GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY

MAJOR PROJECT REPORT

On

"Gjus&t Edu Online"

SUBMITTED TOWARDS THE PARTIAL
FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF THE
DEGREE OF

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE & ENGINEERING

2018-2021

Under supervision of:-

Dr. Saroj Ratnoo

Professor

Department of CSE

GJUS&T, Hisar

Submitted by

Name : Rajveer Singh

Roll no: 170010139022

B.Tech C.S.E 4th Year

8th Semester

Department of Computer Science & Engineering

CERTIFICATE

This is to certify that **RAJVEER SINGH**(170010139022).Students of Bachelor of Technology in **Computer Science & Engineering** from **GURU JAMBESHWAR UNIVERSITY OF SCIENCE AND TECHNOLOGY, Hisar** have completed the project entitled **"Gjus&t Edu Online".**

Dr. Saroj Ratnoo
Department Of CSE
GJUS&T Hisar

DECLARATION

I hereby certify that the work which is being presented in the project entitled **"Gjus&t Edu Online"** to **Guru Jambheshwar University Of Science & Technology, Hisar** in partial fulfillment of the requirement for the award of the degree of **Bachelor of Technology** in **Computer Science and Engineering** is an authentic record of my own work carried under the guidance of **Dr. Saroj Ratnoo**(Professor, Department of CSE, GJUS&T, Hisar).

I further declare that the work reported in this project has not been submitted, either in part or full for the award of any other degree or diploma in this institute or any other institute.

Place: Hisar

Signature

Dr.Saroj Ratnoo

Professor

RAJVEERSINGH

(170010139022)

B.Tech CSE 4th Year (8th Sem)

ACKNOWLEDGEMENT

Today, when I have completed my project work, I am thinking that how easily I have succeeded in completing this project. It is due to all those people who helped me in accomplishing my tasks and supported me whenever I needed them all across the accomplishment of this Project. My heart is so filled with gratitude for those persons that I am unable to find proper words. However, I am trying to express my humble thanks towards all of them.

I am very thankful to **Dr. Saroj Ratnoo,** Department of CSE, and Project In-charge for this Project.

ABSTRACT

Online education is very important in today's life. Due to covid-19, the students are not able to go to Institute, schools for education purposes. There are lots of students that not getting proper guidelines in the educational field. They do not have any proper study material. The internet has lots of study material but not in one place and the available study material is not informative for them. It is a very serious concern is related to students about their education. How they get the study material from their college or schools in a systematic and organized manner. This problem is not only limited to the student, teachers also facing issue in delivering their lecture in a systematic manner.

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Chapter-1

INTRODUCTION

Educational websites can include websites that have games, videos or topic related resources that act as tools to enhance learning and supplement classroom teaching. These websites help make the process of learning entertaining and attractive to the student, especially in today's age.

While there are many advantages of such websites, we also need to be aware of the negatives. Students need to be guided properly. Without proper guidance, students may find resources and content that are not reliable or do not align with the direction of the teaching in class. Some websites are huge and offer a massive variety of games and resources. Students may be easily distracted on such websites and end up spending time on activities that are either below their level or do not complement or add to the classroom teaching. Unrestricted access and freedom on the internet can be dangerous, especially for younger students.

1.1

Why E-Learning?

More and more organizations are becoming actively involved in E-Learning, as they are starting to realize how impactful and rewarding it can really be. It can help organizations become better and stand out from the competition, simply because it provides employees with outstanding opportunities tolearn and improve their skills.

Learning and development are crucial because, as employees learn and grow, they become more satisfied with their jobs and they want to push harder and contribute to the company's success. Before you know it, business is booming, and it's all because of employees who were empowered to go the extra mile and help their organization thrive.

This is exactly what E-Learning can help you accomplish and why it has become so important and popular in the business world, no matter the industry or niche. Here are the key reasons why E-Learning is absolutely essential.

1. Speeding Up Employee Training

According to Brandon Hall Group's HCM Outlook 2017 Survey, E-Learning can significantly reduce employee training time. It typically requires 40-60% less employee time than learning in a traditional classroom setting. It enables much faster delivery because employees can access E-Learning material anytime they want, and anywhere they are, setting their own pace and training whenever they have spare time.

Therefore, they don't need to follow the pace of the group and, more importantly, they can easily skip what they already know, and focus on learning what they actually need. Also, they don't need to travel to their training events or stay after work to engage in training, which additionally saves time and enables them to learn, and improve much faster.

2. Cost Reduction

Cost reduction is often the main reason why companies switch from traditional classroom-based training to E-Learning. In-house training tends to be very expensive, primarily because of the need for a professional trainer who will deliver it and who will help employees improve theirknowledge and skills.

On the other hand, E-Learning requires only an online training software that is not just cost-effective, but also enables employees to train at home. This translates to much lower costs related to travel, training venues, learning material, and trainers, not to mention that E-Learning almost immediately leads to lower costs by speeding up employee training.

3. Maximum Knowledge Retention

Maximizing knowledge retention is one of the most rewarding benefits of E-Learning. According to Brandon Hall (2001 and Rosenberg 2001), E-Learning can increase knowledge retention rate by 25-60%, simply because it is much more engaging than learning in a traditional classroom setting.

Since E-Learning provides employees with various types of interactive content and multimedia, they can retain much more of what they learn and improve their skills and performance quickly. You can include gamification and provide them with interactive quizzes and activities that enable real- time feedback, which will all create an effective learning environmentwhere your employees can truly grow and improve.

4. Increasing Productivity

Self-paced online learning leads to much higher productivity since employees can train at home, and then focus on their core tasks while at work. Learning in their free time will lead to better performance and higher efficiency, especially because online E-Learning software will enable them to revisit any information they need, whenever they need it.

According to IBM statistics, E-Learning can increase productivity by 50%. By utilizing online learning software, you will provide your employees with an incredible opportunity to engage in their training courses at any

convenient time (at home, during downtime at work, or even on-the-go). This will enable them to quickly get up to speed with everything they need to learn, and their training will not get in conflict with their core daily tasks.

5. Better Collaboration

Almost every online learning software provides useful communication and collaboration tools, which are essential for knowledge improvement and building a strong collaborative workforce. This software will enable your employees to communicate with you and among one another in real-time, which will lead to increased engagement and a comfortable and empowering learning environment.

Real-time collaboration and feedback provided by E-Learning will help you effectively address everyone's strengths and weaknesses, and deal with skill gaps, so that you can truly help your learners improve their skills and abilities, and ultimately enable them to improve and grow.

1.2

Benefits of Online Learning

1) Added Flexibility of Online Learning

Not many people have the ability to take time off from work to commit to a full-time graduate program, and others often travel for work. For those who still need to juggle working and going back to school, the flexibility of an online program provides individuals with the opportunity to learn while still working and growing professionally.

By earning your master's degree online, you can learn on your own schedule. Rather than leave the office early or skip family dinner to commute to campus, you're logging on when it's convenient for you—at a time that doesn't interfere with other commitments. That flexibility allows you to more easily balance work, life, and graduate school.

Additionally, students don't always feel comfortable asking professors to repeat a point they made in their last lecture or dive into deeper detail on a specific topic. When learning online, you can revisit past material or stop the lecture to perform additional research or organize your notes. You can work through the lesson plan at your own pace to ensure you're really mastering the material before moving on to the next section. This added flexibility allows online learners to move through the course work at their own speed and get the most out of the degree program.

2) Better Time Management

Juggling work, family, and school isn't an easy thing to do. Employers recognize this and admire the time management skills it takes to balance all three. Because there are no set classroom times within an online degree program, and students have the flexibility to create their own schedules, it'sup to the student to proactively reach out to faculty, complete assignments on time, and plan ahead.

One of the things we know employers expect is that we manage our time effectively. It's never enough to be at your desk on time in the morning and

stay through the end of the day; most of us are expected to get more projects done in less time. Online classes keep you on a regular schedule of making and meeting deadlines, allowing you to practice managing your time and staying productive week-to-week. Employers often appreciate the time management skills needed to complete an online degree program and view these skills as a valuable asset in potential employees.

3) Demonstrated Self-motivation

By successfully earning your master's degree online, you're demonstrating that you can practice time management and are self-motivated, which are among the top 10 employability skills employers want to see in new hires. By succeeding in earning an online degree, you prove that you can tackle multiple tasks, set priorities, and adapt to changing work conditions.

Instructors expect students to be independent, to learn on their own, and to engage with the material that they are teaching. It's the same thing in the workforce; employers want you to be self-motivated, go after things that interest you, and seek new opportunities and ways of doing things. The more you put your heart into it—whether it's learning online or working for your employer—the more you'll succeed.

4) Improved Virtual Communication and Collaboration

Learning to work with others in a virtual environment can make you a more effective leader. You'll develop critical leadership skills by utilizing specialized knowledge, creating efficient processes, and making decisions about best communication practices, such as what should be discussed in-person or electronically.

In an online program, you'll also participate in discussion boards with your classmates, communicate with professors via email, and collaborate through various software programs. As the program progresses, you'll get better at pitching your ideas and making strong, succinct, professional arguments through text.

Participating in discussion boards is a lot like participating in a virtual team. Communicating your ideas clearly, getting responses, and projecting a professional image are necessary skills in a virtual workplace. Instructors, just like managers, expect you to write respectful, thoughtful, and polite communications, respond to different perspectives, and build a rapport with your peers. Luckily, in an online program, you'll refine this skill quickly—post after post, week after week, course after course.

5) Refine Critical - thinking Skills

Online learning facilitates the ability to think critically about what you do every day. The goal in the classroom is to challenge you to think differently, and employers want you to do that, too–to think critically in your role at work. Mastering this skill is what will set you apart as a student, and as an employee.

Critical thinking plays a role in any type of education; however, online learning forces you to develop your critical thinking skills in ways that you might not have practiced in an in-person classroom setting. This sort of self-paced and self-motivated learning demonstrates to future employers that you have the ability to think critically and overcome any obstacles that might stand in your way.

6) New Technical Skills

Your online degree also equates to strong technical skills, a definite plus for any job seeker. As part of your coursework, you will likely need to utilize digital learning materials, get familiar with new tools and software, and troubleshoot common issues. After a program's worth of technical hurdles, big and small, an employer could trust that you are versed in common collaboration tools, content management systems, and basic troubleshooting.

