

SAPTHAGIRI COLLEGE OF ENGINEERING

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Department of Information Science & Engineering

2nd year

MINI PROJECT

BATCH	USN	TEAM MEMBERS NAME	PROJECT TITLE
A1	1SG21IS029 1SG21IS051 1SG21IS039 1SG21IS030 1SG21IS035	Divya.G.S, M.P.Prateeksha, Harshitha.U, Gagana.H.N, Harshavardhan.K.A	Page Replacement
A2	1SG21IS071 1SG21IS073 1SG21IS079 1SG21IS097	Rakshitha J K, Rashmi G V, Sahana B M, Sowmya K G	Ai chat bot
A3	1SG21IS067 1SG21IS070 1SG21IS080 1SG21IS121 1SG22IS402 1SG22IS401	Rakesh R, Raksha R, Sahana HV, Meghana GS, Ananya DR, Bhavana V	Pre-emptive scheduling algorithm
A4	1SG21IS034 1SG21IS054 1SG21IS048 1SG21IS002 1SG21IS056 1SG21IS041	Harsh Raj, Mimansa, Lavanya R, Adarsh Singh, Neeraj KS, Himanshu Kumar	Implementation of round robin algorithm
A5	1SG21IS012, 1SG21IS017, 1SG21IS027, 1SG21IS044	Balaji V, C H Gourav, Dhruv K M, Karthik A N	First Come First Serve
A6	1SG21IS019 1SG21IS036, 1SG21IS018, 1SG21IS009, 1SG21IS001	Chaithanya T P, Harshitha B R, Chaitanya B Akki, Anjali E, Abhilash G M	Page replacement algorithms in Operating System
A7	1SG22IS405 1SG22IS400, 1SG22IS403, 1SG22IS401	Bindhu m , Aarcha a, Bharath , akash	Project approval system
A8	1SG21IS010, 1SG21IS038, 1SG21IS043, 1SG21IS050	Apeksha Krishna Naik, Harshitha R S, K sinchana, likhitha D R	Banker's algorithm

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A9	1SG21IS089 1SG21IS090 1SG21IS101 1SG21IS102 1SG21IS107 1SG21IS115	Shreya S Chowdary Soniya N R Suraj S Nair T Noor Daniya Vamshidhar Kumbar Vinay S	IMPLEMENTATION OF THE BANKER'S ALGORITHM FOR AVOIDING DEADLOCKS - SAFETY STATE
A10	1SG21IS053, 1SG21IS033, 1SG21IS016, 1SG21IS045, 1SG21IS063	MALLINATH, HT SUMANTH ACHAR, C DARSHAN, KARTHIK L, PRACHEEN MG	DINING PHILOSOPHER'S PROBLEM USING JAVA
A11	1SG21IS111 , 1SG21IS119 1SG21IS093 1SG21IS083	Varun Y G Vivek vasista K Y Md asib Sanjay G	Kernal communication
A12	1SG21IS075, 1SG21IS082, 1SG21IS099, 1SG21IS105	Ruchitha S ,Sanjana B S ,Suchetha V, Thanvi N Gowda	ATM MACHINE SYSTEM
A13	1SG21IS042, 1SG21IS020, 1SG21IS025	Jathin K, Chandan M G, Dhanush JR	Chat room using sockets and threads in Java
A14	1SG21IS066	R k Rahul	JUNK FILE ORGANISING
A15	1SG21IS015	BR GNANESHWAR SHARMA BHANUTEJA	Swap space management using python
A16	1SG21IS074, 1SG21IS096, 1SG21IS103, 1SG21IS104	Rustitha N Souharda S Tejas R Thanushree R	FCFS algorithm using OS
A17	1SG21IS069, 1SG21IS072, 1SG21IS077	Raksha.k , Rakshitha.K , S.Monica	Weather Report
A18	1SG21IS058 1SG21IS060 1SG21IS003	Nidhi S. Nithya S. Amulya R	CPU Scheduling using python
A19	1SG22IS407 1SG21IS409 1SG21IS406 1SG21IS408 1SG21IS409	Manjunath k t , vasu c, jeevan. B. M, shreyas. N. M, venugopal. S	Memory Allocation System



