



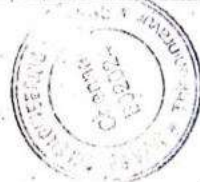
# Jaya Sakthi Engineering College

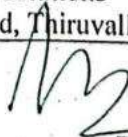
(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)  
St. Mary's Nagar, Thiruninravur, (Near Avadi), Chennai - 602 024  
www.sakthiec.edu.in email : info@sakthiec.edu.in

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### INTERNSHIP DETAILS-2021-2022

S.NO	REGISTER NO	NAME	NAME OF THE COMPANY	YEAR	FROM-TO (MM-YYYY)
1	112018104003	Karthikeyan.S	Shiash Info Solutions Private Limited, Sholinganallur	IV	Feb-2022 To April 2022
2	112018104004	Krishnamoorthy. S	Shiash Info Solutions Private Limited, Sholinganallur	IV	Feb-2022 To April 2022
3	112018104007	Omega. S	Shiash Info Solutions Private Limited, Sholinganallur	IV	Feb-2022 To April 2022
4	112018104008	Prabhakaran . D	Shiash Info Solutions Private Limited, Sholinganallur	IV	Feb-2022 To April 2022
5	112018104011	Sathyadass . S	Shiash Info Solutions Private Limited, Sholinganallur	IV	Feb-2022 To May 2022
6	112018104013	Sreejith .B	Shiash Info Solutions Private Limited, Sholinganallur	IV	Feb-2022 To April 2022
7	112020104001	Carlin Sheebha S	SSB Software solutions Private Limited, Thiruvallur	II	Jul-2022 To Aug 2022
8	112020104002	Edison Singaraj M	SSB Software solutions Private Limited, Thiruvallur	II	Jul-2022 To Aug 2022
9	112020104003	Gayathri M	SSB Software solutions Private Limited, Thiruvallur	II	Jul-2022 To Aug 2022
10	112020104004	Gokulakrishnan R	SSB Software solutions Private Limited, Thiruvallur	II	Jul-2022 To Aug 2022
11	112020104005	Harshitha Shree S	SSB Software solutions Private Limited, Thiruvallur	II	Jul-2022 To Aug 2022
12	112020104006	Kaviya K	SSB Software solutions Private Limited, Thiruvallur	II	Jul-2022 To Aug 2022
13	112020104007	Meenakshi R	SSB Software solutions Private Limited, Thiruvallur	II	Jul-2022 To Aug 2022
14	112020104008	Monisha M	SSB Software solutions Private Limited, Thiruvallur	II	Jul-2022 To Aug 2022
15	112020104009	Naveen V	SSB Software solutions Private Limited, Thiruvallur	II	Jul-2022 To Aug 2022
16	112020104011	Priyanka S	SSB Software solutions Private Limited, Thiruvallur	II	Jul-2022 To Aug 2022
17	112020104013	Srilekha S	SSB Software solutions Private Limited, Thiruvallur	II	Jul-2022 To Aug 2022
18	112020104014	Srinidhi S	SSB Software solutions Private Limited, Thiruvallur	II	Jul-2022 To Aug 2022



  
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19	112020104015	Swetha D	SSB Software solutions Private Limited, Thiruvallur	II	Jul-2022 To Aug 2022
20	112020104016	Umesh K	SSB Software solutions Private Limited, Thiruvallur	II	Jul-2022 To Aug 2022
21	112020104301	Dhanasekar. K	SSB Software solutions Private Limited, Thiruvallur	II	Jul-2022 To Aug 2022
22	112020104302	Nivistan. N	SSB Software solutions Private Limited, Thiruvallur	II	Jul-2022 To Aug 2022
23	112020104303	Parasuraman. D	SSB Software solutions Private Limited, Thiruvallur	II	Jul-2022 To Aug 2022
24	112020104304	Praveen. B.R	SSB Software solutions Private Limited, Thiruvallur	II	Jul-2022 To Aug 2022
25	112020104305	Viman Kumar. R	SSB Software solutions Private Limited, Thiruvallur	II	Jul-2022 To Aug 2022
26	112020104306	Yasika Devi. P	SSB Software solutions Private Limited, Thiruvallur	II	Jul-2022 To Aug 2022

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St. Mary's Nagar, Near Avadi,  
Thiruninravu, Chennai-602024



