



## Student Information System



**Project Name:** University Of Bahrain

## Student self-Services



## Table of Content

<b>1</b>	<b>Introduction</b> .....	<b>3</b>
1.1	Purpose.....	3
1.2	The general context of the document.....	3
1.3	Who should Read this document.....	3
<b>2</b>	<b>Functional Requirements</b> .....	<b>4</b>
2.1	System login.....	4
2.2	Forgot password.....	6
2.3	Course registration (Register/Add/drop).....	7
2.4	Withdrawal from course.....	12
2.5	Reports.....	14
2.5.1	Print registration form.....	14
2.5.2	Course Schedule.....	16
2.5.3	Course Catalog.....	18
2.5.4	Offering course list.....	19

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## 1 Introduction

### 1.1 Purpose

The main purpose from this document is to document the requirements supplied by UOB, this document is provided to the project manager and the technical team functioning on the project as a common basis to continue operating on.

### 1.2 The general context of the document

This document aims to review the functionality of student self-services of University of Bahrain in details which reflects a comprehensive and cohesive understanding of all requirements to be implemented and documented in the detailed requirements document. This document includes functional and non-functional requirements of the proposed solution. This document also includes some illustrative samples that describe these requirements in a way that is easy to understand.

### 1.3 Who should Read this document

S	Member	Purpose
1	Client	To ensure the requirements cover his business needs
2	Quality Team	To ensure the document matches the CMM quality standards
3	Design Team	To translate business requirements into technical solution in terms of Database, Interfaces, and architecture
4	Project Manager	To ensure the requirements are in the project scope
5	Testing Team	To generate test case

## 2 Functional Requirements

### 2.1 System login

<b>Function Name</b>	System Login
<b>Function link</b>	/Default.aspx
<b>Function Description</b>	Through the use of this function, the user can login to the system
<b>Steps</b>	<ol style="list-style-type: none"> <li>1. Go to the system link</li> <li>2. Login to the system</li> </ol>
<b>Data to be added</b>	Verification field (Captcha Check)
<b>Data to be deleted</b>	Applicant (choose user type)
<b>Data to be modified</b>	
<b>Current business rules</b>	<ol style="list-style-type: none"> <li>1. The system allows displaying the login screen in the following languages (Arabic - English)</li> <li>2. The system doesn't allow user without account to login</li> <li>3. The system must allow the user to choose between the type of login through two different links (Normal User – Admission User)</li> <li>4. An inactive user must not be allowed to login to the system and an alert message is displayed to the user.</li> <li>5. A user connected to a specific device or from a specific place (IP address - Mac address) must not be allowed to login from any other device or place and an alert message should be displayed to the user.</li> <li>6. A user who does not have a defined Account Type must not be allowed to login.</li> <li>7. All mandatory fields must be entered (username - password) and it is indicated with a red "*" symbol displayed next to the fields in the case the user logged in without entering the mandatory data.</li> <li>8. The system must display the password field in an encrypted structure when typing the password.</li> <li>9. Based on the feature of defining the number of login attempts, the system calculates the number of incorrect login times within an hour with a message displaying the number of attempts, and in case the number of times exceeds the defined number of trials, the system automatically converts the user status to inactive - and displays a message to the user (You have exceeded max number of trials, please contact the IT department).</li> <li>10. The system should show the "Forgot Password" link to be displayed under the login fields.</li> <li>11. System should allow option to remember username &amp; password ( حفظ " كلمة المرور / Remember Me"?)</li> <li>12. System should validate entered username in the system and password in active directory and if wrong system displays message (Entered data incorrect / البيانات المدخلة غير صحيحة)</li> </ol>

	<p>13. After completing the login and verifying the user's data, the system should provide a list (Radio Button list) to be displayed with all the active account types available for the user, to choose from.</p> <p>14. System should after verifying user data, (Log History) to be recorded on the system and contain (User - User Type - ID - Current Year - Current Semester).</p> <p>15. System should display the data of colleges or universities based on what is defined for this type of user.</p> <p>16. System should display the screens and functions defined for this user.</p>
<p><b>Modification needed in business rules</b></p>	<ol style="list-style-type: none"> <li>1. The system should allow using the Captcha Check feature to display random symbols with each new reload of the screen (Refresh) to confirm the user's entry to the system. With the possibility of adding a feature (Refresh) the (Captcha Symbols) feature.</li> <li>2. The system should allow to display the server's name at the bottom of the screen, for example "© Copyright 2013 Node_04. Informatique. All Rights Reserved"</li> <li>3. The system should display an alert message to the user in case the "caps lock" button is activated when entering the password.</li> <li>4. Based on the function of specifying which patch to access the system in a specific time on the academic calendar [peak time of add/drop], system must check if the student who is logging is from the group which is permitted to login at the current interval</li> <li>5. The system should allow display a link for Admission "<a href="https://sis.uob.edu.bh/UOB_SIS_prod/UI/Admission/ADM_UOB_AdmissionRequests.aspx">https://sis.uob.edu.bh/UOB_SIS_prod/UI/Admission/ADM_UOB_AdmissionRequests.aspx</a>" and when clicked, the system redirects the user to a screen containing a set of links that are activated Based on the admission agenda, the user chooses from them.</li> <li>6. Based on the feature of activating OTP upon entry or not, the system verifies the user's login by sending a text message to the mobile via the OTP service. This feature is activated for users who do not have a main phone number, where the system displays a field with the phone number that the user enter it and confirm the OTP to save the phone number in the system and complete the entry.</li> <li>7. Based on the function of defining the main screen for each account type of user, the user's home screen (Home Page) is displayed. Through this function, the main screen of a specific user type can be changed to any other screen in the system that is displayed when logging in directly. If no home screen is defined, the default home screen displayed.</li> </ol>
<p><b>Integration with other functions</b></p>	<p>Academic calendar</p>