With more companies using virtual teams, it's important to learn how to collaborate remotely. Your classmates will likely live in different time zones, which you need to learn how to adapt to and schedule around.

Chapter-2

Tools & Language Requirement

Hardware Tools

- Computer & Laptop
- With OS (Window-7 and ABOVE)
- Ram-4gb / Rom- 512gb
- Free memory space- 100gb

Software Tools

- (React –Js or Visual Studio Code)
- Any Web-browser (chrome, etc.)

Languages

- HTML
- CSS
- JAVA-SCRIPT

2.1

VisualStudio

Microsoft Visual Studio is **an integrated development environment (IDE)** from Microsoft. It is used to develop computer programs, as well as websites, web apps, web services and mobile apps. ... Visual Studio includes a code editor supporting IntelliSense (the code completion component) as well as code refactoring.

HTML

HTML is the World Wide Web's core markup language. Originally, HTML was primarily designed as a language for semantically describing scientific documents. Its general design, however, has enabled it to be adapted, over the subsequent years, to describe a number of other types of documents and even applications.

HTML5 was first released in a public-facing form on 22 January 2008, witha major update and "W3C Recommendation" status in October 2014. Its goals were to improve the language with support for the latest multimedia and other new features; to keep the language both easily readable by humans and consistently understood by computers and devices such as web browsers, parser, etc., without X HTML's rigidity; and to remain backward-compatible with older software.

CSS

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification

presentation characteristics, enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file which reduces complexity and repetition in the structural content as well as enablingthe .css fileto be cached to improve the page load speed between the pages that share the file and its formatting.

JavaScript

JavaScript, often abbreviated as JS, is a programming language that conforms to the ECMAScript specification. JavaScript is high-level, often just-in-time compiled, and multi-paradigm.

Alongside HTML and CSS, JavaScript is one of the core technologies of the World Wide Web. Over 97% of websites use it client-side for web page behavior, often incorporating third-party libraries. All major web browsers have a dedicated JavaScript engine to execute the code on the user's device.

As a multi-paradigm language, JavaScript supports event-driven, functional, and imperative programming styles. It has application programming interfaces (APIs) for working with text, dates, regular expressions, standard data structures, and the Document Object Model (DOM).

Chapter-3

OBJECTIVE

- The objective of the project is providing a better quality of content to the students from their colleges or schools and also a better service to the college.
- This project uses Visual Studio that is best in their field because it'svery light & Support fast library of JavaScript and also is backward compliable & very flexible.
- Firebase. That provide software as a service you don't have so much time to manage the server and traffic all these thing done by the Firebase

3.1

FIREBASE

Firebase Hosting is **built for the modern web developer**. Websites and apps are more powerful than ever with the rise of front-end JavaScript frameworks like Angular and static generator tools like Jekyll. ... Using the Firebase CLI, you deploy files from local directories on your computer to our Hosting servers.

Key capabilities

Serve content over a secure connection : The modern web is secure. Zero-configuration SSL is built into Firebase Hosting, so content is always delivered securely.

Host static and dynamic content plus micro services : Firebase Hosting supports all kinds of content for hosting, from your CSS and HTML files toyour Express.js micro services or APIs.

Deliver content fast : Each file that you upload is cached on SSDs at CDN edges around the world and served as g-zip . We auto-select the best compression method for your content. No matter where your users are,the content is delivered fast.

Emulate and even share your changes before going live : View and test your changes on a locally hosted URL and interact with an emulated back-end.

Deploy new versions with one command : Using the Firebase CLI, you can get your app up and running in seconds. Command line tools make it easy to add deployment targets into your build process.

And if you need to undo the deploy, Hosting provides one-click rollbacks.

3.2

METHODOLOGY

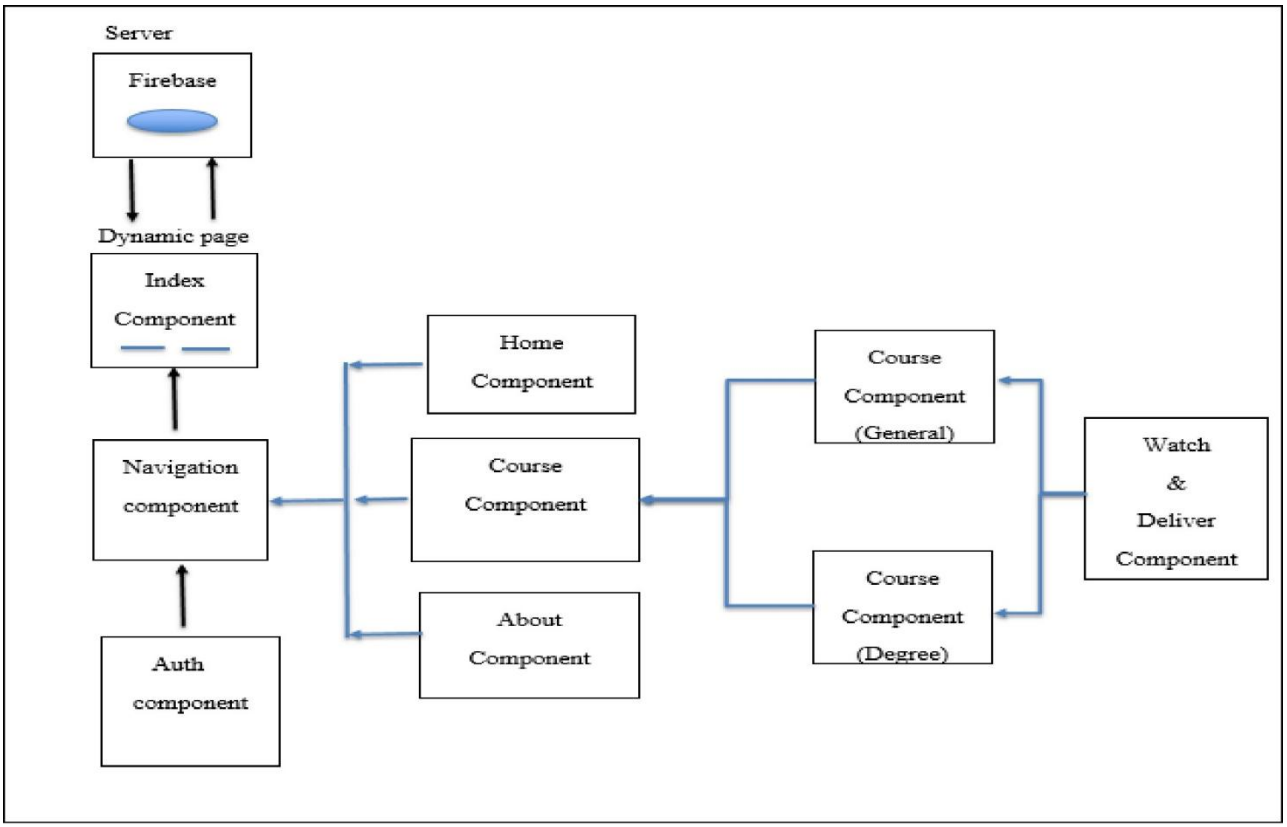
If you look at the data flow diagram you can easily find out our data flow is always in one direction. This happening due to the one-way binding property of react application.

So how this is happening and how we manage it because in an application back & forth data to work properly so the answer is that is hipping by usingthe reduce another very versatile, flexible & light weight library it used to manage the data.

What actually it does is it create a store, action & reducer as the name suggest store create a storage mechanism, action create action or events and reducer combine the data and store it into store.

So according to data-flow diagram there is a dynamic page called Index that contains all other pages in hierarchical manner. Firstly, it contains the navigation bar from this bar we can navigate on to the other component like courser about us. Course component contain two sub parts one for general things & other for the degree. Both of them are connected to the watch component where a user can view their study material in the form of Video, Text and Diagram.

DATAFLOW-DIAGRAM



Chapter-4

PROBLEMDEFINATION

As we know that in this covid-19 situation all the educational offline institute like Universities, College and schools are closed. The Student isnot able to get their education properly. They do not getting the proper guidelines related to the study.

The students facing lots of problems like they did not get a proper book for their study.

There are multiple E-Learning Websites on the internet over the world like Udemy, w3schools, java points, etc. They provide Paid and free courses but our Universities, College, Schools does not have their own e-learning website.

4.1

PROPOSEDSOLUTION

We propose to design the Front end of the E-Learning Website using HTML, CSS, JavaScript to develop the Website.

The User interface of the Website is simple and easy to use. On this website, there are lots of features Like E-book, Syllabus, Old Question paper Trade-related courses, Notes provided by teachers, etc.

Chapter-5

CODING

The purpose of code is to facilitate the identification, retrieval of the items and information. A code is oriented collection of symbols design to provide unique identification of an entry or attribute. Code is built with manually exclusive features. Codes in all cases specify object which are physical or an performance characteristics. They are used to give optimal distraction and other information.

Codes are used for identifying, accessing, storing and matching records. The codes ensure that only one value of the code with a single meaning is correctly applied to give entity or attribute as described in various ways. Code can also be design in a manner easily understood and applied by the user.

5.1

Web-Programming

Web programming refers to the writing, markup and coding involved in Web development, which have Web content, Web client and server scripting and network security. The most common languages used for Web programming are- XML, HTML, JavaScript, Perl 5 and PHP. Web programming is different from just programming, which requires interdisciplinary knowledge on the application area, client and server scripting, and database technology.