# JAYA SAKTHI ENGINEERING COLLEGE

(Affiliated to Anna University, Chennai and Approved by AICTE, New Delhi)  
St. Mary's Nagar, Thiruninravur - 602024, Thiruvallur Dist. Tamil Nadu  
Website: [www.sakthiec.edu.in](http://www.sakthiec.edu.in) Email: [biomedhod@sakthiec.edu.in](mailto:biomedhod@sakthiec.edu.in)



## DEPARTMENT OF BIOMEDICAL ENGINEERING


### INTERNSHIP DETAILS-2021-2022

S.NO	REGISTER NO	NAME	NAME OF THE COMPANY	PLACE	FROM-TO (MM-YYYY)
1	112020121001	P.AMERTHYASEN	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
2	112020121002	J.ANGEL CATHRINE RUPAVATHI	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
3	112020121003	V.P.ANNET	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
4	112020121004	V.ANURADHA	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
5	112020121005	C.K.DEEPAK KUMAR	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
6	112020121006	M.DEEPIKA	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
7	112020121007	M.DEEPIKA	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
8	112020121008	D.DEVAINA EAMIMAL	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
9	112020121009	S.DHANUSH	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
10	112020121010	S.DINESH	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
11	112020121011	S.HEMACHANDRAN	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
12	112020121012	M.HEMALATHA	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
13	112020121013	V.HEMAVATHY	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
14	112020121015	K.KAVIYA	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
15	112020121016	H.LOGESWARI	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
16	112020121017	S.NITHYASREE	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
17	112020121018	B.PAVITHRA	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
18	112020121019	D.PAVITHRA	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021



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19	112020121020	V.G.PRADEEP	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
20	112020121021	V.PURUSOTHAMAN	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
21	112020121022	M.RUBESH	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
22	112020121023	R.RUPESH	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
23	112020121024	M.SANGEETHA	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
24	112020121026	V.SARANYA	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
25	112020121027	S.SARASWATHI	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
26	112020121028	P.SHOBANA	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
27	112020121029	J.SOWMIYA	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
28	112020121030	R.SURYA	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
29	112020121031	R.YOGASREE	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021
30	112020121301	H.BALAJI	DEEPAM HOSPITALS	WEST TAMBARAM	OCTOBER 2021

  
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# JAYA SAKTHI ENGINEERING COLLEGE

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Website: [www.sakthlec.edu.in](http://www.sakthlec.edu.in) Email: [mechhod@sakthlec.edu.in](mailto:mechhod@sakthlec.edu.in)

## DEPARTMENT OF MECHANICAL ENGINEERING

### INTERNSHIP DETAILS-2021-2022

SL. NO.	REGISTER NO	NAME	NAME OF THE COMPANY	PLACE	FROM-TO (MM-YYYY)
1.	112020114001	Gopinath R	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
2.	112020114003	Prasanna Raj M	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
3.	112020114306	Ashair Y	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
4.	112020114308	Balaji R	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
5.	112020114310	Bhuvaneshwaran V	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
6.	112020114311	Deepak K	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
7.	112020114312	Dhilavar M	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
8.	112020114313	Digneshwaran D	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
9.	112020114314	Dillibabu P	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
10.	112020114315	Haribabu O G	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
11.	112020114316	Hariprasath S	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
12.	112020114318	John Joseph J	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022

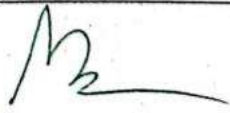


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JAYA SAKTHI ENGINEERING COLLEGE  
St. Mary's Nagar, Near Avadi,  
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SL. NO.	REGISTER NO	NAME	NAME OF THE COMPANY	PLACE	FROM-TO (MM-YYYY)
13.	112020114319	Karthick A	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
14.	112020114320	Kumaravel E	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
15.	112020114323	Manimaran S	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
16.	112020114324	Manoj M J	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
17.	112020114325	Mohan Raj A	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
18.	112020114327	Murali Krishnan S	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
19.	112020114328	Nagarajan V	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
20.	112020114330	Naresh Kumar N	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
21.	112020114335	Prakash S	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
22.	112020114336	Prasanth K	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
23.	112020114338	Sarath V	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
24.	112020114341	Sugumar M	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
25.	112020114342	Sunil Kumar M	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
26.	112020114343	Taejas D	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
27.	112020114345	Tamil Selvan S	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
28.	112020114346	Thangamani P	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
29.	112020114347	Thanigaivel A	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
30.	112020114348	Thiyagarajan P P	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022