## 2.2 Forgot password

<b>Function Name</b>	Forgot password
<b>Function link</b>	/Default.aspx
<b>Function Description</b>	Through the use of this function, the user can change the password of his/her account by submitting the username of a valid account
<b>Steps</b>	<ol style="list-style-type: none"> <li>1. Go to the system link</li> <li>2. Press the “Forgot password” button</li> </ol>
<b>Data to be added</b>	Forgot password (Hyperlink text)
<b>Data to be deleted</b>	
<b>Data to be modified</b>	
<b>Current business rules</b>	
<b>Modification needed in business rules</b>	<ol style="list-style-type: none"> <li>1. User should be able to use the “Forgot password” function through the login screen</li> <li>2. In case the user pressed the “Forgot password” hyperlink, system must ask the user to enter the username and email address</li> <li>3. After the user enters username and email address, system should validate if they are valid or not             <ol style="list-style-type: none"> <li>a. In case the username and email address are valid, system should allow the user to send the “Change password email” to the associated email</li> <li>b. In case the username and email address are invalid, system must display a message to the user clarifying that “Criteria is not valid” and prevent the user from sending the “change password email” to the user</li> </ol> </li> <li>4. After pressing the “Change password email” screen should be redirected to the login screen</li> <li>5. User cannot access the system with the new password until it is changed and saved through the sent email</li> </ol>
<b>Integration with other functions</b>	Security Admin

## 2.3 Course registration (Register/Add/drop)

<b>Function Name</b>	Register/Add course
<b>Function link</b>	ui/studentview/regonline.aspx
<b>Function Description</b>	Through the use of this function, the user can register/add/drop courses
<b>Steps</b>	<ol style="list-style-type: none"> <li>1. Log in the system</li> <li>2. Access “student” module</li> <li>3. Choose the menu: academic affairs &gt;&gt; Course registration</li> </ol>
<b>Data to be added</b>	No clash (Checkbox) Add seat (button)
<b>Data to be deleted</b>	
<b>Data to be modified</b>	
<b>Current business rules</b>	<ol style="list-style-type: none"> <li>1. <b>System should display a student academic and basic information such as:</b> <ul style="list-style-type: none"> <li>- Name of the student</li> <li>- Student code</li> <li>- Faculty of the student</li> <li>- Degree of the student</li> <li>- Student’s major</li> <li>- Current level of the student</li> <li>- Academic status of the student</li> <li>- Enrollment status of the student</li> <li>- Academic load of the student</li> <li>- Status of the registration approval of the student</li> <li>- Registered credit hours of the student</li> <li>- Passed credit hours of the student</li> <li>- CGPA of the student</li> </ul> </li> <li>2. System should display link that open popup shows proposed courses from academic advisor</li> <li>3. System should allow the registration during the registration period only in the academic calendar</li> <li>4. System should allow to add course during the add period in the academic calendar</li> <li>5. <b>In the event of dropping a course:</b> <ul style="list-style-type: none"> <li>- Users should only be able to drop courses in the specified period defined in the academic calendar</li> <li>- Users should only be able to drop a course if only the demanded registration fees were paid</li> <li>- system must recalculate the number of registered credit hours</li> <li>- If the user is out the drop period, system will not allow to drop or delete courses</li> <li>- If a repeated course was registered, then the repeat flag should be updated</li> <li>- System should change the status of the course to dropped</li> </ul> </li> </ol>



- In case the student paid for the registered courses, system should return the fees related to the dropped courses to the student's balance

**6. System should check some parameters from bylaw and academic plan in order to know the following:**

- Number of credit hours that student can register in a specific semester
- Academic load of each student
- Number of mandatory and elective courses to fulfill
- Number of times can the student repeat a succeeded/failed course
- Least grade needed to repeat a succeeded course
- Course teaching methods
- Course assessments
- Course grading scheme

**7. In case the user registered in course that has co-requisite and user didn't register in those co-requisites, then the system must display the name of the co-requisite the user didn't register in**

**8. In case of registering/adding courses that student didn't register or failed before**

- System should display the courses from the academic plan of the student where he/she passed the pre-requisite while they are offered on the current semester
- System should not display courses which is already registered in the current semester
- System should display course sections to choose the suitable time and teaching methods
- System should not allow students to register/add courses which their pre-requisites are not fulfilled yet
- System should not allow students to register/add courses/sections which are full in capacity
- System must not allow student to register/add courses which have conflict in the schedule with other courses regardless to their status
- System should not save the chosen sections unless all the required teaching methods are registered/added
- System should display course code and course name
- System should display section teaching methods
- System should display a button that can show course schedule of the registered course
- System should display the fees of each course
- System should display payment status of each course
- System should display the credit hours belonged to each course
- System should display the credit hours of the selected courses together

**9. In case of registering/adding a course that student passed in before**

- System should display courses that student had already passed in and wanted to improve the grade, if the course meets the

