible for summer course and completely enrolled for course.
- Screen E4:
 - o Timetable updation-When timetable is made then it is also updated .

complex

- Screen E5:
 - o Result Updation Grades will be updated and new grade sheet will be generated.

average

EXTERNAL INTERFACES:

•	Grade sheet generation module	average
•	Time table generation module	simple
•	Student data maintenance module	complex
•	Faculty data maintenance module	complex
•	Marks and grade processing	average

TABLE FOR FUNCTION POINT ANALYSIS:

	SIMPLE	AVERAGE	COMPLEX
INPUTS	4	1	1
OUTPUTS	6	9	4
DATASTORES	1	2	2
PROCESSING INQUIRIES	4	5	4

PROCESSING UPDATES	0	3	2
EXTERNAL INTERFACES	1	2	2

FUNCTION POINT ANALYSIS WEIGHTS:

	SIMPLE	AVERAGE	COMPLEX
INPUTS	2	4	6
OUTPUTS	3	5	7
DATA STORES	5	10	15
PROCESSING INQUIRIES	2	4	8
PROCESSING UPDATES	4	8	12
EXTERNAL INTERFACES	4	6	8

INPUTS:

• 4 simple x 2 = 8

• 1 average x 4 = 4

• 1 complex x 6 = 6

OUTPUTS:

• 6 simple x 3 = 18

• 9 average x 5 = 45

• 4 complex x 7 = 28

DATA STORES:

• 1 simple x 5 = 5

• 2 average x 10 = 20

• 2 complex x 15 = 30

PROCESSING INQUIRIES:

• 4 simple x 2 = 8

• 5 average x 4 = 20

• 4 complex x 8 =32

PROCESSING UPDATES:

- 0 simple x 4 = 0
- 3 average x 8 =24
- 2 complex x 12 =24

EXTERNAL INTERFACES:

- 1 simple x 4 = 4
- 2 average x 6 = 12
- 2 complex x 8 = 16

UNADJUSTED FUNCTION POINTS = 304

S. No.	General System Characteristic	Brief Description	Score
1	Data communications	How many communication facilities are there to aid in the transfer or exchange of information with the application or system?	4
2	Distributed data processing	Performance Was response time or throughput required by the user?	4
3	Performance	Was response time or throughput required by the user?	4
4	Heavily used configuration	How heavily used is the current hardware platform where the application will be executed?	3
5	Transaction rate	How frequently are transactions executed daily, weekly, monthly, etc.?	4
6	On-Line data entry	What percentage of the information is entered On-Line?	5

7	End-user efficiency	Was the application designed for end-user efficiency?	5
8	On-Line update	How many ILF's are updated by On-Line transaction?	5
9	Complex processing	Does the application have extensive logical or mathematical processing?	2
10	Reusability	Was the application developed to meet one or many user's needs?	5
11	Installation ease	How difficult is conversion and installation?	4
12	Operational ease	How effective and/or automated are start-up, back-up, and recovery procedures?	3
13	Multiple sites	Was the application specifically designed, developed, and supported to be installed at multiple sites for multiple organizations?	1
14	Facilitate change	Was the application specifically designed, developed, and supported to facilitate change?	3
	TOTAL		52

ADJUSTMENT INFLUENCE =52

355.68 ADJ-FP divided by 10 = ~36 person-months