  
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31.	112020114349	Thiyagu M	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
32.	112020114351	Vignesh K	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
33.	112020114352	Vignesh P	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
34.	112020114353	Vignesh S	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022
35.	112020114357	Yuvarajan N	Sri Sai Precision Components	Thirumullaivoyal	21-03-2022 to 25-03-2022



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JAYA SAKTHI ENGINEERING COLLEGE  
St. Mary's Nagar, Near Avadi,  
Thiruninravur, Chennai-602024



**SRI SAI PRECISION COMPONENTS**

Manufacturers of CNC Precision Components

T-12A, SIDCO Women's Industrial Park, Katkur Estate, Thirumullaivoyal, Chennai - 600 062  
Mobile : 8056090582 Email : sri-sai-prec-comp@gmail.com



# Certificate of Appreciation

THIS RECOGNITION IS AWARDED TO



**BALAJI. R**

**JAYA SAKTHI ENGINEERING COLLEGE**

FOR SUCCESSFUL COMPLETION OF TRAINING  
BOTH PRACTICAL AND THEORY IN METROLOGY  
MEASUREMENT & CNC SIMULATION AT SRI SAI  
PRECISION COMPONENT, THIRUMULLAIVOYAL FROM  
21-03-2022 TO 25-03-2022.



PRINCIPAL

REF : SSPC/JSEC/2022/M004

JAYA SAKTHI ENGINEERING COLLEGE  
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Mobile : 8056090582 Email : sri-sai-prec-comp@gmail.com



IAS-AMZ



# Certificate of Appreciation

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**BHUVANESHWARAN. V**

**JAYA SAKTHI ENGINEERING COLLEGE**

FOR SUCCESSFUL COMPLETION OF TRAINING  
BOTH PRACTICAL AND THEORY IN METROLOGY  
MEASUREMENT & CNC SIMULATION AT SRI SAI  
PRECISION COMPONENT, THIRUMULLAIVOYAL FROM  
21-03-2022 TO 25-03-2022.



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St. Mary's Nagar, Ne. Avadi,  
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REF : SSPC/JSEC/2022/M005

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2<sup>nd</sup> August 2022

To whom so ever It May Concern

This is to certify that **Ms. Gayathri M**, a student of II year B.E(CSE), **Jaya Sakthi Engineering College** has successfully completed 1 month of Internship Programme at our Company from 2<sup>nd</sup> July 2022 to 2<sup>nd</sup> August 2022 and was trained in Java. He has worked on a project **University Management System** under the guidance of Mr. G. Mohan (Senior Software Engineer). During the period of his internship programme with us he was found punctual and hardworking and has successfully completed the project.

We wish him every success in life.

For SSB SOFTWARE SOLUTIONS PVT LTD,



(Authorized Signatory)



PRINCIPAL  
JAYA SAKTHI ENGINEERING COLLEGE  
St. Mary's Nagar, Near Avadi,  
Thiruninravur, Chennai-602024

Regd office

T-1, Sara Apartments, 18, Central st, Kilpauk Garden Colony, Chennai-600010  
CIN- U72900TN2015PTC099571  
GSTIN- 33AAVCS5835P1ZE

22<sup>nd</sup> July 2022

**INTERNSHIP COMPLETION CERTIFICATE**

This is to certify that Ms. OMEGA. S (Reg.No. 112018104007) Student of B.E.,(Computer Science and Engineering) Jaya Sakthi Engineering College- Chennai, has successfully completed the Internship PYTHON domain from February 2022 to April 2022 in our company. During the period, she had been exposed to different processes and found to be Punctual, Hard Working and Inquisitive.

We wish her every success in life and career.

For Shia#sh Info Solutions Private Limited



**Ashwini Kanniyappan**

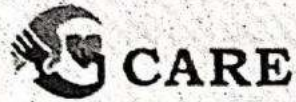
**Manager – Human Resources**



Shia#sh Info Solutions Private Limited  
#e51, Level 4, Tower A, Rattha TEK Meadows, Old Mahabalipuram Road,  
Sholinganallur, Chennai – 600 119, Tamil Nadu, India  
+91 44 66255681 info@shia#sh.com

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JAYA SAKTHI ENGINEERING COLLEGE  
St. Mary's Nagar, Near Avadi,  
Thiruvirupuram, Chennai-602024

SI NO: DAMS/2022/30065



Medi career



DEEPAM ACADEMY OF MEDICAL SCIENCES




# CERTIFICATE OF APPRECIATION V.SARANYA

For having completed the training both practical and theory in  
"BIOMEDICAL INSTRUMENTATION"  
from 18.10.2021 to 23.10.2021

