

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**  
**“Jnana Sangama”, Belgaum -590014, Karnataka.**



**PROJECT WORK-2 REPORT**  
**On**

**“DEPARTMENT ONLINE COURSE REGISTRATION”**

*Submitted by*

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*Under the Guidance of*  
**Prof. Selva Kumar S**  
**Assistant Professor, BMSCE**

*in partial fulfillment for the award of the degree of*  
**BACHELOR OF ENGINEERING**  
*in*  
**COMPUTER SCIENCE AND ENGINEERING**



**B.M.S. COLLEGE OF ENGINEERING**  
**(Autonomous Institution under VTU)**  
**BENGALURU-560019**  
**JUNE 2021**

**B. M. S. College of Engineering,  
Bull Temple Road, Bangalore 560019**  
(Affiliated To Visvesvaraya Technological University, Belgaum)  
**Department of Computer Science and Engineering**



**CERTIFICATE**

This is to certify that the project work entitled **“DEPARTMENT ONLINE COURSE REGISTRATION”** carried out by **SHWETA PATIL (1BM19CS156), SNEHA SRIVASTAVA (1BM19CS158), SOHAN R KUMAR (1BM19CS159), SRISHTI DOREPALLY (1BM19CS160)** who are bonafide students of B.M.S. College of Engineering. It is in partial fulfillment for the award of Bachelor of Engineering in Computer Science and Engineering of the Visveswararajah Technological University, Belgaum during the year 2021. The project report has been approved as it satisfies the academic requirements in respect of Project Work-2(19CS4PWPW2) work prescribed for the said degree.

Signature of the Guide

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Signature with date

**B.M.S. COLLEGE OF ENGINEERING**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



**DECLARATION**

We, **SHWETA PATIL (1BM19CS156), SNEHA SRIVASTAVA (1BM19CS158), SOHAN R KUMAR (1BM19CS159), SRISHTI DOREPALLY (1BM19CS160)** students of 4th Semester, B.E, Department of Computer Science and Engineering, BMS College of Engineering, Bangalore, hereby declare that, this Project Work2 entitled **"DEPARTMENT ONLINE COURSE REGISTRATION"** has been carried out by us under the guidance of Prof . **Selva Kumar S, Assistant Professor**, Department of CSE, BMS College of Engineering ,Bangalore during the academic semester February-June 2021.

We also declare that to the best of our knowledge and belief, the development reported here is not from part of any other report by any other student

Signature

**SHWETA PATIL (1BM19CS156)**  
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## **1. INTRODUCTION**

Website development for “Department Online Course Registration”

This online submission system supports following

**USERS:**

- a. Student
- b. CS Office staff

### **Functionalities under Student login**

- i. Students of all semesters can register through an online application.
- ii. Display of the list of subjects registered

### **Functionalities under CS office staff login**

- i. Display of the list of students registered.

## **1.1 OVERVIEW**

This system will help students register themselves for particular courses as per their respective semesters. It has an inbuilt validation system. If the data fed is invalid, an appropriate message is displayed to the user. After successfully logging into the system by using their email id and password, the students can choose their courses and register. Registered students' details are saved in the database.

The staff also has the privilege to log in to the system using their respective email IDs and passwords to view the details of the students and their corresponding courses for which they have registered. The administrator has to perform the duties of maintaining the course details. Any changes to the courses' structure is maintained by the administrator.

## **1.1 MOTIVATION**

"A good education is the foundation of a better future." Education is the tool used to improve, adapt and change the world. It is a necessity and a basic right. However, due to the corona virus pandemic, the college life of students has been put on a hold. Everything is being done online, with the internet. Not just lectures, but even internships and webinars. Students have returned to their hometowns, and are getting their education and experience from the comfort of their homes. Some students have tough situations like travel, financial and health issues to deal with. In this situation, it becomes impossible for them to go to the college offices for something as minute as registering for courses every semester. Our team has come together to solve this issue with the knowledge we have acquired this past year. We have developed a website to make it easier, not just for students to register for courses, but also for the faculty to find data of the students with a click of the mouse.