Principal

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A20	1SG21IS024, 1SG21IS047, 1SG21IS049, 1SG21IS052, 1SG21IS055	Deepak Kumar S, Lakshmi NM, Lekhana DN, Mahesh R, N Nagasree	Cpu scheduling program
A21	1SG21IS112, 1SG21IS098, 1SG21IS120	Vijayalakshmi B , Spoorthi KP, Yashas D	Library Management System
A22	1SG21IS087, 1SG21IS091, 1SG21IS100, 1SG21IS086	SHARATH RAM PRAKASH, SHRI TEJA SHASTRI, SUHAS MR, S	FCFS ALGORITHM
A23	1SG21IS014 1SG21IS037 1SG21IS061 1SG21IS064	Bhoomika T Shenoy ,Harshitha R, Pooja Kerur, Pranav PM	VIRTUAL MEMORY MANAGEMENT FOR PAGE REPLACEMENT USING GUI
A24	1SG21IS008, 1SG21IS022, 1SG21IS028, 1SG21IS065, 1SG21IS026	ANIRUDH ASHRIT, CHARITH R, DHUSHYANTH GOWDA J ,PREETHAM M, DHEERAJ D.	FCFS ALGORITHM USING OPERATING SYSTEM.
A25	1SG21IS004, 1SG21IS005, 1SG21IS011, 1SG21IS031, 1SG21IS062	Amulya S, Ananya HG, Archana NJ, Geethanjali Pujar, Pooja P	Process Scheduler Simulator
A26	1SG21IS021 , 1SG21IS032 , 1SG21IS040	Chandanashree V , Greeshma R , Hemalatha C P	Safety Banker's algorithm for deadlock prevention
A27	1SG21IS006, 1SG21IS007	Ananya Vanditha.S ,Ananya.B C	File management system
A28	1SG21IS113 , 1SG21IS078 , 1SG21IS084, 1SG21IS092 , 1SG21IS068	Vikas D Raj, Sachin, Rohan, Sathwik S, Meghnath, , Rakesh Hughar	Investment calculator
A29	1SG21IS046, 1SG21IS057, 1SG21IS040, 1SG21IS021, 1SG21IS032	Greeshma, Netravathi c, Hemalatha, Keerthana s, Chandana	Banking algorithm for deadlock prevention



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A30	1SG21IS110, 1SG21IS106, 1SG21IS090, 1SG21IS081, 1SG21IS094	Varun Rana, Vaibhav Bansal, Shreya S M, Sanika S, Sneha S Ganachari	Image Generation
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Coordinator



Principal

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HOD-ISE

Dr. H.R. Ranganatna
Prof. & H.O.D

Dept. of Information Science & Engg
Sapthagiri College of Engineering
14/5 Chikkasandra, Hesaraghatta Main Road
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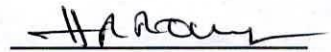
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CERTIFICATE

This is to certify that the Mini-Project work entitled "PAGE REPLACEMENT" is a bonafide work carried out by **DIVYA G S(1SG21IS029), M P PRATEEKSHA(1SG21IS051), HARSHITHA U(1SG21IS039), GAGANA H N(1SG21IS030), HARSHAVARDHAN K A(1SG21IS035)** in partial fulfillment for the award of the degree of **Bachelor of Engineering in Information Science and Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Project has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.



Signature of the Guide
Prof. Ambika S
 Assistant Professor



Signature of the HOD
Dr. H R Ranganatha
 Head of Dept, ISE



Principal
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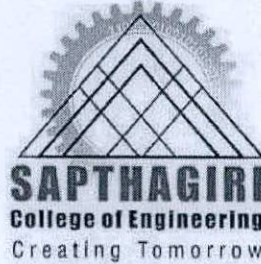


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This is to certify Mini-Project work entitled "AI CHATBOT" using Python carried out by **Rakshitha JK(1SG21IS071), Rashmi GV(1SG21IS073), Sahana BM(1SG21IS079), Sowmya KG(1SG21IS097)** bonafide student of **4th** semester ,department of **Information Science & Engineering** ,**Sapthagiri College of Engineering**, in partial fulfillment for the award of **Bachelor of Engineering in Information Science and Engineering** of **Visvesvaraya Technological University, Belagavi** during the academic year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The Project report has been approved as it satisfies the academic requirements in respect of **Mini Project work** prescribed for the said degree.