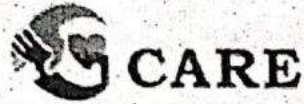
Head of the Department



  
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JAYA SAKTHI ENGINEERING COLLEGE  
St. Mary's Nagar, Near Avadi,  
Thiruninravur, Chennai-602024



SI.NO: DAMS/2022/300&5



Medi career



**DEEPAM ACADEMY OF MEDICAL SCIENCES**



# CERTIFICATE OF APPRECIATION C.K.DEEPAK KUMAR

For having completed the training both practical and theory in  
"BIOMEDICAL INSTRUMENTATION"  
from 18.10.2021 to 23.10.2021

Head of the Department



PRINCIPAL  
JAYA SAKTHI ENGINEERING COLLEGE  
St. Mary's Nagar, Near Avadi,  
Thiruninravur, Chennai-602024





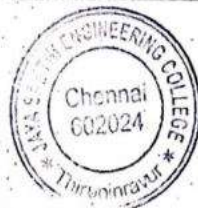
# Jaya Sakthi Engineering College

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St. Mary's Nagar, Thiruninravur, (Near Avadi), Chennai - 602 024  
www.sakthiec.edu.in email : info@sakthiec.edu.in

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### PROJECT DETAILS-2021-2022

S.NO	REGISTER NO	NAME	PROJECT TITLE	NAME OF THE SUPERVISOR
1	112018104002	Jayashree .V	Randomized Conversation Matrix Based Shoulder Surfing Resistant System	Mrs.P.Jayasri Archana Devi, HOD/CSE
2	112018104011	Sindhu. S		
3	112018104301	Yamini G.		
4	112018104003	Karthikeyan.S	Flexible-Event-Triggered Filter-Design With Restraint And Cyber Attacks	Mrs.M.Jayanthi, AP/CSE
5	112018104009	Sathyadass . S		
6	112018104004	Krishnamoorthy. S	Random Forest Model With Label Text Encoder In Pharmacies	Mrs.S.Sivakami, AP/CSE
7	112018104013	Sreejith .B		
8	112018104005	Naresh . N	Embedding Audio And Video For Secure Data Transfer Using Lsb And Wavelet Transform	Mrs.S.Sivakami, AP/CSE
9	112018104007	Prabhakaran . D		
10	112018104006	Omega. S	Real Time Weapon Detection Using Region Based Spatio-Temporal Machine Learning Techniques	Mr.S.Selvakumaran, AP/CSE
11	112018104008	Prithika.N		
12	112019104001	Dhanasekaran. P	Centralized Eye Bank Web Application Repository	Mrs.P.Jayasri Archana Devi, HOD/CSE
13	112019104003	Dinesh. S		
14	112019104013	Vasanth Kumar. S		



*[Signature]*  
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Thiruninravur, Chennai-602024

15	112019104002	Dinesh. P	Shilling Attack	Mrs.M.Jayanthi, AP/CSE
16	112019104004	Dinesh Kumar K		
17	112019104008	Nishanth. S		
18	112019104006	Jeevitha. K	Gestational Diabetes	Mr.S.Selvakumaran, AP/CSE
19	112019104007	Karthika. V		
20	112019104011	Thivya. R.S		
21	112019104010	Shiyamsundhar. V	Picworks Web Application	Mrs.S.Sivakami, AP/CSE
22	112019104012	Vasanthkumar. B		
23	112019104301	Manikandan. V	Job Placement System Implementation using PHP	Mrs.M.Jayanthi, AP/CSE
24	112019104302	Ravivarma. V		
25	112019104303	Kumaran. V		

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### PROJECT DETAILS-2021-2022

S.N O	REGISTER NO	NAME	PROJECT TITLE	NAME OF THE COMPANY	FROM- TO (MM- YYYY)	YEAR
1	112018104002	Jayashree .V	Randomized Conversation Matrix Based Shoulder Surfing Resistant System	Invent {iT}Solutions	Feburary 2022 to June 2022	IV
2	112018104011	Sindhu. S				
3	112018104301	Yamini G.				
4	112018104003	Karthikeyan.S	Flexible-Event-Triggered Filter-Design With Restraint And Cyber Attacks	Invent {iT}Solutions	Feburary 2022 to June 2022	IV
5	112018104009	Sathyadass . S				
6	112018104004	Krishnamoorthy . S	Random Forest Model With Label Text Encoder In Pharmacies	Invent {iT}Solutions	Feburary 2022 to June 2022	IV
7	112018104013	Sreejith .B				
8	112018104005	Naresh . N	Embedding Audio And Video For Secure Data Transfer Using Lsb And Wavelet Transform	Invent {iT}Solutions	Feburary 2022 to June 2022	IV
9	112018104007	Prabhakaran . D				
10	112018104006	Omega. S	Real Time Weapon Detection Using Region Based Spatio-Temporal Machine Learning Techniques	Invent {iT}Solutions	Feburary 2022 to June 2022	IV
11	112018104008	Prithika.N				