## **2. SOFTWARE REQUIREMENTS**

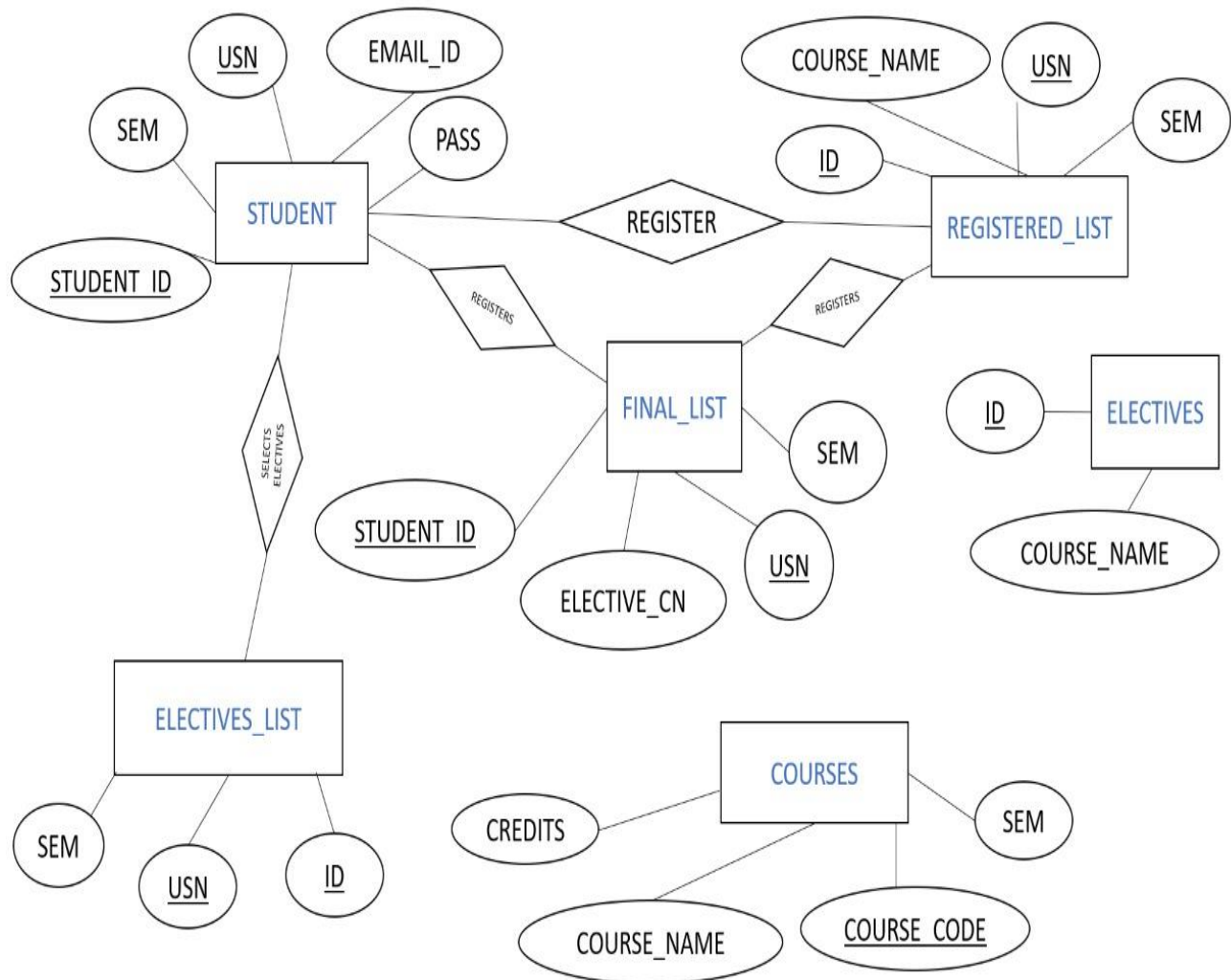
### **2.1 Hardware Requirements:**

- A PC with the following or greater specifications:
  - Intel Core i3 or higher
  - 8 GB RAM
  - 500 GB Hard Drive
- A stable internet connection (2Mbps or higher)