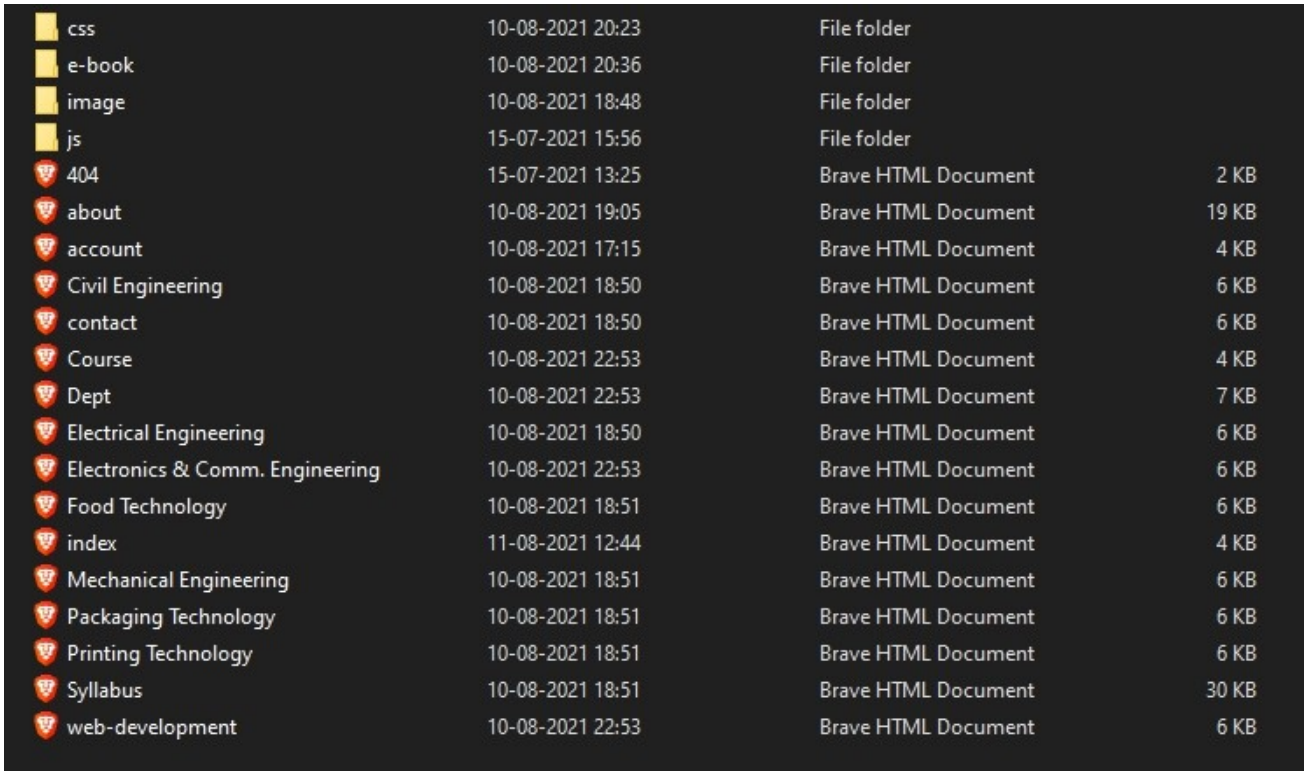
Web programming can be briefly categorized into client and server coding. The client side needs programming related to accessing data from users and providing information. It also needs to ensure there are enough plug ins to enrich user experience in a graphic user interface, including security measures.

1. To improve user experience and related functionalities on the client side, JavaScript is usually used. It is an excellent client-side platform for designing and implementing Web applications.

2. HTML5 and CSS3 supports most of the client-side functionality provided by other application frameworks.

Chapter-6

FILE COMPONENT



css	10-08-2021 20:23	File folder	
e-book	10-08-2021 20:36	File folder	
image	10-08-2021 18:48	File folder	
js	15-07-2021 15:56	File folder	
404	15-07-2021 13:25	Brave HTML Document	2 KB
about	10-08-2021 19:05	Brave HTML Document	19 KB
account	10-08-2021 17:15	Brave HTML Document	4 KB
Civil Engineering	10-08-2021 18:50	Brave HTML Document	6 KB
contact	10-08-2021 18:50	Brave HTML Document	6 KB
Course	10-08-2021 22:53	Brave HTML Document	4 KB
Dept	10-08-2021 22:53	Brave HTML Document	7 KB
Electrical Engineering	10-08-2021 18:50	Brave HTML Document	6 KB
Electronics & Comm. Engineering	10-08-2021 22:53	Brave HTML Document	6 KB
Food Technology	10-08-2021 18:51	Brave HTML Document	6 KB
index	11-08-2021 12:44	Brave HTML Document	4 KB
Mechanical Engineering	10-08-2021 18:51	Brave HTML Document	6 KB
Packaging Technology	10-08-2021 18:51	Brave HTML Document	6 KB
Printing Technology	10-08-2021 18:51	Brave HTML Document	6 KB
Syllabus	10-08-2021 18:51	Brave HTML Document	30 KB
web-development	10-08-2021 22:53	Brave HTML Document	6 KB

In this section, there are lots of files that contain lots of information. Itconsists .html files, .css files, ,js files, Image, Pdf, etc.

The implementation of HTML, CSS, JAVA-SCRIPT is mainly in visualstudio.

Chapter-7

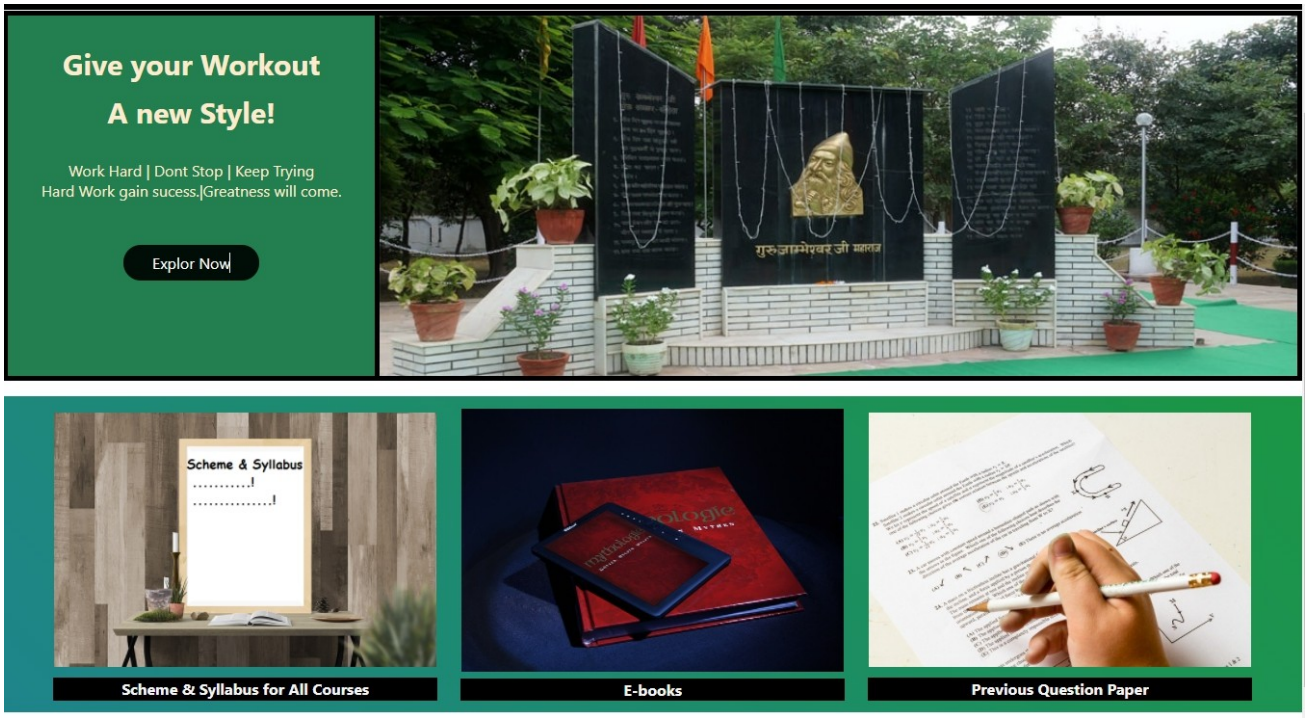
RESULT ANALYSIS

In this section, we Display all the Images as Output and their explanation in detail.

HEADER

- The Header Section consists top portion of the web page.
- The Top Section of the web page contains the Site Logo and Name of the Web site and search bar, Account function.

BODY



- The Body Section consists Middle view of the web page.

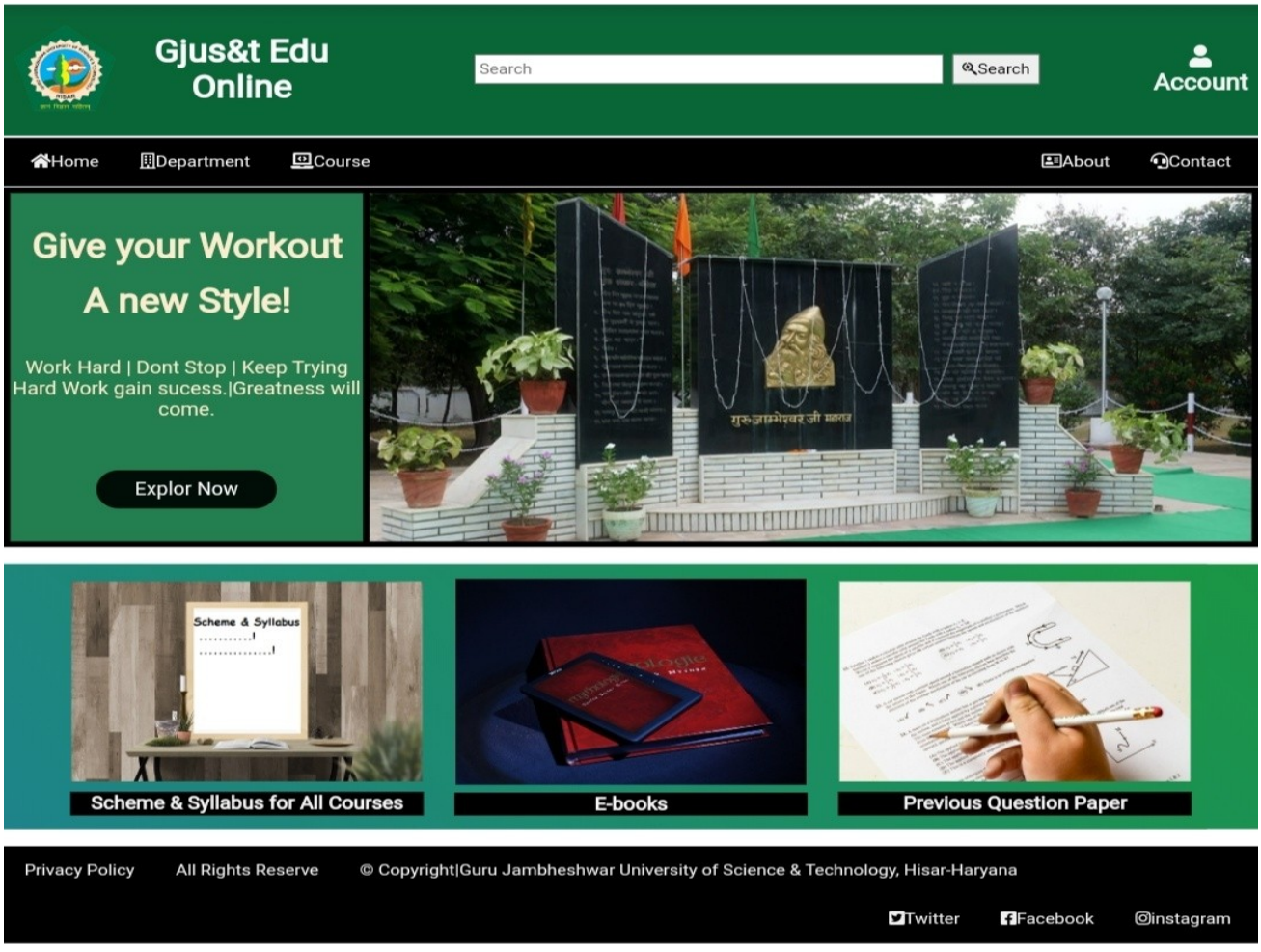
- The Body Section of the web page contains the University Image andlots of functions related to the Web site.