	<p>conditions defined in the bylaw [least grade for repeating succeeded course]</p> <ol style="list-style-type: none"> <li>10. In case of registering/adding above the academic load, the system will not allow the student to register/add any courses and a notification will be previewed to the student explaining why</li> <li>11. In case of registering/adding a course and a conflict has been found, system displays a button which demonstrates the conflict with which course and when</li> <li>12. In case of defining a pre-requisite course from the course catalogue and another to the same course from the course package in the academic plan, system must make the pre-requisite configured in the academic plan is the primary one in which the user will need according to the acquired major</li> </ol>
<p><b>Modification needed in business rules</b></p>	<ol style="list-style-type: none"> <li>1. <b>In the event of going into the screen of register/add course, the following should be applied:</b> <ol style="list-style-type: none"> <li>a. System should view courses in dropdown menu</li> <li>b. System should view sections in dropdown menu</li> <li>c. System should view already registered courses</li> </ol> </li> <li>2. Student will not be able to register courses until all foundation courses related to the major are passed</li> <li>3. System should allow the user to choose [No clash] option when selecting a section of specific course</li> <li>4. In case the student was blocked/freeze, system must not allow him/her to register any course</li> <li>5. In case the student's status is "Expected to graduate", the user should be allowed to register credit hours less than required academic load only one time during studying period</li> <li>6. In case the student's status is not "Expected to graduate" then system must not allow to drop a course that will lower the academic load than the minimum</li> <li>7. In case the student status is "expected to graduate", system should allow the student to register/add course even if its exam schedule is going to exceed the limit of exams per day</li> <li>8. In case the student's status is "Expected to graduate", system should allow the student to register courses and its pre-requisites on the same semester [last semester]</li> <li>9. In case the user added a course and its pre-requisite in the same semester and tried to drop one of them, the system will prevent the user from this action and a notification would be displayed to the user</li> <li>10. In case the user added a course and its co-requisite in the same semester and tried to drop one of them, the system will drop the other with its registered sections as well</li> <li>11. In the event of choosing [No clash] option, system should view only the sections which are suitable for the student to register</li> </ol>

12. System must not allow students to register courses which will exceed the limit of exams per day which is 2 exams per day even if they will not produce conflict in time
- 13. In the event of selecting a course from the dropdown menu, system should display the offered courses from the academic plan as follows:**
  - a. Courses should be categorized by package which is pre-defined in the academic plan
  - b. Courses that student never took before
  - c. Courses that student failed in
  - d. System should display courses that student had already passed in and wanted to improve the grade if the course meets the conditions defined in the bylaw [least grade for repeating succeeded course]
  - e. System should show the latest course grade beside the course name if the course is repeated for any circumstance [fail repeat – improve repeat]
  - f. Courses which have pre-requisites and courses which don't
  - g. Courses which their pre-requisites are not met yet
  - h. Courses which their pre-requisites are met
14. In the event of registering/adding courses which their pre-requisites are not met yet, the system should display the courses and a message identifying what is the pre-requisite the student should register on registering
15. System should show the latest grade of the course taken before in the dropdown menu beside the course code
16. In case the student wants to improve a course, which is defined as pass/fail, system will not allow to improve that course if he/she passed it
- 17. In case student chose a certain section, the following details should be presented:**
  - a. System should show the slot/period of this section [days and hours]
  - b. System should show the room occupied by this section
  - c. System should show the instructors in charge on this section
  - d. System should show the study language of this section
  - e. System should show the gender indicated for this section
  - f. System should show the capacity and max capacity of section
  - g. System should show how many students are currently registering this section
  - h. System should show how many available seats are in section
  - i. System should show schedule conflict if available with another course section
  - j. System should show exam conflict if available with another course exam
  - k. System should show lab conflict if available with another course lab
  - l. System should show exam time of the demanded section

- m. System should show site conflict if available with another course
- n. System should show no. of exams per day after registering the required section
- o. System should show any notes/remarks related to the selected section

**18. In case of registering/adding course section, the following should be handled:**

- a. System must not view course sections with different gender type than that of the student
- b. System must check the pre-requisites of the required course on registering the course section
- c. System should not show teaching methods to students

**19. In case of registering/adding courses, system should create a record in the audit table containing the following data:**

- a. Course Code
- b. Course Name
- c. Section Number
- d. Operation
- e. Reason
- f. Date
- g. User who took the action

**20. In the event of registering/adding a course section which has no seats left/ conflict, system should preview a button [Add seat] that sends a request to the officer requesting to get in this section**

- a. System will register the course after pressing the [Add seat] button but in an inactive state waiting for approval
- b. After approval, system should change the state of the course to active

**21. [Add seat] button should be available only on the following conditions:**

- a. If all sections related to the required course are full and there is a section suitable with the student's schedule
- b. If there is any type of conflict such as lap or exam

**22. [Add seat] function is coupled with a setting in the academic calendar [add course] period which is defined with a specific time and whether to operate it or not from the [Waiting] flag**

**23. In case of registering/adding courses to improve the grade**

- a. System will display courses which is offered in the current semester even if they are going to produce conflict with the registered/added courses

**24. In case of registering/adding a training/project course some examinations must be code:**

- a. System should check if the training/project course is created to be registered alone in the semester without any other course or not

	<ul style="list-style-type: none"> <li>b. System should check the number of courses can the student register if the training/project course is defined to be registered with a defined number of courses</li> <li>c. If training/project course is defined to be registered with no other courses and user tried to register, a notification should be shown to the user identifying the issue</li> </ul>
<b>Integration with other functions</b>	<ul style="list-style-type: none"> <li>Fees admin</li> <li>Academic calendar</li> <li>Bylaws</li> <li>Student historical data</li> </ul>