### **2.2 Software Requirements:**

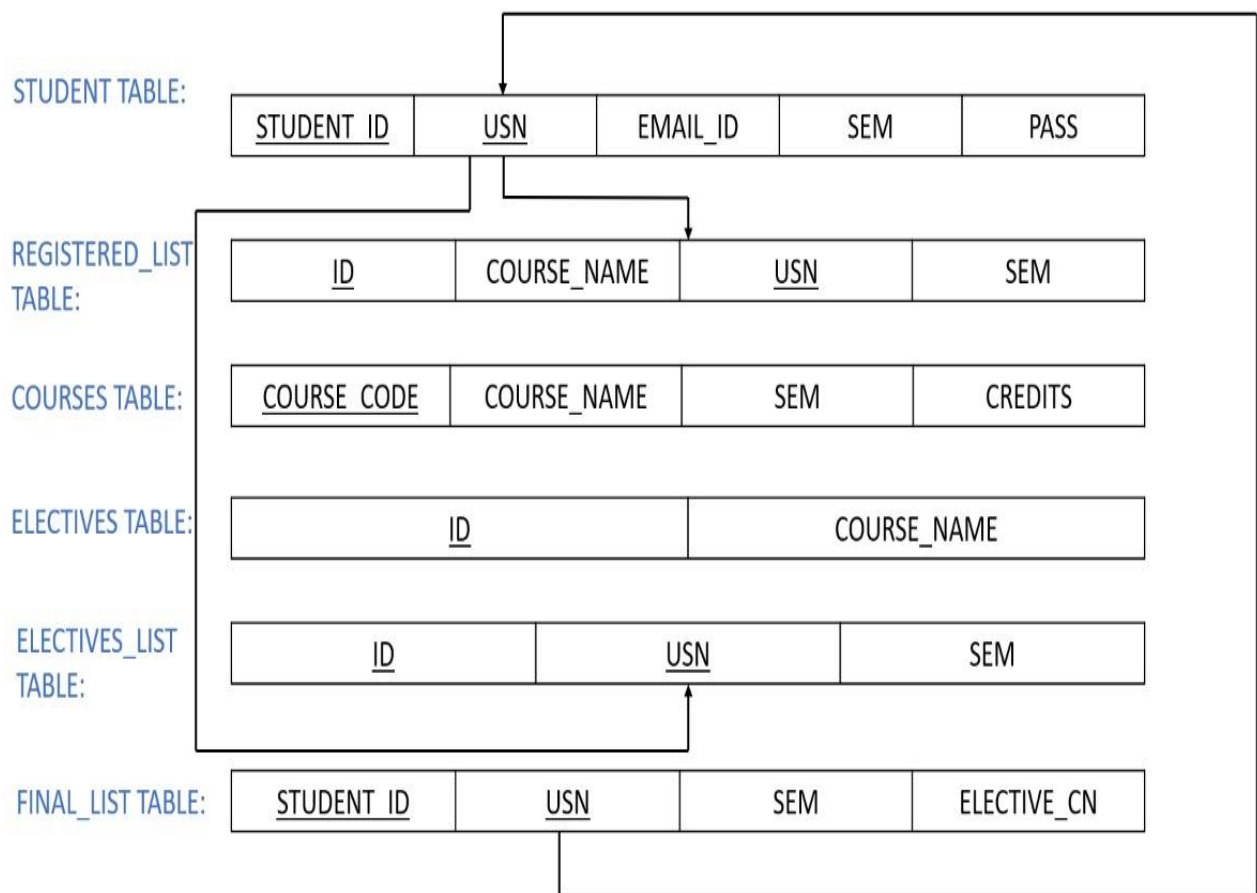
- Operating system : Windows, Mac OS
- Browser : Google Chrome
- Front end technologies are : HTML, CSS, JavaScript
- IDE : Microsoft Visual Studio
- Back end requirement : PHP , SQL
- Server : XAMPP server