FOOTER

- The Footer Section consists Bottom portion of the web page.
- The Bottom Section of the web page contains the Privacy policy,All rights and some social media links.

7.1

HOMEPAGE



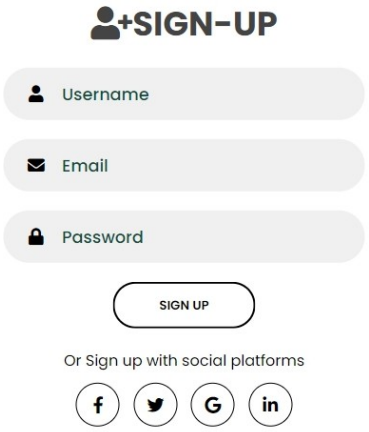
7.2

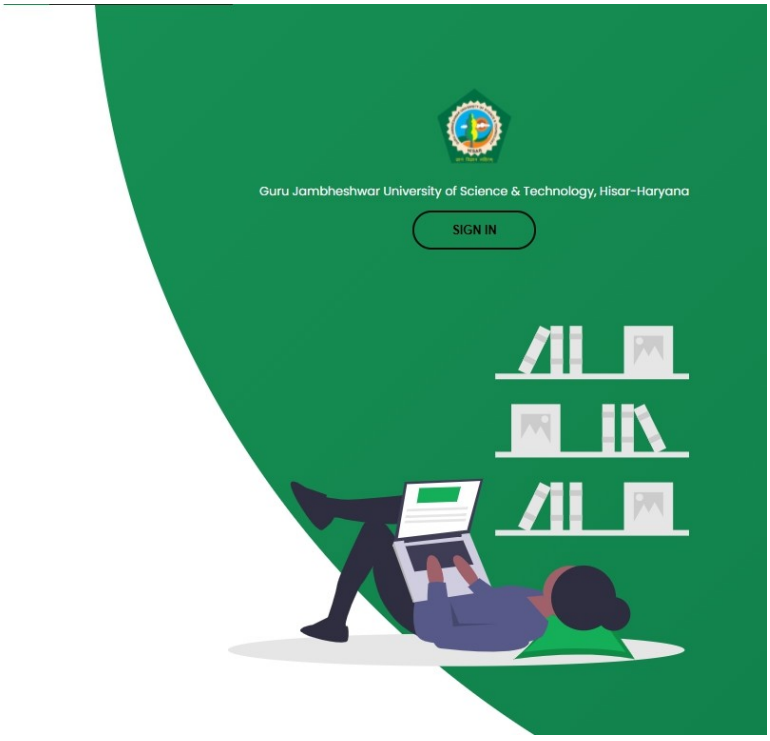
ACCOUNT

It Contain Sign-In & Sign-up Page.

Sign-up Page

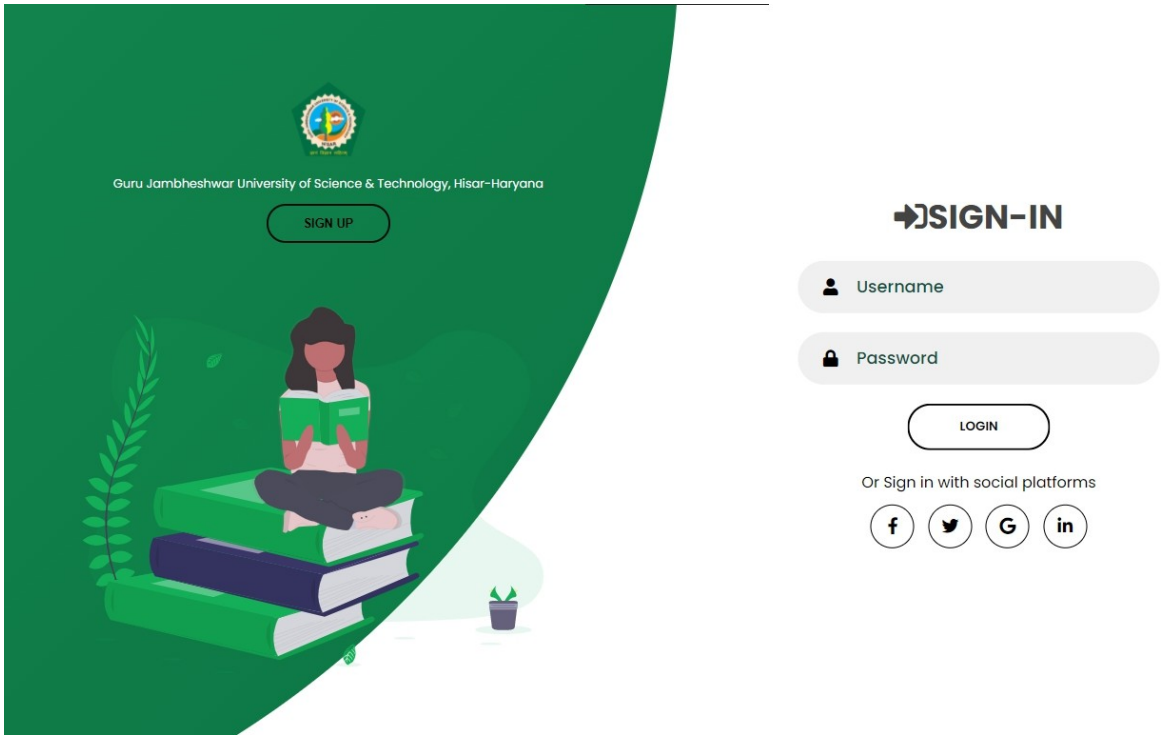
- In the Sign-up Section We need to provide the Username, E-mail ID, And Password.
- In this page we can directly access the website through Facebook,Twitter, Google, Linked-in.





7.3

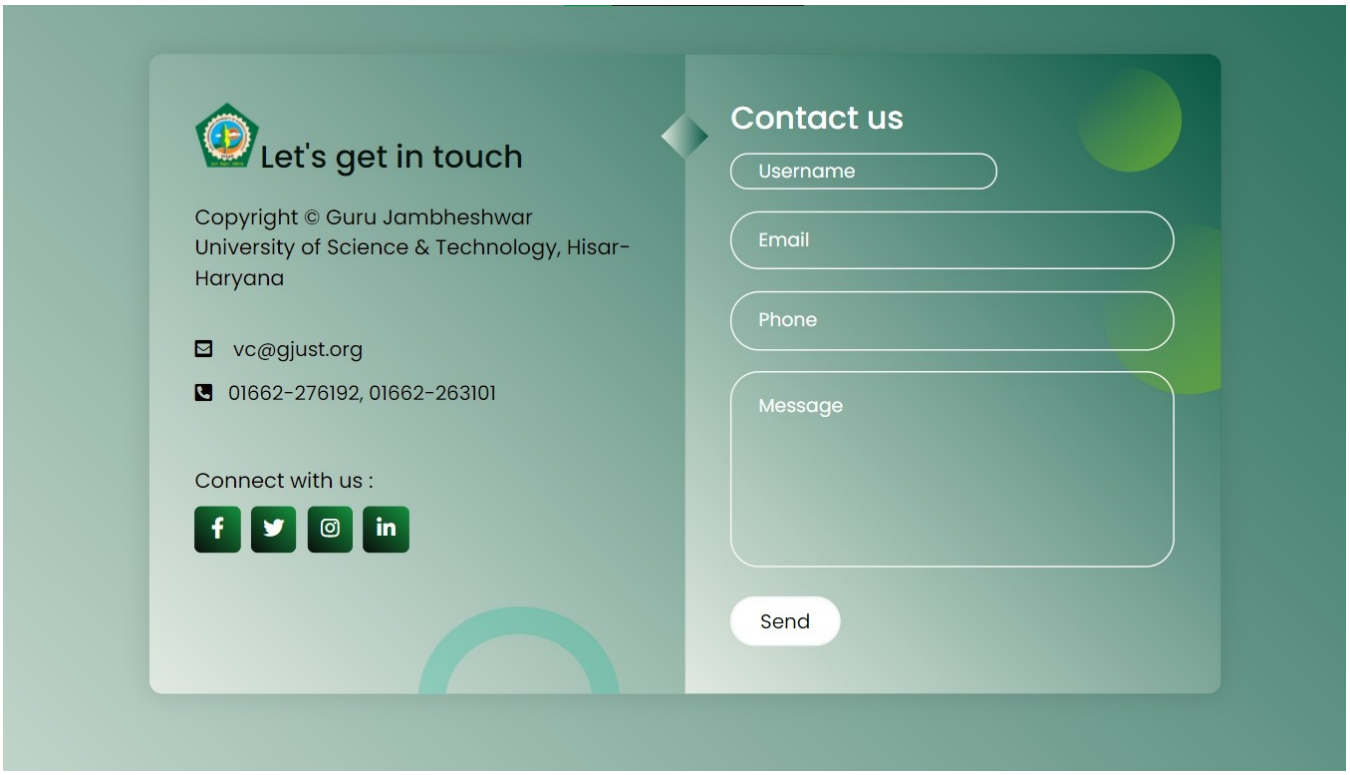
Sign-In Page



- In the Sign-In Section We need to provide the Username and Password.
- In this page we can directly access the website through Facebook,Twitter, Google, Linked-in.