## 2.4 Withdrawal from course

<b>Function Name</b>	Withdrawal from course
<b>Function link</b>	UI/UOB_RegAdmin/WithdrawCourses.aspx
<b>Function Description</b>	Through the use of this function, the user can create request to withdraw from course
<b>Steps</b>	<ol style="list-style-type: none"> <li>1. Log in the system</li> <li>2. Access "Student" module</li> <li>3. Choose the menu: My Requests &gt;&gt; Course withdrawal request</li> </ol>
<b>Data to be added</b>	"All" to the dropdown of the courses
<b>Data to be deleted</b>	
<b>Data to be modified</b>	
<b>Current business rules</b>	<ol style="list-style-type: none"> <li>1. System must allow withdrawal only during the pre-defined activity in the academic calendar</li> <li>2. The system must display all withdrawal requests (approved or not approved)</li> <li>3. In case of approval of the request, the student will receive grade of "W"</li> <li>4. The system doesn't allow to delete approved withdrawal request</li> <li>5. After selecting a specific student, the system must display the registered courses in the current semester</li> <li>6. The system must save the name of the user who submitted the withdrawal request</li> <li>7. The system doesn't allow to request a withdrawal if it is outside the withdrawal period which is available in the academic calendar</li> <li>8. The status of the course doesn't change to withdrawal until the request is approved</li> </ol>
<b>Modification needed in business rules</b>	<ol style="list-style-type: none"> <li>1. Student can withdraw from courses without approval from any other user</li> <li>2. Student will be sent an OTP [validation code] via SMS on his/her cell phone</li> <li>3. Student will take status of "W" to the selected course/s after entering the received/correct OTP and saving the request</li> </ol>

	<ol style="list-style-type: none"> <li>4. Student can withdraw from all courses by choosing “All” from the dropdown</li> <li>5. In case a student is on a mandatory semester [fall-spring] and anticipated to withdraw from course that would drop the academic load below the normal, system will not allow this action to be executed more than one time during the whole life cycle of the student on the system</li> <li>6. If the selected course is a pre-requisite or co-requisite to another registered course on the same semester, system must not allow to withdraw this course</li> <li>7. Orientation students are allowed only to withdraw from all courses together, they are not allowed to pick courses for withdrawal</li> <li>8. If the student chose to withdraw from all courses, system will not check for pre-requisites and co-requisites</li> <li>9. In case student chose to withdraw from all courses and some of the courses are not paid, system should leave the non-paid courses registered and withdraw the ones who are paid</li> <li>10. Any error that prevents the withdrawal process from being executed should be previewed/presented in a notification to the student</li> </ol>
<b>Pre-requisite</b>	<ol style="list-style-type: none"> <li>1. Student course registration must be approved before withdrawing from any course</li> <li>2. Courses must be paid in order to have the ability to withdraw from it</li> </ol>
<b>Integration with other functions</b>	<p>SMS Security Admin Registration Admin</p>

## 2.5 Reports


### 2.5.1 Print registration form

<b>Function Name</b>	Print registration form
<b>Function link</b>	ui/deptheadview/studsemregform.aspx
<b>Function Description</b>	Through the use of this function, the user can print the registration form of his/her registration with schedule details
<b>Steps</b>	<ol style="list-style-type: none"> <li>1. Log in the system</li> <li>2. Access “student” module</li> <li>3. Choose the menu: Reports &gt;&gt; My Course Schedule</li> <li>4. User should press “preview” in order to print the registration form</li> </ol>
<b>Search Criteria</b>	No search criteria
<b>Search Results</b>	<p>System should show the following data in the report:</p> <ul style="list-style-type: none"> <li>• Student code</li> <li>• Student major</li> <li>• Student Faculty</li> <li>• Enrolled status</li> <li>• Academic status</li> <li>• CGPA</li> <li>• Total passed CH</li> <li>• Registered CH</li> <li>• Min &amp; Max academic load</li> <li>• Academic Advisor</li> <li>• Sponsor</li> <li>• Course code</li> <li>• Course name</li> <li>• Day, time, room, CH, payment status, fees, exam date and site of each course</li> <li>• Total registered hours</li> <li>• Total fees</li> <li>• Signatures</li> <li>• Stamp of printing date</li> </ul>