### 3. ER DIAGRAM OF THE PROJECT





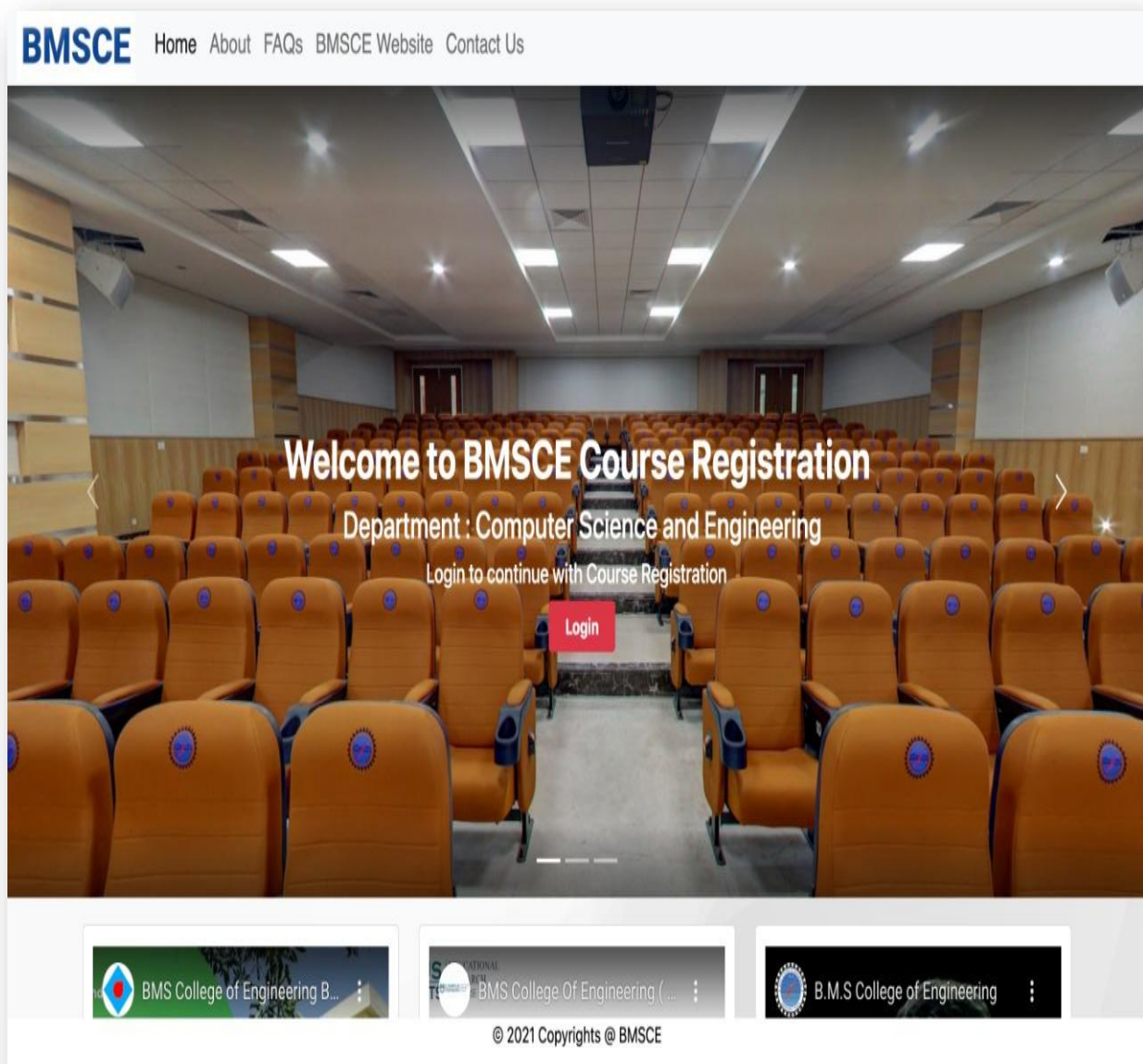
## 4. SCHEMA OF THE PROJECT



**NORMALIZATION :** Normalization is done for the tables and we have tested till third normal form (3NF).

## 5. USER INTERFACE DESIGN

### 5.1 . HOME PAGE: Welcome page for course registration.



**5.2. LOGIN PAGE:** This page includes login form for the users. Here the users have to enter the details required and get themselves logged in by switching on the switch me on button provided and followed by clicking on the Login button.

The screenshot displays the BMSCE login page with a navigation bar at the top containing the BMSCE logo and links for Home, About, FAQs, BMSCE Website, and Contact Us. The page is divided into two main sections: Faculty Login and Student Login.

**Faculty Login Form:**

- Title: Faculty Login
- Email address: Enter Email
- Password: Enter Password (with a [Forgot Password?](#) link)
- Security notice: We'll never share your password with anyone else.
- Switch: Switch Me On! (toggle switch)
- Button: Login

**Student Login Form:**

- Title: Student Login
- Email address: Enter Email
- USN: Enter Your USN
- Semester: Select Your Semester: Choose Your Semester
- Password: Enter Password (with a [Forgot Password?](#) link)
- Security notice: We'll never share your password with anyone else.
- Switch: Switch Me On! (toggle switch)
- Button: Login

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## IF STUDENT LOGS IN

**5.3. COURSE LIST:** As per the selected semester the following pages get displayed. Which includes course code, course name and credits.

**BMSCE** [Home](#) [About](#) [FAQs](#) [BMSCE Website](#) [Contact Us](#) [Logout](#)

### SEMESTER-1

SL. NO	COURSE CODE	COURSE NAME	CREDITS
1.	18MA1BSEM1	ENGINEERING MATHEMATICS-1	4
2.	18CY1BSCHY	ENGINEERING CHEMISTRY	5
3.	18EE1ESELE	ELEMENTS OF ELECTRICAL ENGINEERING	4
4.	18CV1ESENM	ENGINEERING MECHANICS	4
5.	18ME1ESEED	ELEMENTS OF ENGINEERING DRAWING	3
6.	18HS1NCENG	FUNCTIONAL ENGLISH	0

☐ I accept that these are the courses I am registering for.