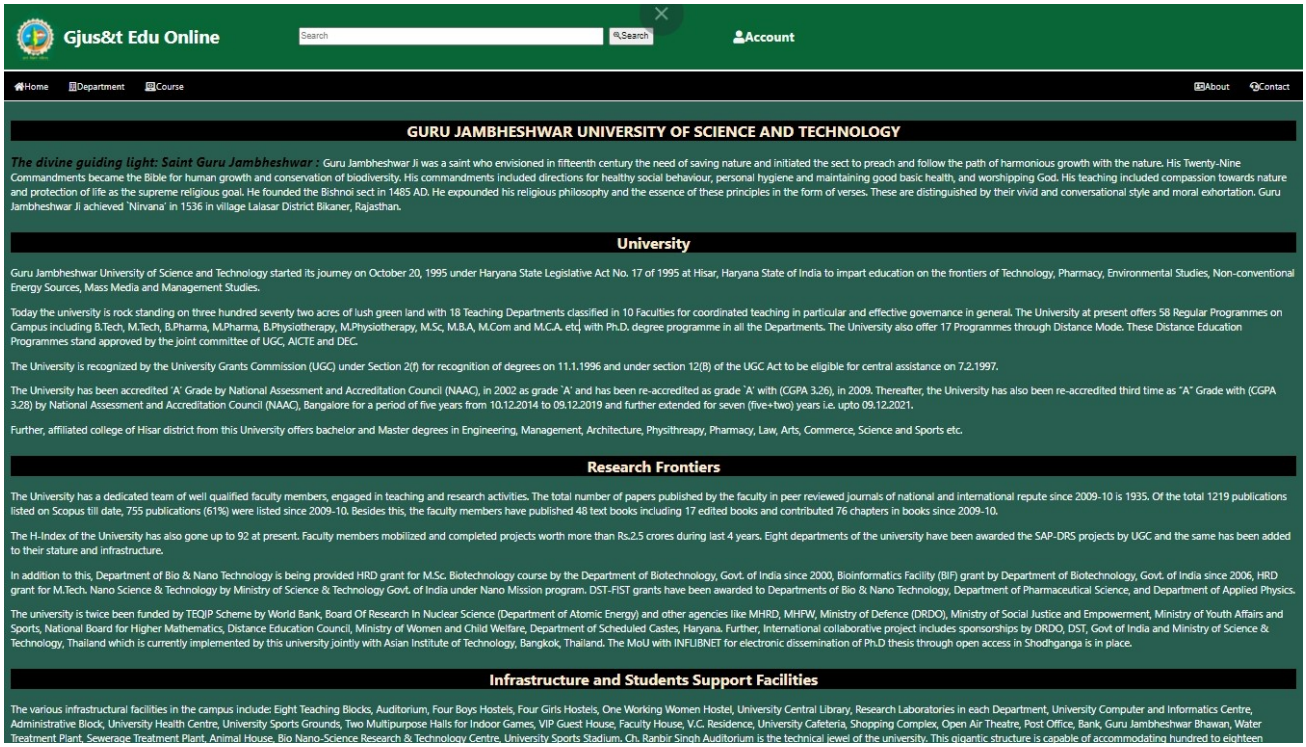
7.4

Contact-us



7.5

About-us



Gjus&t Edu Online

Search

Account

Home Department Course About Contact

GURU JAMBHESHWAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

The divine guiding light: Saint Guru Jambheshwar : Guru Jambheshwar Ji was a saint who envisioned in fifteenth century the need of saving nature and initiated the sect to preach and follow the path of harmonious growth with the nature. His Twenty-Nine Commandments became the Bible for human growth and conservation of biodiversity. His commandments included directions for healthy social behaviour, personal hygiene and maintaining good basic health, and worshipping God. His teaching included compassion towards nature and protection of life as the supreme religious goal. He founded the Bishnoi sect in 1485 AD. He expounded his religious philosophy and the essence of these principles in the form of verses. These are distinguished by their vivid and conversational style and moral exhortation. Guru Jambheshwar Ji achieved 'Nirvana' in 1536 in village Lalasar District Bikaner, Rajasthan.

University

Guru Jambheshwar University of Science and Technology started its journey on October 20, 1995 under Haryana State Legislative Act No. 17 of 1995 at Hisar, Haryana State of India to impart education on the frontiers of Technology, Pharmacy, Environmental Studies, Non-conventional Energy Sources, Mass Media and Management Studies.

Today the university is rock standing on three hundred seventy two acres of lush green land with 18 Teaching Departments classified in 10 Faculties for coordinated teaching in particular and effective governance in general. The University at present offers 58 Regular Programmes on Campus including B.Tech, M.Tech, B.Pharma, M.Pharma, B.Physiotherapy, M.Physiotherapy, M.Sc, M.B.A, M.Com and M.C.A. etc with Ph.D. degree programme in all the Departments. The University also offer 17 Programmes through Distance Mode. These Distance Education Programmes stand approved by the joint committee of UGC, AICTE and DEC.

The University is recognized by the University Grants Commission (UGC) under Section 2(f) for recognition of degrees on 11.1.1996 and under section 12(B) of the UGC Act to be eligible for central assistance on 7.2.1997.

The University has been accredited 'A' Grade by National Assessment and Accreditation Council (NAAC), in 2002 as grade 'A' and has been re-accredited as grade 'A' with (CGPA 3.26), in 2009. Thereafter, the University has also been re-accredited third time as "A" Grade with (CGPA 3.28) by National Assessment and Accreditation Council (NAAC), Bangalore for a period of five years from 10.12.2014 to 09.12.2019 and further extended for seven (five+two) years i.e. upto 09.12.2021.

Further, affiliated college of Hisar district from this University offers bachelor and Master degrees in Engineering, Management, Architecture, Physithreapy, Pharmacy, Law, Arts, Commerce, Science and Sports etc.

Research Frontiers

The University has a dedicated team of well qualified faculty members, engaged in teaching and research activities. The total number of papers published by the faculty in peer reviewed journals of national and international repute since 2009-10 is 1935. Of the total 1219 publications listed on Scopus till date, 755 publications (61%) were listed since 2009-10. Besides this, the faculty members have published 48 text books including 17 edited books and contributed 76 chapters in books since 2009-10.

The H-Index of the University has also gone up to 92 at present. Faculty members mobilized and completed projects worth more than Rs.2.5 crores during last 4 years. Eight departments of the university have been awarded the SAP-DRS projects by UGC and the same has been added to their stature and infrastructure.

In addition to this, Department of Bio & Nano Technology is being provided HRD grant for M.Sc. Biotechnology course by the Department of Biotechnology, Govt. of India since 2000, Bioinformatics Facility (BIF) grant by Department of Biotechnology, Govt. of India since 2006, HRD grant for M.Tech. Nano Science & Technology by Ministry of Science & Technology Govt. of India under Nano Mission program. DST-FIST grants have been awarded to Departments of Bio & Nano Technology, Department of Pharmaceutical Science, and Department of Applied Physics.

The university is twice been funded by TEQIP Scheme by World Bank, Board Of Research In Nuclear Science (Department of Atomic Energy) and other agencies like MHRD, MHFW, Ministry of Defence (DRDO), Ministry of Social Justice and Empowerment, Ministry of Youth Affairs and Sports, National Board for Higher Mathematics, Distance Education Council, Ministry of Women and Child Welfare, Department of Scheduled Castes, Haryana. Further, International collaborative project includes sponsorships by DRDO, DST, Govt of India and Ministry of Science & Technology, Thailand which is currently implemented by this university jointly with Asian Institute of Technology, Bangkok, Thailand. The MoU with INFLIBNET for electronic dissemination of Ph.D thesis through open access in Shodhganga is in place.

Infrastructure and Students Support Facilities

The various infrastructural facilities in the campus include: Eight Teaching Blocks, Auditorium, Four Boys Hostels, Four Girls Hostels, One Working Women Hostel, University Central Library, Research Laboratories in each Department, University Computer and Informatics Centre, Administrative Block, University Health Centre, University Sports Grounds, Two Multipurpose Halls for Indoor Games, VIP Guest House, Faculty House, V.C. Residence, University Cafeteria, Shopping Complex, Open Air Theatre, Post Office, Bank, Guru Jambheshwar Bhawan, Water Treatment Plant, Sewerage Treatment Plant, Animal House, Bio Nano-Science Research & Technology Centre, University Sports Stadium. Ch. Ranbir Singh Auditorium is the technical jewel of the university. This gigantic structure is capable of accommodating hundred to eighteen hundred persons at one go in its four state of the art seminars and theatre construction This building is intended for convocations, conferences, seminars, workshops, concerts, ballets, film shows, plays and other stage performances etc. of national & international level.

University Library: The spacious Library contains over 95313 books and 5173 bound periodicals In addition, besides 180 Indian Journals, 375 e-journals, 58 Magazines and 18 Newspapers. The University Library has the access to more than 7100 e-journals UGC-INFONET Consortium and access of ASPP database through AICTE-INDEST Consortium. The Library has the perpetual access of SPSS.

Pt. Deendayal Upadhyaya Computer & Informatics Centre: Centre is equipped with more than 250 computers in 6 labs alongwith a server room with latest configuration servers and other peripherals which are deployed to meet the computing requirements of all the students, research scholars, faculty and staff of the University. There is a full-fledged language lab which has wordsworth software for language enhancement and personality development of the students. The entire university is connected with high speed internet connection round the clock.

Hostels: There are nine Hostels (four for boys, four for Girls and one for working women) which can accommodate about 2150 students provide all the residential, recreational, sports, academic, finical, informational and stationary facilities within a designated mini campus under the surveillance of close circuit camera.