	<p style="text-align: center;"><b>Student Registration Form</b> Academic Year: 2020/2021 , Semester: Summer</p> <p style="text-align: right;">University of Bahrain <b>Student</b></p> <p>Student Code: 20134033-HA*****AN Major: B.Sc. in Information Systems Enroll Status: Enrolled Total Passed CH: 111.00 Academic Load Min CH : Max CH: Academic Advisor: DR*****AJ</p> <p style="text-align: right;">Faculty: College of Information Technology Academic Status: To Be Graduated Registered CH: 3.0 CGPA: 2.30 Sponsor:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Course</th> <th>Day</th> <th>&lt;-Time--&gt;</th> <th>Room</th> <th>Site</th> <th>Cr.</th> <th>pay</th> <th>Crs. Status</th> <th>Exam dt.</th> <th>Fee</th> <th>Resp.</th> </tr> </thead> <tbody> <tr> <td>TCS112-COMPUTER PROGRAMMING II-01</td> <td>(LEC) T</td> <td>10:00 AM - 12:30 PM</td> <td>---999</td> <td>Online</td> <td>3.0</td> <td>YES</td> <td></td> <td>2/22/2022 08:30:00</td> <td>11:30:00</td> <td>24.00</td> </tr> <tr> <td></td> <td></td> <td>12:30 U - 10:00 - 12:30</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>(LAB) T</td> <td>09:00 AM - 09:40 AM</td> <td>---888</td> <td>Online</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>09:40 U - 08:00 - 09:40</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="5" style="text-align: right;"><b>Tot.Registered Hrs.</b></td> <td><b>3.0</b></td> <td></td> <td></td> <td></td> <td><b>Tot.Fees</b></td> <td><b>24.00</b></td> </tr> </tbody> </table> <p>Academic Advisor Signature: _____ Registration Head Signature: _____</p> <p style="text-align: center;">Printing Date 1/5/2022 <span style="float: right;">Page 1 of 1</span></p> <p>System should show the following data related to the student in the screen:</p> <ul style="list-style-type: none"> <li>• Student code</li> <li>• College</li> <li>• Major</li> <li>• Enrollment status</li> <li>• Academic status</li> <li>• Total passed CH</li> <li>• Registered CH</li> <li>• CGPA</li> <li>• Academic load [Min/Max]CH</li> <li>• Academic advisor</li> </ul>	Course	Day	<-Time-->	Room	Site	Cr.	pay	Crs. Status	Exam dt.	Fee	Resp.	TCS112-COMPUTER PROGRAMMING II-01	(LEC) T	10:00 AM - 12:30 PM	---999	Online	3.0	YES		2/22/2022 08:30:00	11:30:00	24.00			12:30 U - 10:00 - 12:30										(LAB) T	09:00 AM - 09:40 AM	---888	Online									09:40 U - 08:00 - 09:40									<b>Tot.Registered Hrs.</b>					<b>3.0</b>				<b>Tot.Fees</b>	<b>24.00</b>
Course	Day	<-Time-->	Room	Site	Cr.	pay	Crs. Status	Exam dt.	Fee	Resp.																																																									
TCS112-COMPUTER PROGRAMMING II-01	(LEC) T	10:00 AM - 12:30 PM	---999	Online	3.0	YES		2/22/2022 08:30:00	11:30:00	24.00																																																									
		12:30 U - 10:00 - 12:30																																																																	
	(LAB) T	09:00 AM - 09:40 AM	---888	Online																																																															
		09:40 U - 08:00 - 09:40																																																																	
<b>Tot.Registered Hrs.</b>					<b>3.0</b>				<b>Tot.Fees</b>	<b>24.00</b>																																																									
<b>Data to be added</b>	No change is required																																																																		
<b>Data to be deleted</b>	No change is required																																																																		
<b>Data to be modified</b>	No change is required																																																																		
<b>Current business rules</b>	<ol style="list-style-type: none"> <li>1. System should not show the full name of the academic advisor</li> <li>2. System should show all the registered courses within the current semester</li> <li>3. System should show course code in a hyperlink format</li> <li>4. In case the user pressed on the course code, system should bring a popup view with course details</li> </ol>																																																																		
<b>Modification needed in business rules</b>																																																																			
<b>Integration with other functions</b>																																																																			



## 2.5.2 Course Schedule






<b>Function Name</b>	Course Schedule
<b>Function link</b>	ui/depthheadview/coursesection_view.aspx
<b>Function Description</b>	Through the use of this function, the user can view all faculties' course schedule according to which academic year and semester are chosen
<b>Steps</b>	<ol style="list-style-type: none"> <li>1. Log in the system</li> <li>2. Access "student" module</li> <li>3. Choose the menu: view &gt;&gt; Student schedule</li> <li>4. User should press " " in order to search for course schedule</li> </ol>
<b>Search Criteria</b>	<p>User should be able to filter the results by:</p> <ul style="list-style-type: none"> <li>• Scientific degree [All/UG/PG]</li> <li>• Academic year</li> <li>• Semester</li> <li>• College</li> <li>• Department</li> <li>• Course Code</li> <li>• Choose course from dropdown</li> <li>• Course level</li> <li>• Course section</li> <li>• Instructor</li> <li>• Campus</li> <li>• Building</li> <li>• Room</li> <li>• Days</li> <li>• Courses offered from academic plan</li> <li>• Order by: <ul style="list-style-type: none"> <li>○ Department</li> <li>○ Course</li> <li>○ Section</li> <li>○ Building</li> <li>○ Room</li> </ul> </li> </ul>
<b>Search Results</b>	<p>System should show the following data:</p> <ul style="list-style-type: none"> <li>• Course code</li> <li>• Instructor of this section</li> <li>• Section number</li> <li>• Teaching method of this section</li> <li>• Teaching days</li> <li>• Attending [online-campus]</li> <li>• Building name</li> <li>• Room name</li> <li>• The duration of the section (From-to)</li> </ul>

- Note about the section [for graduate students in summer course only]
- Time table [shows all the sections' time table]