SUBMIT

**NOTE:** In case of any problems/doubts/queries,contact your proctor immediately.

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**BMSCE** [Home](#) [About](#) [FAQs](#) [BMSCE Website](#) [Contact Us](#) [Logout](#)

### SEMESTER-3

SL. NO	COURSE CODE	COURSE NAME	CREDITS
1.	19MA3BSSDM	STATISTICS AND DISCRETE MATHEMATICS	4
2.	19CS3ESMMC	MICROPROCESSORS AND MICROCONTROLLERS	4
3.	19CS3PCOOJ	OBJECT ORIENTED JAVA PROGRAMMING	4
4.	19CS3PCDST	DATA STRUCTURES	4
5.	19CS3PCCOA	COMPUTER ORGANISATION AND ARCHITECTURE	3
6.	19CS3PCLOD	LOGIC DESIGN	3
7.	19HS3PCEVS	ENVIRONMENTAL STUDIES	2
8.	19CS3PWPW1	PROJECT WORK-1	2
9.	19CS3NCNC3	PHYSICAL ACTIVITY(SPORTS, YOGA, ETC.)	0

☐ I accept that these are the courses I am registering for.

SUBMIT

**NOTE:** In case of any problems/doubts/queries,contact your proctor immediately.

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## SEMESTER-5

SL. NO	CODE	COURSE NAME	CREDITS
1.	20CS5PCAIP	ARTIFICIAL INTELLIGENCE	4
2.	20CS5PCCON	COMPUTER NETWORKS	4
3.	20CS5PCUSP	UNIX SHELL AND SYSTEM PROGRAMMING	4
4.	20CS5PCSEG	SOFTWARE ENGINEERING	3
5.	20CS5HSSPM	SOFTWARE PROJECT MANAGEMENT AND FINANCE	2
6.	20CS5PEIOT	INTERNET OF THINGS	3
7.	20CS5PEAAG	ADVANCED ALGORITHMS	3
8.	20CS5PWPW3	PROJECT WORK-3	1
9.	20CS5NCNC5	MAKING VIDEOS WITH SOCIAL MESSAGE	0

☐ I accept that these are the courses I am registering for.

SUBMIT

NOTE: In case of any problems/doubts/queries, contact your proctor immediately.

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## SEMESTER-7

SL. NO	COURSE CODE	COURSE NAME	CREDITS
1.	21IC7BSBIE	BIOLOGY FOR ENGINEERS	2
2.	21CS7HSCFI	CYBER LAW, FORENSICS AND IPR	3
3.	21CS7PEBLC	BLOCK CHAIN	3
4.	21CS7PEDIS	DISTRIBUTED SYSTEMS	3
5.	21CS7OEDAS	DATA SCIENCES	3
6.	20CS5PEIOT	INTERNET OF THINGS	1
7.	21CS7PCIMC	INDUSTRY MOTIVATED COURSE	1
8.	21CS7PWPP1	MAJOR PROJECT PHASE-1	3
9.	21CS7SRSEM	TECHNICAL SEMINAR	1
10.	21CS7NCNC7	MOOC COURSE/VIRTUAL LAB	0

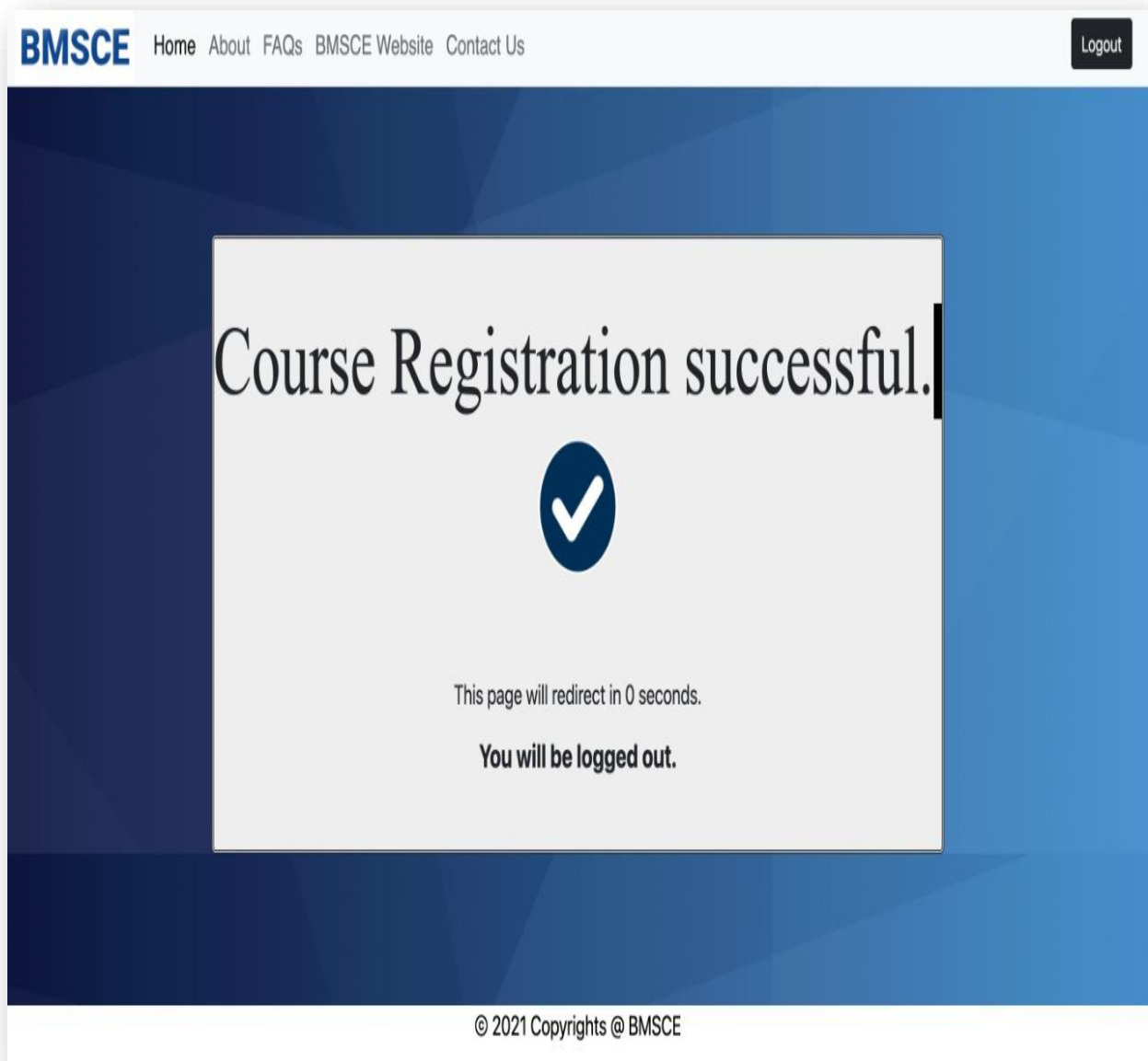
☐ I accept that these are the courses I am registering for.