Manasa

Signature of the Guide

Prof. Manasa PM

Assistant Professor

H R Ranganatha

Signature of the HOD



Dr. H R Ranganatha

Head of Dept, ISE

B

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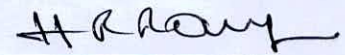
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CERTIFICATE

This is to certify that the Mini-Project work entitled "PRE-EMPTIVE SCHEDULING ALGORITHM" is a bonafide work carried out by RAKESH R(1SG21IS067), RAKSHA R(1SG21IS070), SAHANA H V (1SG21IS080), MEGHANA G S(1SG21IS121), ANANYA D R(1SG22IS402), BHAVANA V (1SG22IS404) in partial fulfillment for the award of the degree of **Bachelor of Engineering in Information Science and Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Project has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.



Signature of the Guide
Prof. Priyanka M R
 Assistant Professor

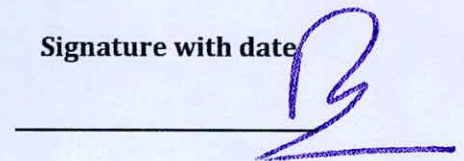


Signature of the HOD
Dr. H R Ranganatha
 Head of Dept, ISE

Name of the Examiners

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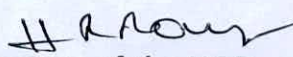
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This is to certify that the Mini-Project work entitled **IMPLEMENTATION OF ROUND ROBIN ALGORITHM** is a bonafide work carried out by **Harsh Raj (1SG21IS034), Mimansa (1SG21IS0054), Adarsh Singh (1SG21IS002), Lavanya R(1SG21IS048), Himanshu Kumar (1SG21IS041), Neeraj K.S(1SG21IS056)** in partial fulfillment for the award of the degree of **Bachelor of Engineering in Information Science and Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Project has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.


Signature of the Guide

Chaitanya V

Assistant Professor


Signature of the HOD

Dr. H R Ranganatha

Head of Dept, ISE

Name of the Examiners

Signature with date


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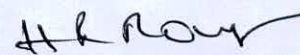
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This is to certify that the Mini-Project work entitled **PAGE REPLACEMENT** is a bona fide work carried out by **Abhilash G M (1SG21IS001), Anjali E (1SG21IS009), Chaitanya B Akki (1SG21IS018), Chaithanya TP(1SG21IS019), Harshitha BR(1SG21IS036)** in partial fulfillment for the award of the degree of **Bachelor of Engineering in Information Science and Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Project has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.



Signature of the Guide
Dr. H R Ranganatha
 Head of Dept, IS



Signature of the HOD
Dr. H R Ranganatha
 Head of Dept, ISE

Name of the Examiners

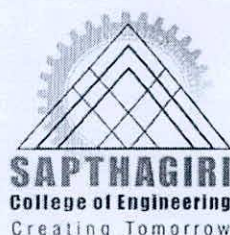
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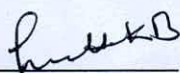
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This is to certify that the Mini-Project work entitled "**PROJECT APPROVAL SYSTEM**" is a bonafide work carried out by **AARCHA A(1SG22IS400), AKASH K(1SG22IS401), BHARATH GOWDA B(1SG22IS403), BINDHU M(1SG22IS405)** in partial fulfillment for the award of the degree of **Bachelor of Engineering in Information Science and Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Project has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.