Course	Instructor	Section	Teaching Method	Day	Campus	Building	Room	From	To	Note	Time Table
<a href="#">BIS202</a>	DR*****IL	01	LAB	U,T	Online	-	Virtual Room	11:00 AM	12:40 PM	...	...
<a href="#">BIS202</a>	DR*****IL	01	LEC	U,T	Online	-	Virtual Room	8:00 AM	10:30 AM	...	...
<a href="#">ITBIS105</a>	MR*****KH	01	LAB	U,T	Online	-	Virtual Room	9:00 AM	11:30 AM	...	...
<a href="#">ITCE482</a>	DR*****NI	01	LAB	M,W	Online	-	No Room (LAB)	6:00 PM	8:30 PM	...	...
<a href="#">ITCE490</a>	DR*****NI	01	LAB	M,W	Online	-	No Room (LAB)	6:00 PM	8:30 PM	...	...
<a href="#">ITCS111</a>	AS****LI	01	LAB	M,W	Online	-	No Room (LAB)	10:00 AM	11:40 AM	...	...
<a href="#">ITCS111</a>	AS****LI	01	LEC	U,T	Online	-	No Room (LEC)	8:00 AM	10:30 AM	...	...
<a href="#">ITCS111</a>	DR*****AR	01	LAB	M,W	Online	-	No Room (LAB)	10:00 AM	11:40 AM	...	...
<a href="#">ITCS111</a>	DR*****AR	01	LEC	U,T	Online	-	No Room (LEC)	8:00 AM	10:30 AM	...	...
<a href="#">ITCS112</a>	DR*****ED	01	LAB	U,T	Online	-	No Room (LAB)	8:00 AM	9:40 AM	...	...
<a href="#">ITCS112</a>	DR*****ED	01	LEC	U,T	Online	-	No Room (LEC)	10:00 AM	12:30 PM	...	...
<a href="#">ITCS112</a>	SA*****ED	01	LAB	U,T	Online	-	No Room (LAB)	8:00 AM	9:40 AM	...	...
<a href="#">ITCS112</a>	SA*****ED	01	LEC	U,T	Online	-	No Room (LEC)	10:00 AM	12:30 PM	...	...
<a href="#">ITCS113</a>	AS****LI	01	LAB	M,W	Online	-	No Room (LAB)	10:00 AM	11:40 AM	...	...
<a href="#">ITCS113</a>	AS****LI	01	LEC	U,T	Online	-	No Room (LEC)	8:00 AM	10:30 AM	...	...
<a href="#">ITCS113</a>	DR*****AR	01	LAB	M,W	Online	-	No Room (LAB)	10:00 AM	11:40 AM	...	...
<a href="#">ITCS113</a>	DR*****AR	01	LEC	U,T	Online	-	No Room (LEC)	8:00 AM	10:30 AM	...	...
<a href="#">ITCS113</a>	AS****LI	02	LAB	M,W	Online	-	No Room (LAB)	8:00 AM	9:40 AM	...	...
<a href="#">ITCS113</a>	AS****LI	02	LEC	U,T	Online	-	No Room (LEC)	11:00 AM	1:30 PM	...	...
<a href="#">ITCS113</a>	DR*****AR	02	LAB	M,W	Online	-	No Room (LAB)	8:00 AM	9:40 AM	...	...

<b>Data to be added</b>	No change is required
<b>Data to be deleted</b>	No change is required
<b>Data to be modified</b>	No change is required
<b>Current business rules</b>	<ol style="list-style-type: none"> <li>1. User can search for schedule in a specific or multiple days together</li> <li>2. System should show course code in a hyperlink format</li> <li>3. In case the user pressed on the course code, system should bring a popup view with course details</li> <li>4. System should not view the instructors' full name</li> <li>5. In case user pressed the button which is found in the "Time table" column, system should show a popup view with full schedule of the chosen course</li> </ol>
<b>Modification needed in business rules</b>	
<b>Integration with other functions</b>	Course schedule