SUBMIT

NOTE: In case of any problems/doubts/queries, contact your proctor immediately.

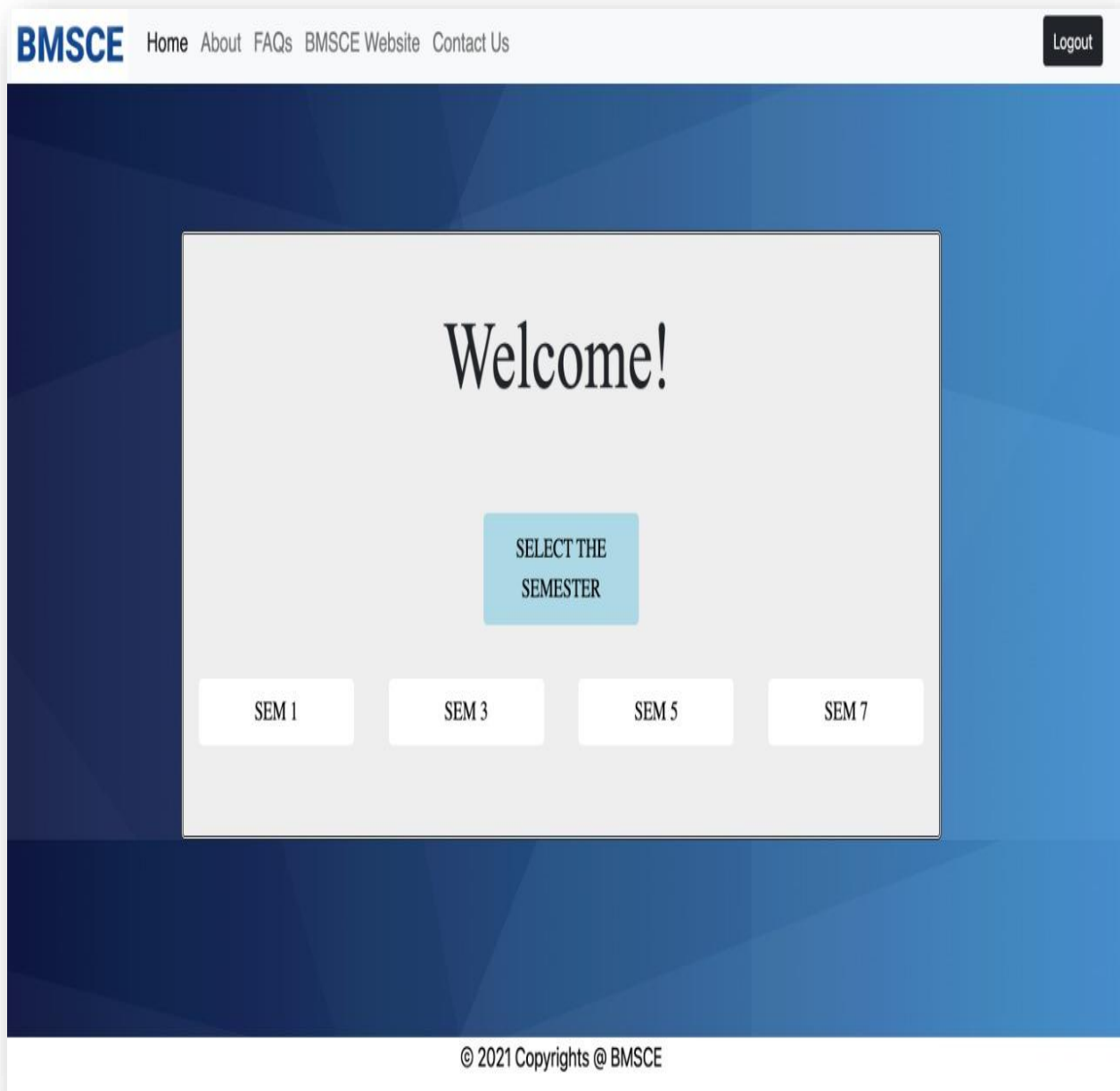
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**5.4. REGISTRATION CONFIRMATION PAGE:** This page displays a confirmation message saying ‘Course Registration Successful’ to users.