Sports Facilities: The Sports Complex has one Multipurpose Hall for Indoor games that house two Synthetic Badminton-Rex Courts, Table-Tennis hall, Gymnasium hall with thirteen station Multi-Gym, 06 station Multi-Gym for Women, Weight Lifting arena. There are two cemented Basketball courts with flood lights and cricket pitches, one ground each for Football, Hand ball, Cricket and Athletic events. Facilities also includes Two Volleyball courts and two synthetic Lawn Tennis Courts with flood lights in addition to one cemented Lawn tennis court with practice wall.

Central Instrumentation Laboratory: The Central Instrumentation Laboratory (CIL) is established for the students, research scholars and teachers of the university who are actively engaged in R&D activities in the emerging areas of Science, Technology & Engineering. The CIL is presently having high end instruments like High Performance Liquid Chromatograph (HPLC), Atomic Absorption Spectrophotometer (AAS),UV-VIS-NIR-Spectrophotometer. Nuclear Magnetic Resonance (NMR) Spectrometer (400 MHz) has been installed.

Training & Placement Cell arranges for Pre-Placement talks, written tests, group discussions, personal interviews for the student. The Training and Placement Cell liaisons with the potential industries and provides necessary guidance to the students. The Cell facilitates arranging on-campus placements of students in various industries, makes arrangements for students to participate in off-campus drives.

University Health Centre: Team of three MBBS and BDS doctors handles average one hundred twenty OPD every working day in this three bed minor O.T. on campus hospital with three fully equipped ambulances available twenty four hour. The hospital is fully equipped for complete blood examination and is well equipped with equipments like ECG machine, nebulizer, autoclave, foetal monitor, autoanalyser and hematologyanaylser RVG, Apex locator, scaler etc.

SC/ST Cell & Scholarship: The Cell provides financial support to the reserved categories enshrined by the Centre and State government from time to time The following type of scholarships are granted to the SC and BC candidates under the Schemes of Govt. of India/State Govt. (i) Post Matric Scholarship to SC/ST students, Govt. of India Scheme. (ii) Stipend to B.C. students under State Harijan Welfare Scheme. (iii) Financial help from District Welfare Office for purchase of books etc.

Human Resource Development Centre: The UGC-Human Resource Development Centre (HRDC) [erstwhile Academic Staff College] of the University has been established during the 11th Plan (2009) in accordance with the National Policy of Education (NPE-1986) with a vision 'To Facilitate Human Development and Professional Excellence in Academics' .The National Assessment and Accreditation Council (NAAC) has reviewed this centre i.e. the erstwhile ASC of the University as front runner Performer with Highest Score from amongst the 66 such institutions (erstwhile Academic Staff Colleges) in the country.

Students' Welfare: The office of the Dean Students Welfare supports the students who otherwise are not covered under reservation. The Dean's office also extent subsidies on educational tours and daily commuting by the students. Some important facilities provided by this office are as follows: Students Safety Insurance Policy for the regular students of UTD's. Earn While You Learn" Scheme.

Directorate of Youth Welfare: The Directorate of Youth Welfare provides a platform to students to explore their talent at utmost level and foster the feelings of Nationalism, enrich Indian Culture and Art. The Directorate of Youth Welfare infuses and instil in them the confidence to express the talent which otherwise might remain hibernated. The organization of 'University Youth Festival' is a regular feature, in addition to cultural and literary activities.

Women's Cell: University Women's Cell has been established to develop and maintain an environment of women safety, dignity and equality on the campus. The university is committed to develop a conducive atmosphere on the campus, where women can work safely with dignity and equal opportunities and takes all the steps required in this direction. The cell works in accordance with the Constitutional and Supreme Court mandate of prohibition of gender discrimination and sexual harassment at work place.

National Service Scheme: The NSS units of Guru Jambheshwar University of Science &Technology are involved in inculcating the feelings of empathy and self-extension among students. To uphold and promote the values of communal harmony, patriotism, and national integration among students and community members through NSS activities is one of the basic objectives of the units. Seven days camps, National integration camps are the integral part of the NSS in the University. The NSS units have been involved in awareness programmes related to prevention of HIV/AIDS, female feticide and drug addiction etc. NSS volunteers are also involved in the activities related to literacy, plantation, cleanliness and blood donation, etc.

National Cadet Corps: The NCC has its genesis in the "university Corps", which was created under the Indian Defence Act, 1917 with the objective to train students for the Army. In 1920, when the Indian Territorial Act was passed, the "University Corps" was replaced by the "University Training Corps" 9 UTC). In 1942, a committee was set up under HN Kunzru for establishment of a nation-wide youth organization covering both schools and colleges. Consequently, the "National Cadet Corps" (NCC) came into existence on 15th July 1948 under National Cadet Corps Act (No: XXXI of 1948) enacted by the Parliament. The Girls Division was introduced in 1949. To start with, only army NCC units were there. Air Force and Naval NCC units followed soon in 1950 and 1952 respectively. This voluntary youth organization, which was started with 20,000 cadets, is today probably the largest uniformed youth organization in the world with 13 lakh cadets (boys and girls). The NCC Headquarters is located in New Delhi. Control and co-ordination are exercised through 17 State Directorates.

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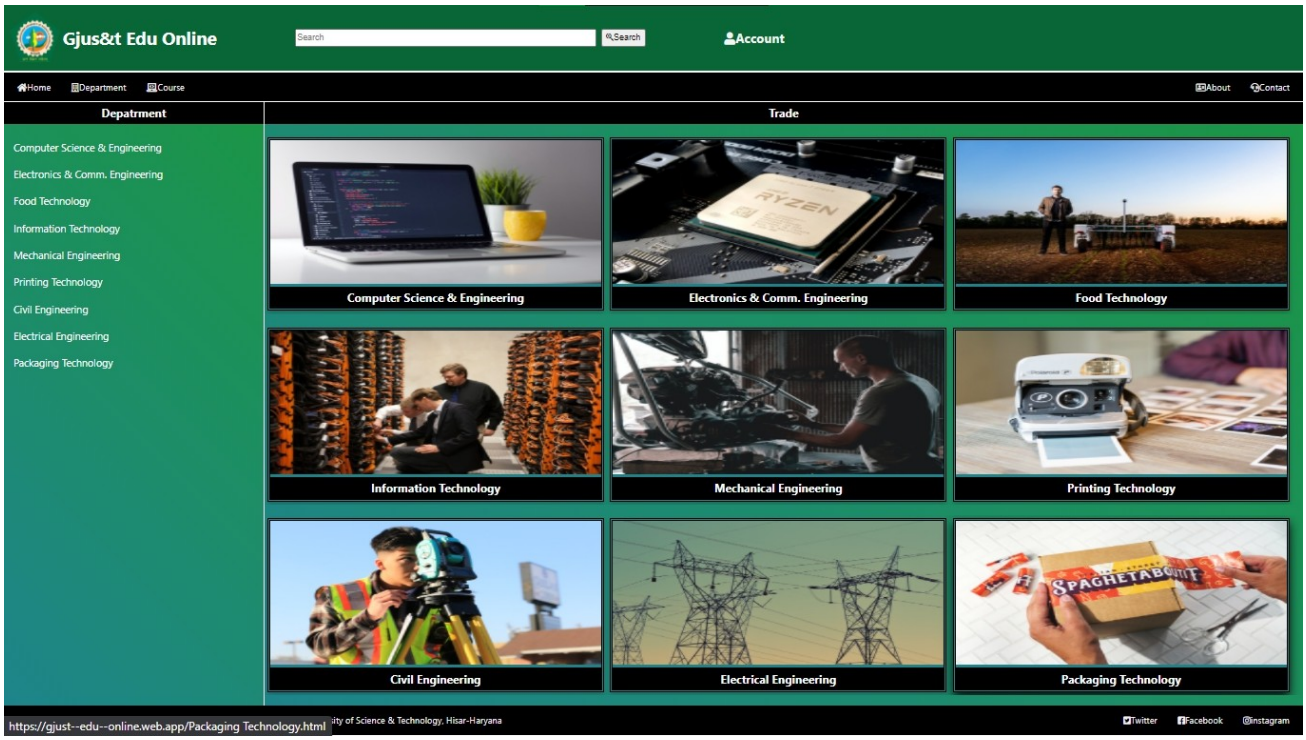
7.6

Department



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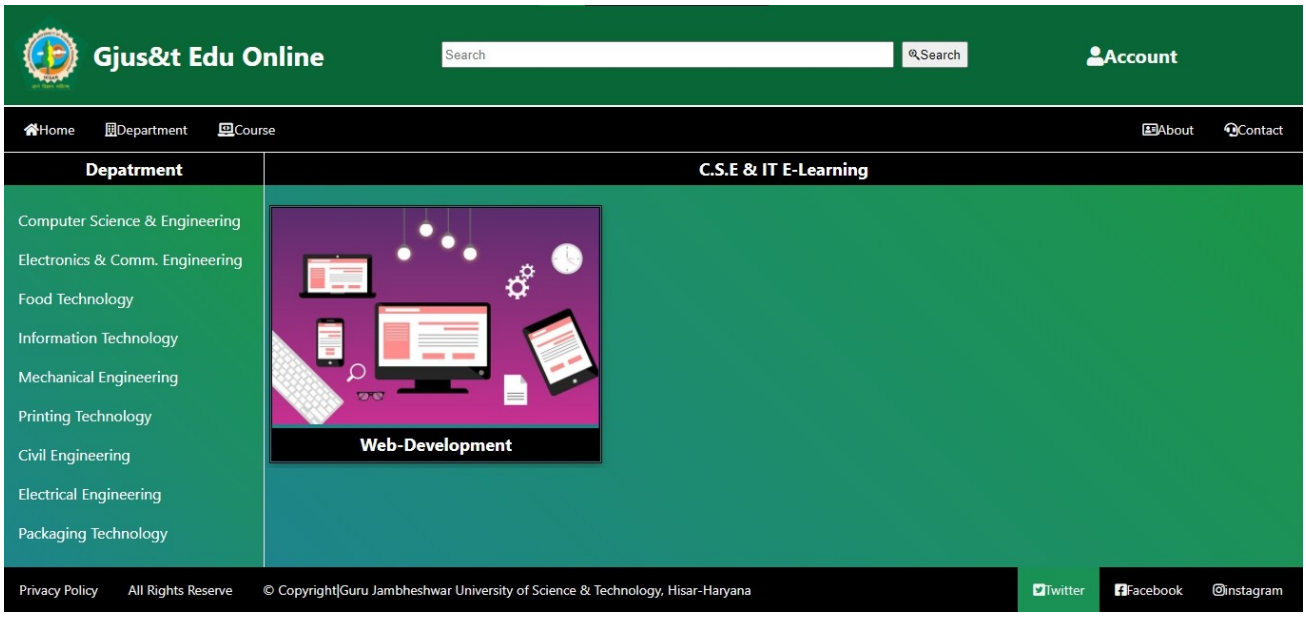