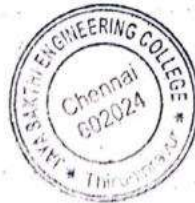


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12	112019104001	Dhanasekaran. P	Centralized Eye Bank Web Application Repository	Shiash Info Solutions Private Limited	Feburary 2022 to June 2022	III
13	112019104003	Dinesh. S				
14	112019104013	Vasanth Kumar. S				
15	112019104002	Dinesh. P	Shilling Attack	Shiash Info Solutions Private Limited	Feburary 2022 to June 2022	III
16	112019104004	Dinesh Kumar. K				
17	112019104008	Nishanth. S				
18	112019104006	Jeevitha. K	Gestational Diabetes	Shiash Info Solutions Private Limited	Feburary 2022 to June 2022	III
19	112019104007	Karthika. V				
20	112019104011	Thivya. R.S				
21	112019104010	Shiyamsundhar. V	Pic works Web Applications	Shiash Info Solutions Private Limited	Feburary 2022 to June 2022	III
22	112019104012	Vasanthkumar. B				
23	112019104301	Manikandan. V	Job Placement System Implementation using PHP	Shiash Info Solutions Private Limited	Feburary 2022 to June	III
24	112019104302	Ravivarma. V				
25	112019104303	Kumaran. V				

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**RANDOMIZED CONVOLUTION MATRIX BASED  
SHOULDER SURFING RESISTANT SYSTEM**

**A PROJECT REPORT**

*Submitted by*

**JAYASHREE.V**

**(112018104002)**

**SINDHU.S**

**(112018104012)**

**YAMINI.G**

**(112028104303)**

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**IN**


**COMPUTER SCIENCE AND ENGINEERING**

**JAYA SAKTHI ENGINEERING COLLEGE, THIRUNINRAVUR**

**ANNA UNIVERSITY: CHENNAI 600025**

**JUNE 2022**

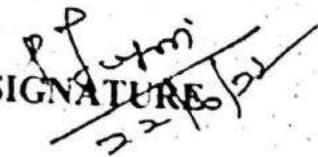


  
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**BONAFIDE CERTIFICATE**

Certified that this project report "RANDOMIZED CONVOLUTION MATRIX BASED SHOULDER SURFING RESISTANT SYSTEM" is the bonafide work of "JAYASHREE.V (112018104002) , SINDHU.S (112018104012) & YAMINI.G (112018104303)" who carried out the project work under my supervision.

  
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## ABSTRACT

Today, technology increased very fast and with newly developed innovation, competition, performances, maintains, security, privacy also increased. Security and privacy are playing vital role in any online application. To access or share any Information other user required password. In existing system, the AUTH Store-based password authentication is used in which the password is encrypted and stored in cloud that allows users to securely store arbitrary credential. Password cracking happens in many ways like dictionary attack, brute force attack, rainbow table attack, phishing, social engineering, malware, shoulder surfing, guessing and so on, and hackers or individuals can use key, loggers on public computers to steal passwords or credit card information. A matrix of  $3 \times 3$  will be displayed to the user, where he/she needs to select any four positions from the matrix. In order to use this authentication system, user need to first register himself/herself into this system by filing up the basic registration details. The registration procedure also contains password entry process with matrix position selection. After a successful registration, user can access the login module where he/she need to first authenticate the account by entering the email id which was entered while registration. Once the email id is authenticated, the user may proceed with matrix password section where he/she need to select the characters

associated with the respective matrix position

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## 5. CONCLUSION AND FUTURE ENHANCEMENT

### 5.1 CONCLUSION

Passwords provide security mechanism for authentication and protection services against unwanted access to resources. But passwords are more prone to attacks like shoulder surfing attack, brute force attacks. The Matrix based Password scheme provides an intelligent interface for users to login into system in a public domain. In this scheme, the user remembers secret String as his PIN.