## 2.5.3 Course Catalog

<b>Function Name</b>	Course catalog																																																																																																																
<b>Function link</b>	ui/ed_course/coursebool_view.aspx																																																																																																																
<b>Function Description</b>	Through the use of this function, the user can view all faculties' course catalog according to which course type and college are chosen																																																																																																																
<b>Steps</b>	<ol style="list-style-type: none"> <li>1. Log in the system</li> <li>2. Access "student" module</li> <li>3. Choose the menu: view &gt;&gt; Course Catalog</li> <li>4. User should press "  " in order to search for course schedule</li> </ol>																																																																																																																
<b>Search Criteria</b>	<p>User should be able to filter the search by:</p> <ul style="list-style-type: none"> <li>• Course type</li> <li>• College</li> <li>• Department</li> <li>• Course code</li> <li>• Active [Yes/No/All]</li> <li>• Online [All/Yes/No]</li> <li>• Degree Type [UG/PG]</li> <li>• Filter</li> </ul>																																																																																																																
<b>Search Results</b>	<p>System should show the following data:</p> <ul style="list-style-type: none"> <li>• No. of results</li> <li>• Course code</li> <li>• Course name (AR)</li> <li>• Course Title (EN)</li> <li>• School</li> <li>• CH/Points</li> <li>• Number of hours dedicated to lecture method (LEC)</li> <li>• Number of hours dedicated to Practical method (Practical)</li> </ul> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p>No. of results 90 <span style="float: right;">[Select]    </span></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Course Code</th> <th>Course Title (AR)</th> <th>Course Title (EN)</th> <th>School</th> <th>CH / Points</th> <th>LEC</th> <th>Practical</th> </tr> </thead> <tbody> <tr> <td><a href="#">FCOM1101</a></td> <td>التشريح التطبيقي للوجه والفكين (I)</td> <td>Applied Surgical Anatomy for Maxillofacial region ( I )</td> <td></td> <td>2.0</td> <td>2.00</td> <td>0.0</td> </tr> <tr> <td><a href="#">FCOM2102</a></td> <td>التشريح التطبيقي للوجه والفكين II</td> <td>Applied Surgical Anatomy for Maxillofacial region II</td> <td></td> <td>2.0</td> <td>2.00</td> <td>0.0</td> </tr> <tr> <td><a href="#">FCOM3201</a></td> <td>المبادئ مهنية طب الأسنان</td> <td>Dental Professional Ethics</td> <td></td> <td>1.0</td> <td>1.00</td> <td>0.0</td> </tr> <tr> <td><a href="#">FCOM4202</a></td> <td>مكافحة العدوى وسلامة المرضى</td> <td>Infection Control in Dental Practice</td> <td></td> <td>1.0</td> <td>1.00</td> <td>0.0</td> </tr> <tr> <td><a href="#">FCOM5501</a></td> <td>الإعاشات القلبية في الطوارئ</td> <td>Cardiopulmonary Resuscitation (CFR)</td> <td></td> <td>2.0</td> <td>2.00</td> <td>0.0</td> </tr> <tr> <td><a href="#">FELE1502</a></td> <td>الخلايا الجذعية والهندسة الوراثية</td> <td>Stem cells and Tissue engineering</td> <td></td> <td>2.0</td> <td>2.00</td> <td>0.0</td> </tr> <tr> <td><a href="#">FELE2502</a></td> <td>التصوير الفوتوغرافي الطبي للفم والأسنان</td> <td>Photography Dental</td> <td></td> <td>2.0</td> <td>2.00</td> <td>0.0</td> </tr> <tr> <td><a href="#">FELE3502</a></td> <td>طب أسنان المسنين</td> <td>Geriatric Dentistry</td> <td></td> <td>2.0</td> <td>2.00</td> <td>0.0</td> </tr> <tr> <td><a href="#">FELE4502</a></td> <td>الطوارئ الطبية في ممارسة طب الأسنان</td> <td>Medical Emergencies in Dental Practice</td> <td></td> <td>2.0</td> <td>2.00</td> <td>0.0</td> </tr> <tr> <td><a href="#">FELE5502</a></td> <td>تطبيقات علوم الليزر في طب الأسنان</td> <td>Laser Applications in Dentistry</td> <td></td> <td>2.0</td> <td>2.00</td> <td>0.0</td> </tr> <tr> <td><a href="#">FELE6502</a></td> <td>تطبيقات الحاسب الآلي في الأسنان طب</td> <td>Computer sciences and dental informatics</td> <td></td> <td>2.0</td> <td>2.00</td> <td>0.0</td> </tr> <tr> <td><a href="#">FELE7502</a></td> <td>تنظيم المؤتمرات</td> <td>Conference Organization</td> <td></td> <td>2.0</td> <td>2.00</td> <td>0.0</td> </tr> <tr> <td><a href="#">FELE8502</a></td> <td>علوم التغذية الصحية</td> <td>nutrition Human</td> <td></td> <td>2.0</td> <td>2.00</td> <td>0.0</td> </tr> <tr> <td><a href="#">FELE9502</a></td> <td>التفكير العلمي ودراسات البحث</td> <td>Thinking Scientific</td> <td></td> <td>2.0</td> <td>2.00</td> <td>0.0</td> </tr> <tr> <td><a href="#">ENGLA101</a></td> <td>لغة الإنجليزية للمصطلحات الطبية (I)</td> <td>English Language for medical and dental purposes (I)</td> <td></td> <td>2.0</td> <td>2.00</td> <td>0.0</td> </tr> </tbody> </table> </div>	Course Code	Course Title (AR)	Course Title (EN)	School	CH / Points	LEC	Practical	<a href="#">FCOM1101</a>	التشريح التطبيقي للوجه والفكين (I)	Applied Surgical Anatomy for Maxillofacial region ( I )		2.0	2.00	0.0	<a href="#">FCOM2102</a>	التشريح التطبيقي للوجه والفكين II	Applied Surgical Anatomy for Maxillofacial region II		2.0	2.00	0.0	<a href="#">FCOM3201</a>	المبادئ مهنية طب الأسنان	Dental Professional Ethics		1.0	1.00	0.0	<a href="#">FCOM4202</a>	مكافحة العدوى وسلامة المرضى	Infection Control in Dental Practice		1.0	1.00	0.0	<a href="#">FCOM5501</a>	الإعاشات القلبية في الطوارئ	Cardiopulmonary Resuscitation (CFR)		2.0	2.00	0.0	<a href="#">FELE1502</a>	الخلايا الجذعية والهندسة الوراثية	Stem cells and Tissue engineering		2.0	2.00	0.0	<a href="#">FELE2502</a>	التصوير الفوتوغرافي الطبي للفم والأسنان	Photography Dental		2.0	2.00	0.0	<a href="#">FELE3502</a>	طب أسنان المسنين	Geriatric Dentistry		2.0	2.00	0.0	<a href="#">FELE4502</a>	الطوارئ الطبية في ممارسة طب الأسنان	Medical Emergencies in Dental Practice		2.0	2.00	0.0	<a href="#">FELE5502</a>	تطبيقات علوم الليزر في طب الأسنان	Laser Applications in Dentistry		2.0	2.00	0.0	<a href="#">FELE6502</a>	تطبيقات الحاسب الآلي في الأسنان طب	Computer sciences and dental informatics		2.0	2.00	0.0	<a href="#">FELE7502</a>	تنظيم المؤتمرات	Conference Organization		2.0	2.00	0.0	<a href="#">FELE8502</a>	علوم التغذية الصحية	nutrition Human		2.0	2.00	0.0	<a href="#">FELE9502</a>	التفكير العلمي ودراسات البحث	Thinking Scientific		2.0	2.00	0.0	<a href="#">ENGLA101</a>	لغة الإنجليزية للمصطلحات الطبية (I)	English Language for medical and dental purposes (I)		2.0	2.00	0.0
Course Code	Course Title (AR)	Course Title (EN)	School	CH / Points	LEC	Practical																																																																																																											
<a href="#">FCOM1101</a>	التشريح التطبيقي للوجه والفكين (I)	Applied Surgical Anatomy for Maxillofacial region ( I )		2.0	2.00	0.0																																																																																																											
<a href="#">FCOM2102</a>	التشريح التطبيقي للوجه والفكين II	Applied Surgical Anatomy for Maxillofacial region II		2.0	2.00	0.0																																																																																																											
<a href="#">FCOM3201</a>	المبادئ مهنية طب الأسنان	Dental Professional Ethics		1.0	1.00	0.0																																																																																																											
<a href="#">FCOM4202</a>	مكافحة العدوى وسلامة المرضى	Infection Control in Dental Practice		1.0	1.00	0.0																																																																																																											
<a href="#">FCOM5501</a>	الإعاشات القلبية في الطوارئ	Cardiopulmonary Resuscitation (CFR)		2.0	2.00	0.0																																																																																																											
<a href="#">FELE1502</a>	الخلايا الجذعية والهندسة الوراثية	Stem cells and Tissue engineering		2.0	2.00	0.0																																																																																																											
<a href="#">FELE2502</a>	التصوير الفوتوغرافي الطبي للفم والأسنان	Photography Dental		2.0	2.00	0.0																																																																																																											
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<a href="#">FELE5502</a>	تطبيقات علوم الليزر في طب الأسنان	Laser Applications in Dentistry		2.0	2.00	0.0																																																																																																											
<a href="#">FELE6502</a>	تطبيقات الحاسب الآلي في الأسنان طب	Computer sciences and dental informatics		2.0	2.00	0.0																																																																																																											
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<a href="#">ENGLA101</a>	لغة الإنجليزية للمصطلحات الطبية (I)	English Language for medical and dental purposes (I)		2.0	2.00	0.0																																																																																																											
<b>Data to be added</b>	No change is required																																																																																																																
<b>Data to be deleted</b>	No change is required																																																																																																																
<b>Data to be modified</b>	No change is required																																																																																																																