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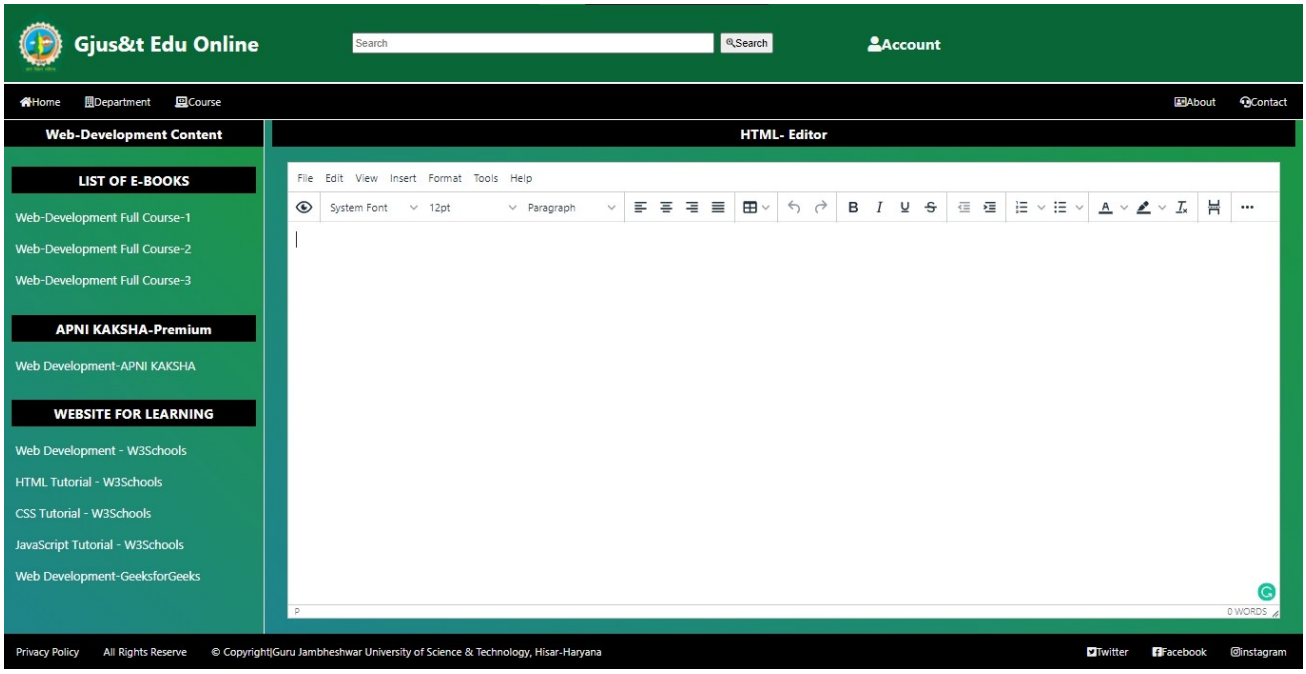
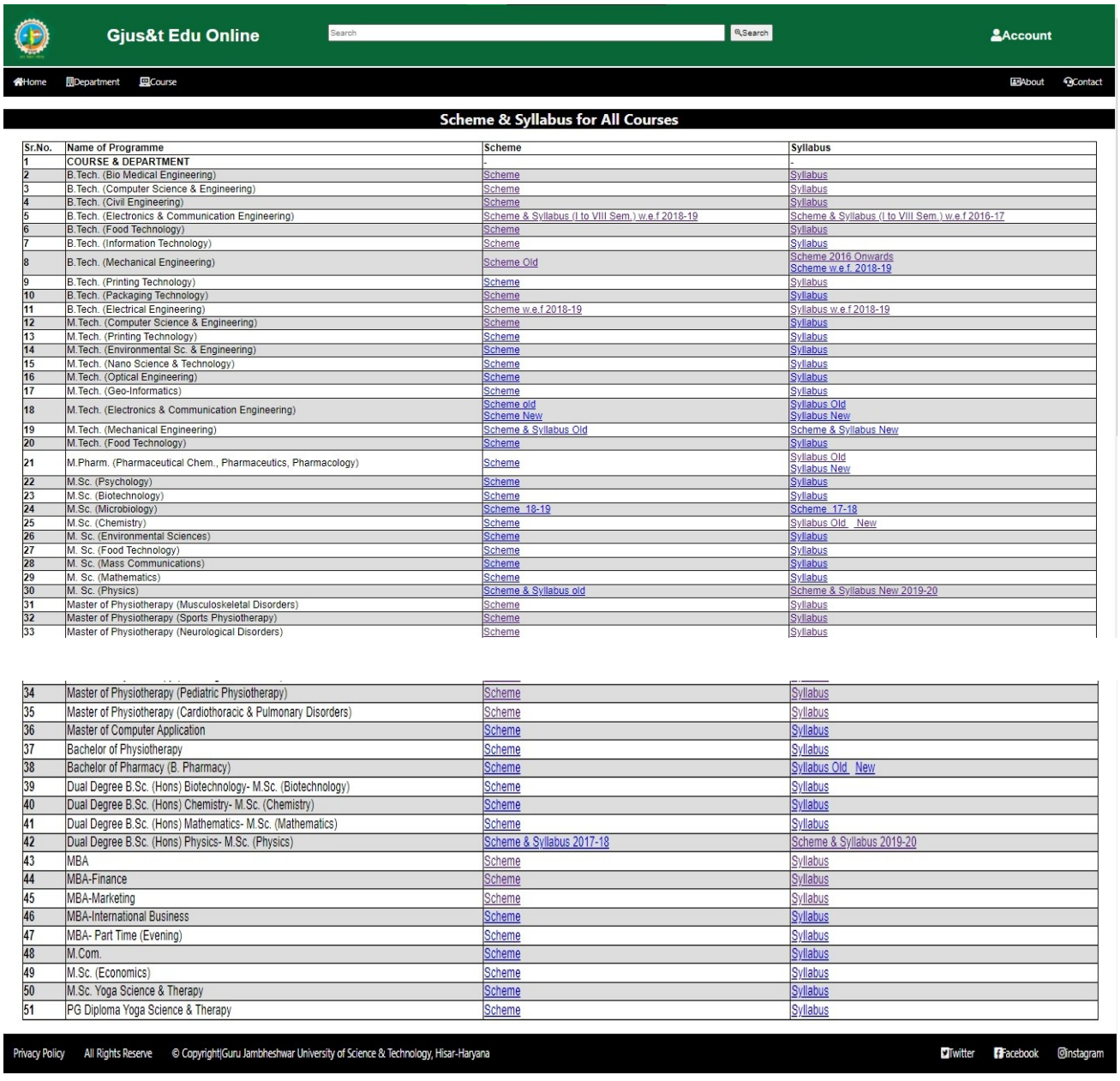
Web-DevelopmentCourse



SCHEME & SYLLABS FOR ALL COURSES



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Scheme & Syllabus for All Courses

Sr.No.	Name of Programme	Scheme	Syllabus
1	COURSE & DEPARTMENT	-	-
2	B.Tech. (Bio Medical Engineering)	Scheme	Syllabus
3	B.Tech. (Computer Science & Engineering)	Scheme	Syllabus
4	B.Tech. (Civil Engineering)	Scheme	Syllabus
5	B.Tech. (Electronics & Communication Engineering)	Scheme & Syllabus (I to VIII Sem.) w.e.f 2018-19	Scheme & Syllabus (I to VIII Sem.) w.e.f 2016-17
6	B.Tech. (Food Technology)	Scheme	Syllabus
7	B.Tech. (Information Technology)	Scheme	Syllabus
8	B.Tech. (Mechanical Engineering)	Scheme Old	Scheme 2016 Onwards Scheme w.e.f. 2018-19
9	B.Tech. (Printing Technology)	Scheme	Syllabus
10	B.Tech. (Packaging Technology)	Scheme	Syllabus
11	B.Tech. (Electrical Engineering)	Scheme w.e.f 2018-19	Syllabus w.e.f 2018-19
12	M.Tech. (Computer Science & Engineering)	Scheme	Syllabus
13	M.Tech. (Printing Technology)	Scheme	Syllabus
14	M.Tech. (Environmental Sc. & Engineering)	Scheme	Syllabus
15	M.Tech. (Nano Science & Technology)	Scheme	Syllabus
16	M.Tech. (Optical Engineering)	Scheme	Syllabus
17	M.Tech. (Geo-Informatics)	Scheme	Syllabus
18	M.Tech. (Electronics & Communication Engineering)	Scheme old Scheme New	Syllabus Old Syllabus New
19	M.Tech. (Mechanical Engineering)	Scheme & Syllabus Old	Scheme & Syllabus New
20	M.Tech. (Food Technology)	Scheme	Syllabus
21	M.Pharm. (Pharmaceutical Chem., Pharmaceutics, Pharmacology)	Scheme	Syllabus Old Syllabus New
22	M.Sc. (Psychology)	Scheme	Syllabus
23	M.Sc. (Biotechnology)	Scheme	Syllabus
24	M.Sc. (Microbiology)	Scheme 18-19	Scheme 17-18
25	M.Sc. (Chemistry)	Scheme	Syllabus Old New
26	M. Sc. (Environmental Sciences)	Scheme	Syllabus
27	M. Sc. (Food Technology)	Scheme	Syllabus
28	M. Sc. (Mass Communications)	Scheme	Syllabus
29	M. Sc. (Mathematics)	Scheme	Syllabus
30	M. Sc. (Physics)	Scheme & Syllabus old	Scheme & Syllabus New 2019-20
31	Master of Physiotherapy (Musculoskeletal Disorders)	Scheme	Syllabus
32	Master of Physiotherapy (Sports Physiotherapy)	Scheme	Syllabus
33	Master of Physiotherapy (Neurological Disorders)	Scheme	Syllabus
34	Master of Physiotherapy (Pediatric Physiotherapy)	Scheme	Syllabus
35	Master of Physiotherapy (Cardiothoracic & Pulmonary Disorders)	Scheme	Syllabus
36	Master of Computer Application	Scheme	Syllabus
37	Bachelor of Physiotherapy	Scheme	Syllabus
38	Bachelor of Pharmacy (B. Pharmacy)	Scheme	Syllabus Old New
39	Dual Degree B.Sc. (Hons) Biotechnology- M.Sc. (Biotechnology)	Scheme	Syllabus
40	Dual Degree B.Sc. (Hons) Chemistry- M.Sc. (Chemistry)	Scheme	Syllabus
41	Dual Degree B.Sc. (Hons) Mathematics- M.Sc. (Mathematics)	Scheme	Syllabus
42	Dual Degree B.Sc. (Hons) Physics- M.Sc. (Physics)	Scheme & Syllabus 2017-18	Scheme & Syllabus 2019-20
43	MBA	Scheme	Syllabus
44	MBA-Finance	Scheme	Syllabus
45	MBA-Marketing	Scheme	Syllabus
46	MBA-International Business	Scheme	Syllabus
47	MBA- Part Time (Evening)	Scheme	Syllabus
48	M.Com.	Scheme	Syllabus
49	M.Sc. (Economics)	Scheme	Syllabus
50	M.Sc. Yoga Science & Therapy	Scheme	Syllabus
51	PG Diploma Yoga Science & Therapy	Scheme	Syllabus