- From security point of view the scheme is quite robust against some possible attacks such as shoulder surfing, guessing password, side channel attack, etc. And from usability point of view the scheme is user friendly and takes very less time for login. Also, the scheme can be used by both math and non-math-oriented people. The methodology shows significant low error rate during login procedure. In future we will explore how to extend this scheme for fully observable attacker model and to develop system.

### 5.2 FUTURE ENHANCEMENT

● In future we will explore how to extend this scheme for fully observable attacker model and to develop system. The matrix system can be replaced by color that corresponds to pin number. Users are required to select the color that corresponds to the PIN number. The PIN numbers are not directly selected in the process; thus, an adversary would be unable to retrieve the users' password. This enables the system to be shoulder-surfing resistant.



  
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2.	112019114303	Gowtham.S		
3.	112019114002	Kumaragurubaran.K		
4.	112019114313	Shavindhar.R.G		
5.	112019114004	Rajasekar.V	Design & Fabrication of Floor Cleaning Machine	Mr.D.Loganathan A.P/Mech
6.	112019114003	Manikandan.V		
7.	112019114306	Raghunathan.A		
8.	112019114313	Viswanathan.V		
9.	112019114304	Naveen.I	Design & Fabrication of Double Jaw Vice	Mr.P.Karthikeyan A.P/Mech
10.	112019114308	Surendar Raja Singh.S		
11.	112019114315	Hari Baskar.L		
12.	112019114301	Balaji.S	Design & Fabrication of Internal Grinding Attachment for Lathe	Mr.S.Vignesh A.P/Mech
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14.	112019114311	Balaji.R		
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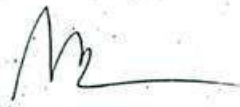
## PROJECT DETAILS-2021-2022

SL. NO.	REGISTER NO.	NAME	PROJECT TITLE	NAME OF THE SUPERVISOR
1	112018114001	Kamalesh.M	Tensile Test on Dissimilar Metals of Aluminum 6063 and Aluminum 8112 Welded By GTAW Method	P.Karthikeyan, A.P/Mech
2	112018114002	Rabin.P		
3	112018114003	Sam Solomon.J		
4	112018114302	Karthikeyan.K	Experimental and Analysis of Burr Elimination in Case pipe Hole Drilling on Watch Cases	D.Loganathan, A.P/Mech
5	112018114303	Mohamed Yasen Khan.A.K		

  
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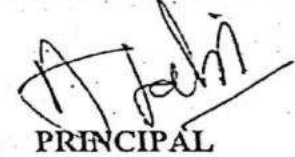
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SL. NO.	REGISTER NO.	NAME	PROJECT TITLE	NAME OF THE COMPANY/ COLLEGE, PLACE	FROM-TO (MM-YYYY)
1	112018114001	Kamalesh.M	Tensile Test on Dissimilar Metals of Aluminum 6063 and Aluminum 8112 Welded By GTAW Method	Jaya Sakthi Engineering College, Thiruninravur	March 2022 to June 2022
2	112018114002	Rabin.P			
3	112018114003	Sam Solomon.J			
4	112018114302	Karthikeyan.K	Experimental and Analysis of Burr Elimination in Case pipe Hole Drilling on Watch Cases	Jaya Sakthi Engineering College, Thiruninravur	March 2022 to June 2022
5	112018114303	Mohamed Yaseen. Khan.A.K			

  
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## TO WHOM IT MAY CONCERN

**Name of The Project** : Randomized Conversion Matrix Based Shoulder Surfing Resistant System.

**Department** : B.E (Computer Science And Engineering)


**College** : Jaya Sakthi Engineering College.  
Chennai.

**Project Time Span** : April 2022 to June 2022

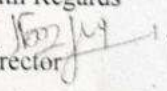
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**Name of The Project** : Embedding Audio And Video For Secure Data Transfer Using LSB and Wavelet Transform.  
**Department** : B.E (Computer Science And Engineering)  
**College** : Jaya Sakthi Engineering College.  
Chennai.  
**Project Time Span** : April 2022 to June 2022

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**Name of The Project :** Real Time Weapon Detection Using Region Based Spatio – Temporal Machine Learning Techniques  
**Department :** B.E (Computer Science And Engineering)  
**College :** Jaya Sakthi Engineering College,  
Chennai.  
**Project Time Span :** April 2022 to June 2022

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