ONE CREDIT COURSE REGISTRATION & COURSE EXEMPTION SYSTEM

PROJECT REPORT

Submitted by

HARINI H(7376212AL115)

SUSHMITHA V(7376211CS308)

NAVITHA P K(7376211CS227)

NIRANJAN S(7376221CS518)

In partial fulfilment for the award of the degree of

BACHELOR OF TECHNOLOGY

in

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

BANNARI AMMAN INSTITUTE OF TECHNOLOGY
(An Autonomous Institution Affiliated to Anna University, Chennai)
SATHYAMANGALAM-638401

ANNA UNIVERSITY: CHENNAI 600 025

APRIL 2025

BONAFIDE CERTIFICATE

Certified that this project report **"ONE CREDIT COURSE REGISTRATION & COURSE EXEMPTION SYSTEM"** is the Bonafide work of **" HARINI H (7376212AL115), SUSHMITHA V (7376211CS308), NAVITHA P K (7376211CS227), NIRANJAN S (7376221CS518)"**who carried out the project work under my supervision.

Dr KODIESWARI A

HEAD OF THE DEPARTMENT

Department Of Artificial Intelligence

And Machine Learning

Bannari Amman Institute of Technology

Ms. GAYATHRIDEVI M

ASSISTANT PROFESSOR

Department of Artificial Intelligence

And Machine Learning

Bannari Amman Institute of Technology

Submitted for Project Viva Voice examination held on……

Examiner I **Examiner II**

DECLARATION

We affirm that the project work titled **"ONE CREDIT COURSE REGISTRATION & COURSE EXEMPTION SYSTEM"** being submitted in partial fulfillment for the award of the degree of **BACHELOR OF TECHNOLOGY IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING** is the record of original work done by us under the guidance of **Ms. GAYATHRIDEVI M**, Assistant Professor**,** Department of Artificial Intelligence and Machine Learning. It has not formed a part of any other project work(s) submitted for the award of any degree or diploma, either in this or any other University.

HARINI H	**SUSHMITHAV**	**NAVITHA P K**	**NIRANJAN S**
(212AL115)	**(211CS308)**	**(211CS227)**	**(221CS518)**

I certify that the declaration made above by the candidates is true.

Ms. GAYATHRIDEVI M

ACKNOWLEDGEMENT

We would like to enunciate heartfelt thanks to our esteemed Chairman **Dr.S.V. Balasubramaniam**, and the respected Director **Dr.M.P. Vijaykumar**, for providing excellent facilities and support during the course of study in this institute.

We are grateful to **Dr KODIESWARI A , Head of Department , Department of Artificial Intelligence and Machine Learning** for his / her valuable suggestions to carry out the project work successfully.

We wish to express our sincere thanks to **Ms.GAYATHRIDEVI M , Assistant Professor, Department of Artificial Intelligence and Machine Learning** for his / her constructive ideas, inspirations, encouragement, excellent guidance and much needed technical support extended to complete our project work.

We would like to thank our friends, faculty and non-teaching staff who have directly and indirectly contributed to the success of this project.

HARINI H(212AL115)

SUSHMITHA V(211CS308)

NAVITHA P K(211CS227)

NIRANJAN S(221CS518)

ABSTRACT

The existing framework for one-credit course registration and elective course exemption Bannari Amman Institute of Technology relies heavily on manual processes, resulting in significant inefficiencies and potential for errors. Currently, students use Google Forms to sign up for supplementary courses, creating a cumbersome and unscalable system. Course schedules are meticulously mapped by hand, and attendance and assessment records are kept on paper, which delays feedback and increases the likelihood of errors. Additionally, the elective course exemption procedure is opaque and time-consuming, requiring physical form submissions and multiple approval authorities. The bottleneck caused by this manual approach hinders the effective management of academic resources and reduces student satisfaction. This project addresses these issues by creating a comprehensive, web-based system to automate and simplify the entire registration and exemption process for one-credit courses. The primary aim is to mitigate the inefficiencies and inaccuracies inherent in the current manual system through the implementation of a robust and user-friendly digital platform. The methodology employed centers on the development of a full-stack application using the MERN (MongoDB, Express.js, React.js, Node.js) architecture. A scalable and adaptable system that can handle students, trainers, administrators, and approval authorities (HOD, Autonomy Affairs, Head Academics, Student Affairs/Achievements) are made possible by this strategy.

Keywords: One-Credit Course, Course Exemption, MERN Stack, Web Application, Digitalization, Automation, Student Management, Online Registration, Attendance, Management, Assessment, Workflow, Recommendation Engine, Academic Administration are the Key Words for this topic.

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