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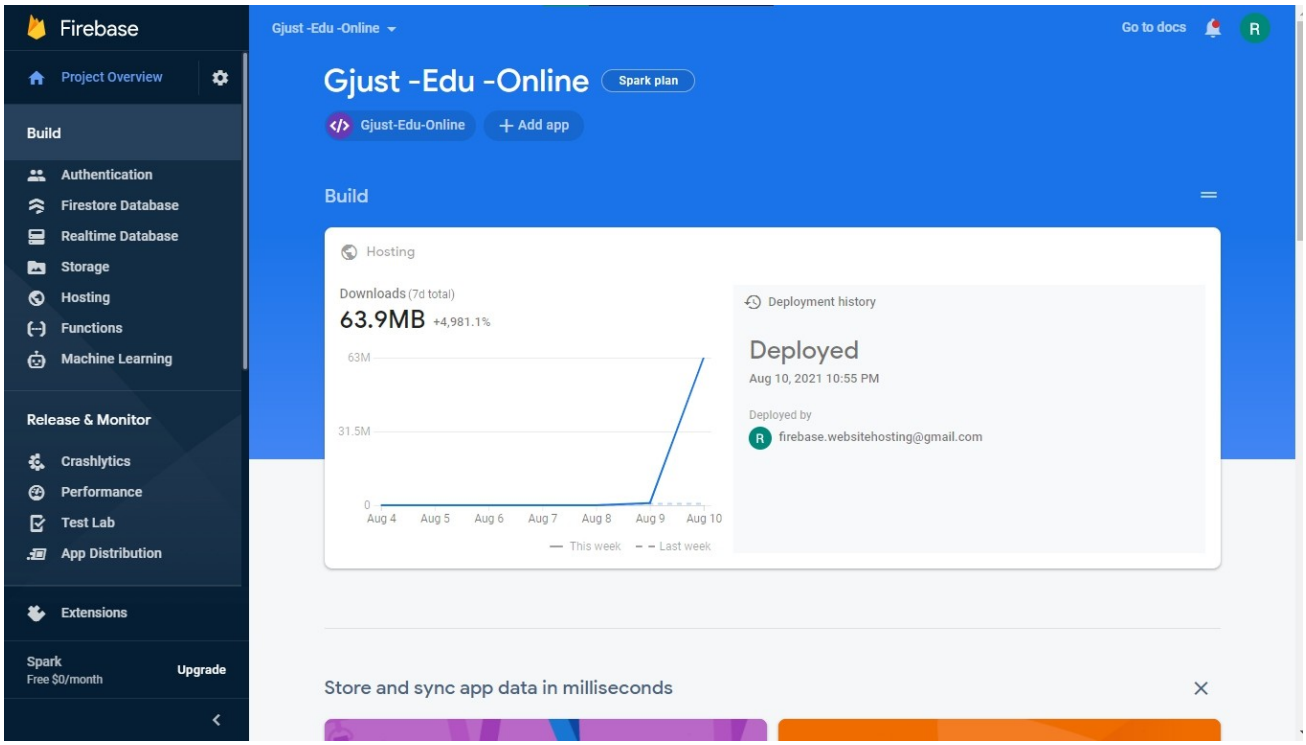
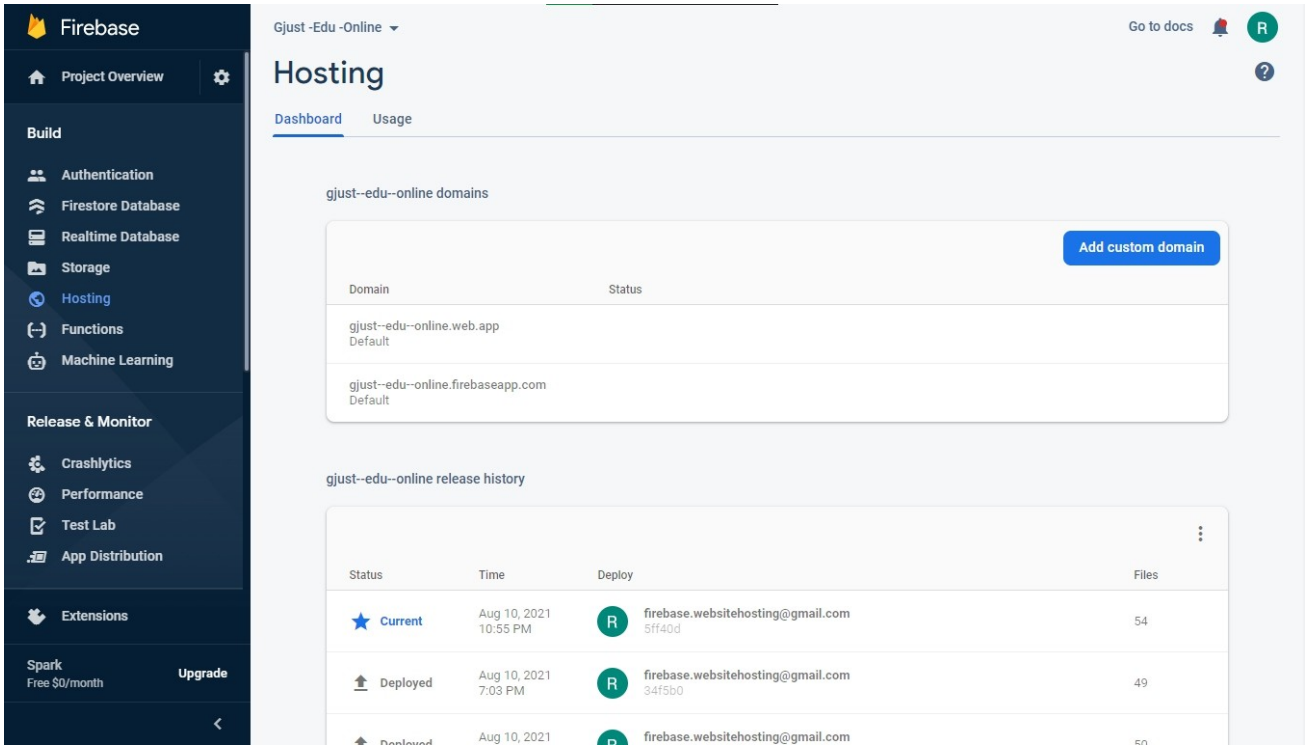
Hosting Through Firebase





Chapter-8

Conclusion

In culmination, a comparative study between classroom study and online study was carried out. The study was done by examining the findingsrecorded in books and journals on the applicability online learning to students. The study revealed that, online learning has many benefits as compared to the conventional learning in the classroom environment.

Now a days online learning has several challenges such as lack of feedback from students and lack of the proper technology to effectively conduct online learning, these limitations can be overcome by upgrading the E- Leaning systems and the use of online discussion forums and new web based software's.

In conclusion, online learning is beneficial to the students, tutors and the institution offering these courses. I would therefore recommend that online learning be implemented on all learning institutions and research on how to improve this learning process should be carried out.

Chapter-9

FUTURE SCOPE

E-learning is not just a change of technology. It is part of a redefinition of how we as a species transmit knowledge, skills, and values to younger generations of workers and students. This book makes a few predictions of how e-learning and the functions it serves will continue to develop. Learners will have access to millions or billions of knowledge modules. Some will be Web pages with simple text and graphics. Others may include multimedia simulations. In many fields, e-learning has become the default way to conduct training or to provide education. There are four secrets of e- learning. The first secret is to teach what learners need to learn in the way they most naturally learn. The second secret is to define clear learning objectives. The third secret builds on the first two. It is to focus on the right objectives. The final secret is in the power of testing.

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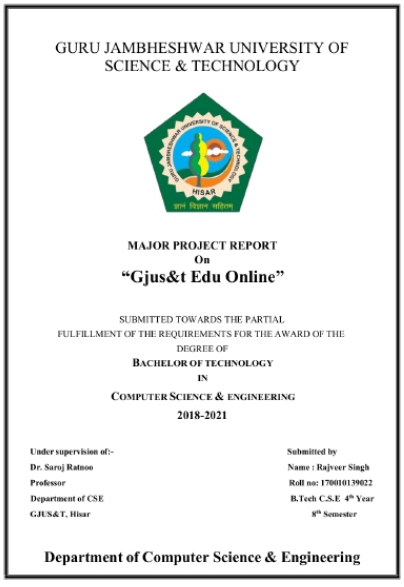

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BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE & ENGINEERING
2018-2021

Under supervision of:-
Dr. Saroj Ratnoo
Professor
Department of CSE
GJUS&T, Hisar

Submitted by
Name : Rajveer Singh
Roll no: 170010139022
B.Tech C.S.E 4th Year
8th Semester

Department of Computer Science & Engineering

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