Signature of the Guide
Prof. Swetha.K.B
Assistant Professor

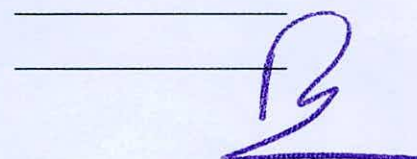


Signature of the HOD
Dr. H R Ranganatha
Head of Dept, ISE

Name of the Examiners

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2. _____

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This is to certify that the Mini-Project work entitled "**ATM Machine**" is a bonafide work carried out by **Apeksha Krishna Naik(1SG21IS010), Harshitha R S(1SG21IS038), K Sinchana(1SG21IS043), Likhitha D R(1SG21IS050)**, in partial fulfillment for the award of the degree of **Bachelor of Engineering in Information Science and Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Project has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

Signature of the Guide
Ramya R
Assistant Professor

Signature of the HOD
Dr. H R Ranganatha
Head of Dept, ISE

Name of the Examiners

Signature with date

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This is to Certify that the Mini-Project work entitled **IMPLEMENTATION OF THE BANKER'S ALGORITHM FOR AVOIDING DEADLOCKS-SAFTEY STATE** carried out by **Shreya S Chowdary(1SG21IS089), Soniya N R(1SG21IS095), Suraj S Nair(1SG21IS101) T Noor Daniya (1SG21IS102), Vamshidhar Kumbar (1SG21IS107), Vinay S (1SG21IS115)** students of 4th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering in Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Signature of the Guide
Dr. H R Ranganatha
Head of Dept, ISE

Signature of the HOD
Dr. H R Ranganatha
Head of Dept, ISE

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This is to Certify that the Mini-Project work entitled Kernel communication carried out by Vivek Vasista KY(1SG21IS119),Sanjay G(1SG21IS083),SK Md.Asib(1SG21IS093),Varun Y G(1SG21IS111) department of Information Science & Engineering carried out at our college Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of Bachelor of Engineering in Information Science & Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Mini project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Signature of the Guide
Prof.Nandini Gowda P

Signature of the HOD
Dr. H .R Ranganatha
(Prof & HOD)

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This is to Certify that the Mini-Project work entitled **ATM MACHINE SYSTEM** carried out by Ruchitha S (1SG21IS075), Sanjana BS (1SG21IS082), Sharana Gowda MC(1SG21IS085), Shivarth NS (1SG21IS088), Suchetha V(1SG21IS099), Thanvi N Gowda(1SG21IS105) students of 4th semester, department of Information Science & Engineering carried out at our college Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of Bachelor of Engineering in Information Science & Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Signature of the Guide
Prof. Ramya R
Assistant Professor

Signature of the HOD
Dr. H R Ranganatha
HOD, I.S.E., S.C.E.

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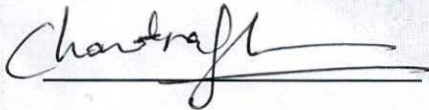
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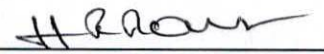
Department of Information Science & Engineering

CERTIFICATE

This is to Certify that the Mini-Project work entitled Junk file organising carried out by **R K Rahul(1SG21IS066)** students of 4th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in Information Science & Engineering of the **Visvesvaraya Technological University**, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.



Signature of the Guide
Prof. Chandrashekar C M
 Assistant Professor



Signature of the HOD
Dr. H R Ranganatha
 Head of Dept, ISE



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CERTIFICATE

This is to Certify that the Mini-Project work entitled Swap space management problem using python carried out by Bhanu Teja K(1SG21IS013) of department of Information Science & Engineering carried out at our college Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of Bachelor of Engineering in Information Science & Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Mini project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.


Signature of the Guide
Prof.Suma J


Signature of the HOD
Dr.H .R Ranganatha
Head of Dept,ISE

SAPTHAGIRI COLLEGE OF ENGINEERING

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Department of Information Science & Engineering

CERTIFICATE

This is to Certify that the Mini-Project work entitled **FCFS** carried out by **Rustitha N (1SG21IS076), Souharda S(1SG21IS096), Tejas R(1SG21IS103), Thanushree (1SG21IS104)** students of 4th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering in Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Signature of the Guide
Prof. Ambhika S
Assistant Professor

Signature of the HOD
Dr. H R Ranganatha
HOD, I.S.E., S.C.E.

External Viva

Name of the Examiners

Signature of the Examiners with date

1.



1.

2.

2.