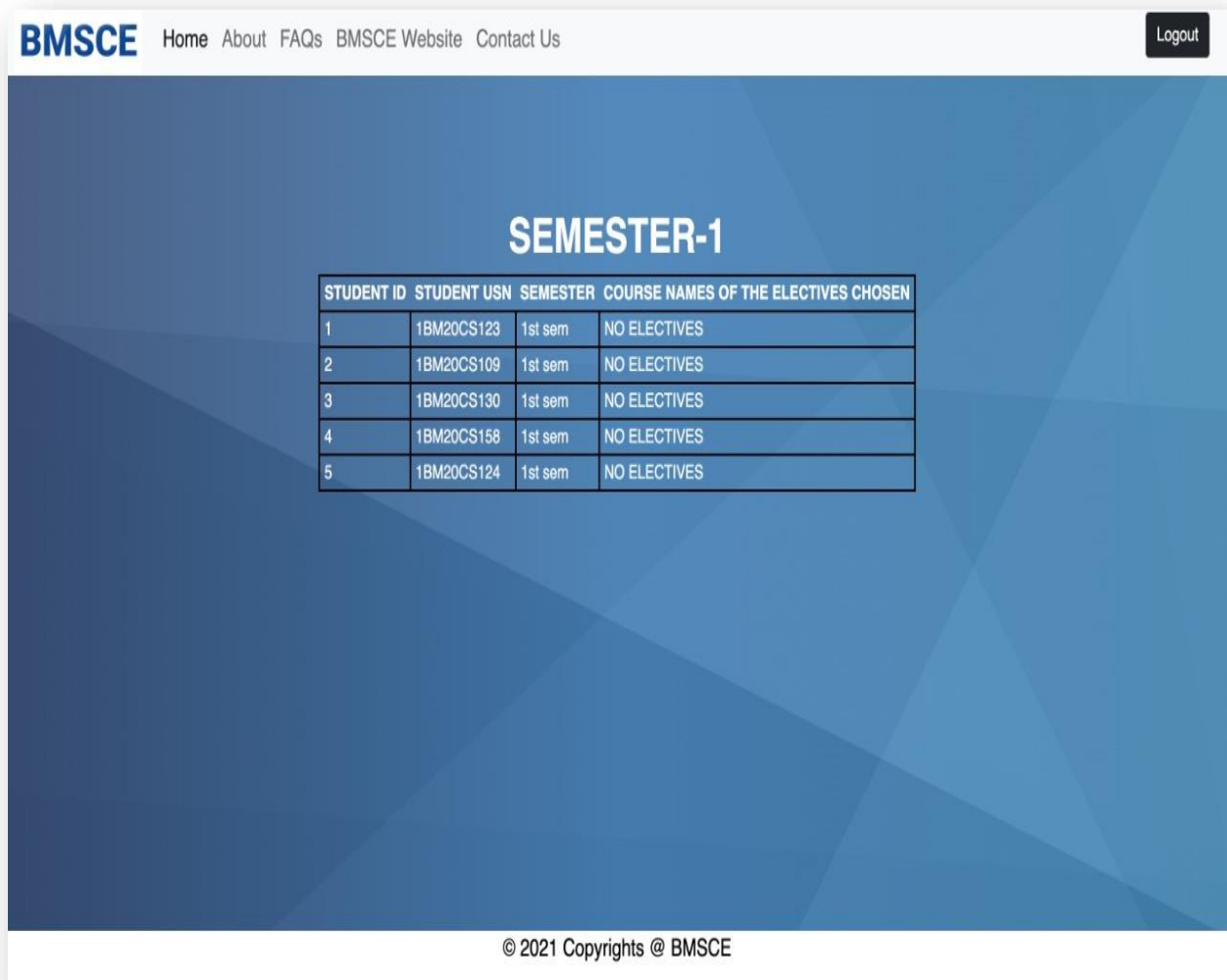
## IF FACULTY LOGS IN:

**5.5 . SEMESTER SELECTION PAGE :** Here the faculty has to choose the semester to get the details of registered students.



**5.6. DISPLAY LISTS OF REGISTERED STUDENTS :** As per the selected semester by the faculty registered students list of that semester gets displayed.

**SEMESTER 1 :**



The screenshot shows a web application interface for BMSCE. At the top, there is a navigation bar with the BMSCE logo and links for Home, About, FAQs, BMSCE Website, and Contact Us. A Logout button is located in the top right corner. The main content area has a blue background with a geometric pattern. In the center, the text "SEMESTER-1" is displayed above a table. The table lists five students, all of whom have selected "NO ELECTIVES" for the "1st sem".

STUDENT ID	STUDENT USN	SEMESTER	COURSE NAMES OF THE ELECTIVES CHOSEN
1	1BM20CS123	1st sem	NO ELECTIVES
2	1BM20CS109	1st sem	NO ELECTIVES
3	1BM20CS130	1st sem	NO ELECTIVES
4	1BM20CS158	1st sem	NO ELECTIVES
5	1BM20CS124	1st sem	NO ELECTIVES

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## SEMESTER 3 :

**BMSCE** [Home](#) [About](#) [FAQs](#) [BMSCE Website](#) [Contact Us](#) [Logout](#)

### SEMESTER-3

STUDENT ID	STUDENT USN	SEMESTER	COURSE NAMES OF THE ELECTIVES CHOSEN
6	1BM19CS88	3rd sem	NO ELECTIVES
7	1BM19CS129	3rd sem	NO ELECTIVES
8	1BM19CS103	3rd sem	NO ELECTIVES
9	1BM19CS110	3rd sem	NO ELECTIVES
10	1BM19CS165	3rd sem	NO ELECTIVES

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## SEMESTER 5:

**BMSCE** [Home](#) [About](#) [FAQs](#) [BMSCE Website](#) [Contact Us](#) [Logout](#)

### SEMESTER-5

STUDENT ID	STUDENT USN	SEMESTER	COURSE NAMES OF THE ELECTIVES CHOSEN
11	1BM18CS99	5th sem	ADVANCED JAVA AND J2EE , ADVANCED ALGORITHMS
12	1BM18CS117	5th sem	INTERNET OF THINGS , ADVANCED COMPUTER ARCHITECHTURE
13	1BM18CS121	5th sem	ADVANCED JAVA AND J2EE , ADVANCED ALGORITHMS
14	1BM18CS119	5th sem	INTERNET OF THINGS , SYSTEM SOFTWARE AND COMPILER DESIGN
15	1BM18CS78	5th sem	ADVANCED JAVA STRUCTURES , ADVANCED ALGORITHMS

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## SEMESTER 7:

**BMSCE** [Home](#) [About](#) [FAQs](#) [BMSCE Website](#) [Contact Us](#) [Logout](#)

### SEMESTER-7

STUDENT ID	STUDENT USN	SEMESTER	COURSE NAMES OF THE ELECTIVES CHOSEN
17	1BM17CS123	7th sem	BLOCK CHAIN , CLOUD COMPUTING , DATA SCIENCES
18	1BM17CS110	7th sem	BLOCK CHAIN , SOFTWARE ARCHITECHTURE AND DESIGN PATTERNS , PYTHON PROGRAMMING
19	1BM17CS88	7th sem	NOSQL DATABASE , CLOUD COMPUTING , PYTHON PROGRAMMING
20	1BM17CS84	7th sem	BLOCK CHAIN , SOFTWARE ARCHITECHTURE AND DESIGN PATTERNS , PYTHON PROGRAMMING
21	1BM17CS103	7th sem	MULTIMEDIA COMPUTING , DISTRIBUTED SYSTEMS , PYTHON PROGRAMMING

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## 6. REFERENCES:

1. <https://www.w3schools.com/>
2. <https://www.google.com/>
3. <https://www.youtube.com/>
4. <https://stackoverflow.com/>
5. <https://uigradients.com/>