<b>Current business rules</b>	<ol style="list-style-type: none"> <li>1. System should show course code in a hyperlink format</li> <li>2. In case the user pressed on the course code, system should bring a popup view with course details</li> <li>3. User should be able to use additional filtering by pressing the “Filter” button: <ol style="list-style-type: none"> <li>a. College</li> <li>b. Department</li> <li>c. Course code</li> <li>d. Course name</li> <li>e. Courses with credit hours from-to</li> </ol> </li> </ol>
<b>Modification needed in business rules</b>	
<b>Integration with other functions</b>	System admin

### 2.5.4 Offering course list

<b>Function Name</b>	Offering course list
<b>Function link</b>	ui/deptheadview/rpt_stud%20offered_course.aspx
<b>Function Description</b>	Through the use of this function, the user can view all faculties’ course offering according to which semester, academic year, and college are chosen
<b>Steps</b>	<ol style="list-style-type: none"> <li>1. Log in the system</li> <li>2. Access “student” module</li> <li>3. Choose the menu: Reports &gt;&gt; Offering course list</li> <li>4. User should press “preview” in order to search for course offering</li> </ol>
<b>Search Criteria</b>	<p>User should be able to filter the results by:</p> <ul style="list-style-type: none"> <li>• Academic year</li> <li>• Semester</li> <li>• College</li> <li>• Department</li> <li>• Scientific Degree [UG/PG]</li> <li>• Courses which are found in the academic plan only</li> </ul>
<b>Search Results</b>	<p>System should show the following data:</p> <ul style="list-style-type: none"> <li>• Faculty</li> <li>• Academic year</li> <li>• Semester</li> <li>• Serial number</li> <li>• Course code</li> <li>• Course name</li> <li>• Level of course</li> <li>• Credit hours</li> </ul>

- Pre-requisite courses
- Section number
- Available seats
- Course is available in student plan [yes-no]
- Online registration [yes-no]
- Date stamp

List of offered courses For Student  
Academic Year 2020/2021, Semester Summer

University of Bahrain  
Student

Faculty: College of Information Technology

Department: Information Systems

SN	Course Code	Course Name	Level	Credit Hours	PreRequisite Courses	Sections No.	Available Seats	Student Plan	Online Registration
1	BIS202	COMPUTERS AND BUSINESS INFORMATION SYSTEMS	2	3.0		1	0	No	Yes
2	ITBIS105	ELEMENTARY COMPUTING	1	3.0		1	-38	No	Yes
3	ITIS213	DATABASE MANAGEMENT SYSTEMS	2	3.0	ITIS103 and ITCS113	1	0	No	Yes
4	ITIS216	DATABASE MANAGEMENT SYSTEMS	2	3.0	(ITCS215 or ITCS214) and (ITIS102 or ITIS103)	0	0	Yes	Yes
5	ITIS232	SYSTEMS ANALYSIS AND DESIGN I	2	3.0	ITIS213	1	1	No	Yes
6	ITIS402	INDUSTRIAL TRAINING	4	1.0	Min CH.85	2	2	Yes	No
7	ITIS483	INTERNSHIP IN INFORMATION TECHNOLOGY	4	1.0		2	2	No	Yes

Print Date 1/9/2022 11:59:27 AM

Page 1 of 1

<b>Data to be added</b>	No change is required
<b>Data to be deleted</b>	No change is required
<b>Data to be modified</b>	No change is required
<b>Current business rules</b>	<ol style="list-style-type: none"> <li>1. User should be able to choose to print only the offered courses from his/her academic plan</li> <li>2. User should be able to print the records related to the UG or PG of the student</li> <li>3. User should be able to print the report in Arabic and English language</li> </ol>
<b>Modification needed in business rules</b>	
<b>Integration with other functions</b>	System admin