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru – 560 057

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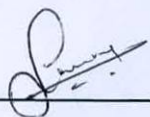
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Department of Information Science & Engineering

CERTIFICATE

This is to certify that the Mini-Project work entitled "**Rock paper scissor**" is a bonafide work carried out by **Raksha K(1SG21IS069)**, **Rakshitha K(1SG21IS072)**, **S Monica(1SG21IS077)** in partial fulfillment for the award of the degree of **Bachelor of Engineering in Information Science and Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Project has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.



Signature of the Guide
Soumya Somanath
Assistant Professor





Signature of the HOD
Dr. H R Ranganath
Head of Dept, ISE



Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesarghatta Main Road
Bengaluru - 560 057

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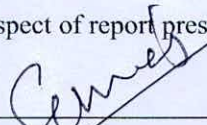
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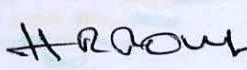
Department of Information Science & Engineering

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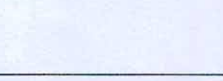
This is to certified that the Mini-Project entitled entitled "CPU Scheduling Simulation in Python" carried out by Amulya R (1SG21IS003), Nidhi S (1SG21IS058), Nithya S (1SG21IS060) bonafide students of 4th semester, Department of Information Science & Engineering carried out at our college Sapthagiri College of Engineering, Bengaluru in partial fulfillment of the award of Bachelor of Engineering in Information Science & Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Final Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of report prescribed for the said Degree.



Signature of the Mentor
 Prof. Suma C
 Assistant Professor



Signature of the HOD
 Dr. H.R. Ranganatha
 Professor & Head



Signature of the Principal
 Dr. H Ramakrishna
 Principal



 Principal
Sapthagiri College of Engineering
 14/5, Chikkasandra, Hesarghatta Main Road
 Bengaluru - 560 057

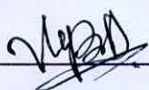
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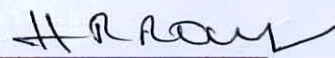
Department of Information Science & Engineering

CERTIFICATE

This is to certify that the Mini-Project work entitled "MEMORY ALLOCATION SIMULATOR" is a bonafide work carried out by Manjunath K T (1SG22IS407) in partial fulfillment for the award of the degree of **Bachelor of Engineering in Information Science and Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Project has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.



Signature of the Guide
Prof. Veena Dhavalgi
Assistant Professor





Signature of the HOD
Dr. HR Ranganatha
Head of Dept, ISE

Signature with date



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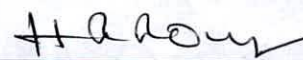
Department of Information Science & Engineering

CERTIFICATE

This is to certify that the Mini-Project work entitled "MEMORY ALLOCATION SIMULATOR" is a bonafide work carried out by VASU C(1SG22IS409) in partial fulfillment for the award of the degree of **Bachelor of Engineering in Information Science and Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Project has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.



Signature of the Guide
Prof. Veena Dhavalgi
Assistant Professor



Signature of the HOD
Dr. HR Ranganatha
Head of Dept, ISE



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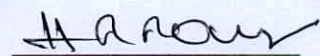
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CERTIFICATE

This is to certify that the Mini-Project work entitled "MEMORY ALLOCATION SIMULATOR" is a bonafide work carried out by JEEVAN B M (1SG22IS406) in partial fulfillment for the award of the degree of **Bachelor of Engineering in Information Science and Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Project has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

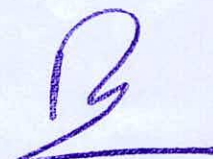


Signature of the Guide
Prof. Veena Dhavalgi
Assistant Professor



Signature of the HOD
Dr. HR Ranganatha
Head of Dept, ISE

Signature with date



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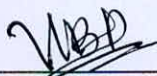
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CERTIFICATE

This is to certify that the Mini-Project work entitled "MEMORY ALLOCATION SIMULATOR" is a bonafide work carried out by Shreyas N M (1SG22IS408) in partial fulfillment for the award of the degree of **Bachelor of Engineering in Information Science and Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Project has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.



Signature of the Guide
Prof. Veena Dhavalgi
Assistant Professor





Signature of the HOD
Dr. HR Ranganatha
Head of Dept, ISE

Signature with date



Principal
Sapthagiri College of Engineering
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507 102

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CERTIFICATE

This is to certify that the Mini-Project work entitled "MEMORY ALLOCATION SIMULATOR" is a bonafide work carried out by VENU GOPAL S(1SG22IS410) in partial fulfillment for the award of the degree of **Bachelor of Engineering in Information Science and Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Project has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.



Signature of the Guide
Prof. Veena Dhavalgi
Assistant Professor



Signature of the HOD
Dr. HR Ranganatha
Head of Dept, ISE



Principal
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Bengaluru - 560 075

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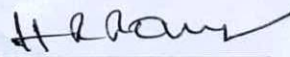
Department of Information Science & Engineering

CERTIFICATE

This is to certify that the Mini-Project work entitled "CPU SCHEDULING PROGRAM" is a bonafide work carried out by DEEPAK KUMAR S(1SG21IS024), LAKSHMI N M (1SG21IS047), N NAGASREE (1SG21IS055), LEKHANA DN (1SG21IS049), MAHESH R (1SG21IS052) in partial fulfillment for the award of the degree of Bachelor of Engineering in Information Science and Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Project has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.



Signature of the Guide
Prof. Sowmya Somanath
Assistant Professor



Signature of the HOD
Dr. H R Ranganatha
Head of Dept, ISE



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DEPARTMENT OF ISE



Department of Information Science & Engineering

CERTIFICATE

This is to certify Mini-Project work entitled "**Library Management System**" using Java carried out by **Spoorthi K P (1SG21IS098)**, **Vijayalakshmi B (1SG21IS112)**, **Yashas D (1SG21IS120)** bonafide student of 3rd semester, department of **Information Science & Engineering**, Sapthagiri College of Engineering, in partial fulfillment for the award of **Bachelor of Engineering in Information Science and Engineering** of Visvesvaraya Technological University, Belagavi during the academic year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The Project report has been approved as it satisfies the academic requirements in respect of **Mini Project work** prescribed for the said degree.

Gayathri R

Signature of the Guide

Prof. Gayathri R

Assistant Professor

H R Ranganatha

Signature of the HOD

Dr. H R Ranganatha

Head of Dept, ISE

B

Principal

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A22
A22



Department of Information Science & Engineering

CERTIFICATE

This is to Certify that the Mini-Project work entitled **IMPLEMENTATION OF FCFS(FIRST COME FIRST SERVE) SHEDULING ALGORITHM** carried out by **SHARAN GOWDA K R(1SG21IS086), RS SHARATH RAM PRAKASH (1SG21IS087)), SHRI TEJA SHASTRI (1SG21IS091),SUHAS M R(1SG21IS100)**

students of 4th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering in Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of MiniProject work prescribed for the said Degree.

Roopa K T

H R Ranganatha

Signature of the Guide

Prof. Roopa K T Dr. H R Ranganatha

Assistant professor, ISE Head of Dept, ISE

Signature of the HOD

B

Principal
Sapthagiri College of Engineering
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Department of Information Science & Engineering

CERTIFICATE

This is to Certify that the Mini-Project work entitled **VIRTUAL MEMORY MANAGEMENT FOR PAGE REPLACEMENT USING GUI** carried out by Bhoomika T Shenoy (1SG21IS014), Harshitha R (1SG21IS037), Pooja Kerur (1SG21IS061), Pranav PM (1SG21IS064) students of 4th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering in Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 202223. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Signature of the Guide
Prof. Priyanka M R
Assistant Professor Dept, ISE

Signature of the HOD
Dr. H R Ranganatha
Head of Dept, ISE

Principal
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14/5, Chikkasandra, Hesaraghatta Main Road
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Department of Information Science & Engineering

CERTIFICATE



This is to certify that the Mini-Project work entitled "FCFS SCHEDULING ALGORITHM IN PYTHON" carried out by Anirudh Ashrit (ISG21IS008), Charith R (ISG21IS022), Dheeraj D (ISG21IS026), Dhushyanth Gowda J (ISG21IS028), Preetham M (ISG21IS065) bonafide students of 4th semester, Department of Information Science and Engineering carried out by Sapthagiri College of Engineering, Bengaluru in partial fulfillment for the award of the degree of Bachelor of Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Project has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

Signature of the Guide
Prof. Chandrashekhar C M
 Assistant Professor

Signature of the HOD
Dr. H R Ranganatha
 Head of Dept. IS

Principal
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Department of Information Science & Engineering

CERTIFICATE

This is to certify that the Mini-Project work entitled "**PROCESS SCHEDULER SIMULATOR**" is a bonafide work carried out by **AMULYA S (1SG21IS004)**, **ANANYA HG (1SG21IS005)**, **ARCHANA NJ (1SG21IS011)**, **GEETHANJALI PUJAR (1SG21IS031)**, **POOJA P(1SG21IS062)** in partial fulfillment for the award of the degree of **Bachelor of Engineering in Information Science and Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Mini Project has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the Bachelor of Engineering Degree.

Roopa KT

Signature of the Guide
Prof. Roopa K T
 Assistant Professor

H R Ranganatha

Signature of the HOD
Dr. H R Ranganatha
 Head of Dept. ISE

B
 Principal

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CERTIFICATE

This is to certify that the Mini-Project work entitled **SAFETY BANKERS ALGORITHM FOR DEADLOCK PREVENTION** is a bonafide work carried out by **Chandanashree V(1SG21IS021)**, **Greeshma R(1SG21IS032)**, **Hemalatha C P(1SG21IS040)** student of 4th semester, in partial fulfillment for the award of the degree of **Bachelor of Engineering in Information Science and Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Project has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

Gayathri R

Signature of the Guide
Prof. Gayathri R
 Assistant Professor

H R Ranganatha

Signature of the HOD
Dr. H R Ranganatha
 Head of Dept, ISE

B

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CERTIFICATE

This is to Certify that the Mini-Project work entitled **FILE MANAGEMENT SYSTEM** carried out by **Ananya Vanditha S(1SG21IS006), Ananya B C(1SG21IS007)** students of 4 semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering in Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Signature of the Guide
Prof. Ramya R
Assistant Professor

Signature of the HOD
Dr. H R Ranganatha
HOD, I.S.E., S.C.E.

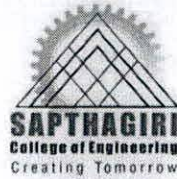
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SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)
(IAO9001-2015 and ISO14001-2015 certified Institute)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057



Department of Information Science & Engineering

CERTIFICATE

This is to Certify that the Mini-Project work entitled **INVESTMENT CALCULATOR** carried out by **Mr. Rakesh S Hugar(1SG18IS068)** , **Mr. Rohan R G(1SG19IS074)**, **Mr. Sachin R C(1SG21IS078)**, **Mr. Sathwik S(1SG21IS084)**, **Mr. SIDDAPPA GARI MEGHANATH(1SG21IS092)**, **Mr. Vikas D Raj(1SG21IS113)** students of 4th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfilment of the award of **Bachelor of Engineering in Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Signature of the Guide **Prof. Rajeshwari R**

Signature of the HOD **Dr. H R Ranganatha** Assistant Professor **HOD, I.S.E., S.C.E.**

External Viva

Name of the Examiners Signature of the Examiners with date

1. 1.

2. 2.

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

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Department of Information Science & Engineering

CERTIFICATE

This is to Certify that the Mini-Project work entitled **IMAGE GENERATION** carried out by **Mr. Varun Rana(1SG21IS110)**, **Mr. Vaibhav Bansal(1SG21IS106)**, **Ms. Sneha S Ganachari(1SG21IS94)**, **Ms. Shreya S M(1SG21IS090)** and **Ms. Sanika S(1SG21IS81)** students of 4th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering in Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Mini-Project work prescribed for the said Degree.

Signature of the Guide
Prof. Swetha K B
Assistant Professor

Signature of the HOD
Dr H R Ranganatha
HOD, I.S.E., S.C.E.

External Viva

Name of the Examiners

1.....

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Signature of the Examiners with date

1.

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Principal

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