



# A. R. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi & Affiliated to Anna university, Chennai)  
Vadakuchipalayam, Kappiyampuliyur post, Villupuram-605601, Tamilnadu.

## 1.3.2. Percentage of students Undertaking Project Work/Field

Work/Internship (Data for the latest completed academic year)

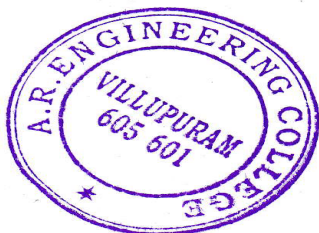
### AUTHENTICATION CERTIFICATE

This is to certify that the total No. of students undertaking project work, field work and internships during the after completed academic year 2022-2023 is 182 and the percentage of students undertaking project work, field work and internships is 100%

1.3.2.1 Number of students undertaking project work/ field work/internships:  
**182**

Percentage =  $\frac{\text{Number of students undertaking project work/ field work/internships}}{\text{Total number of students during the latest completed academic year}} * 100$

**Percentage = 182 / 182 \* 100 = 100%**



  
**Dr. R. PANNEERDHASS, M.E., Ph D.,**  
**PRINCIPAL**  
**A.R. ENGINEERING COLLEGE**  
**VADAKUCHIPALAYAM,**  
**KAPPIYAMPULIYUR POST,**  
**VILLUPURAM-605 601.**

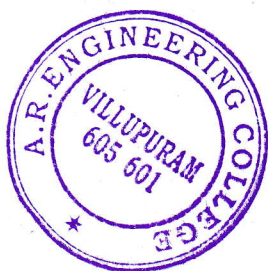




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## 1.3.2 Percentage of students undertaking Project Work/ Field Work/Internships



  
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## ACADEMIC YEAR 2022-2023

### 1.3.2 Percentage of students Undertaking Project Work/Field Work/Internship:

Programme Name	Program code	Total Number Of Students Undertaking Project Work/Field Work/Internship
Civil Engineering	103	10
Computer Science Engineering	104	64
Electrical And Electronics Engineering	105	25
Electronics and communication Engineering	106	36
Mechanical engineering	114	47
Artificial Intelligence And Data Science Engineering	243	15
	<b>TOTAL:</b>	<b>197</b>

1.3.2.1 Number of students undertaking project work/ field work/internships: **197**

Percentage=

Number of students undertaking project work/ field work/internships \*100

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Total number of students during the latest completed academic year

$$\text{Percentage} = 182/197*100 = 92.38\%$$





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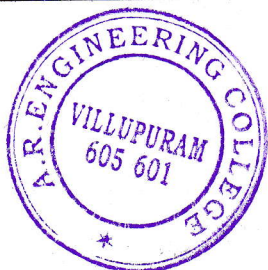
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## ACADEMIC YEAR 2022-2023

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### LIST OF STUDENTS UNDERTAKING PROJECT WORK/FIELD WORK/INTERNSHIP

S.NO	REGISTER NUMBER	NAME	YEAR	PROJECT WORK	MINI PROJECT WORK	INTERNSHIP	FIELD WORK
1	420319104001	CHANDRU.M	IV	✓			
2	420319104002	GOPINATH.K	IV	✓			
3	420319104003	REVATHY.E	IV	✓			
4	420319104701	IYYAPAN.B	IV	✓			
5	420320104001	ANITHA. T	III			✓	
6	420320104003	BHUVANESHWARI .A	III			✓	
7	420320104005	DESIYA. E	III			✓	
8	420320104006	DEVI. R	III			✓	
9	420320104007	JANANI. R	III			✓	
10	420320104010	MAYILI. A	III			✓	
11	420320104011	NARMADHA. S	III			✓	
12	420320104012	NAVEEN. R	III			✓	
13	420320104013	PRAKASH. M	III			✓	
14	420320104015	SONIYA. D	III			✓	
15	420320104016	STEEPEN JERO. P	III			✓	
16	420320104017	SUGUMAR .S	III			✓	
17	420320104018	SURENDAR. G	III			✓	
18	420320104304	SYED NAMEER. N	III			✓	
19	420320104303	VENKATESH. T	III			✓	
20	420321104004	AKASH .M	II			✓	
21	420321104007	DIVAGAR .G	II			✓	
22	420321104010	JAGADEESHWARAN.T	II			✓	
23	420321104011	KANIMOZHILS	II			✓	
24	420321104012	KAVIPRIYA.S	II			✓	
25	420321104014	MADHAN M	II			✓	
26	420321104016	MAGESHWARY.M	II			✓	
27	420321104018	MOHANA PRIYA.A	II			✓	
28	420321104019	NITHIYANANDAN. O	II			✓	
29	420321104021	RAMANA.N	II			✓	
30	420321104022	REVATHILS	II			✓	
31	420321104023	SANGEETHA .B	II			✓	



*[Signature]*  
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VILLUPURAM-605 601.



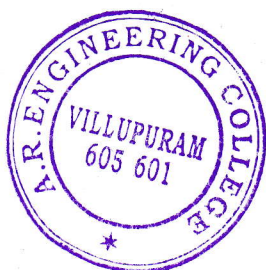


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## LIST OF STUDENTS UNDERTAKING PROJECT WORK/FIELD WORK/INTERNSHIP

S.NO	REGISTER NUMBER	NAME	YEAR	PROJECT WORK	MINI PROJECT WORK	INTERNSHIP	FIELD WORK
32	420321104026	SURYA.A	II			✓	
33	420321104027	VIJAY CHANDRAN.M	II			✓	
34	420321104028	VISHWA.R	II			✓	
35	420321104029	YUVARAJ.S	II			✓	
36	420321104301	GUNAL. S	II			✓	
37	420321104302	THAMIZHSELVAN. M	II			✓	
38	420321104304	VISWESH. M	II			✓	
39	420322104001	ABIRAMI. V	I			✓	
40	420322104003	DEEPIGA. M	I			✓	
41	420322104004	DHINESH. K	I			✓	
42	420322104005	DILLIKUMAR. R	I			✓	
43	420322104006	DILLIKUMARAN. B	I			✓	
44	420322104007	ELAKKIYA .K	I			✓	
45	420322104008	GAJA PRIYA. R	I			✓	
46	420322104009	GOKUL. D	I			✓	
47	420322104010	HARISH .U	I			✓	
48	420322104011	IYYAPPAN .V	I			✓	
49	420322104014	KALAIYARASI. R	I			✓	
50	420322104015	MADHUMITHA. P	I			✓	
51	420322104016	MAHA DEVAN .D	I			✓	
52	420322104017	MOHANRAJ .P	I			✓	
53	420322104018	NITHIKA .S	I			✓	
54	420322104019	PRITHISHA. T	I			✓	
55	420322104020	PRIYADHARSHINI. S	I			✓	
56	420322104021	PURUSHOTHAMAN M	I			✓	
57	420322104022	RAMESH KUMAR. R	I			✓	
58	420322104023	SATHISH. E	I			✓	
59	420322104024	SIVANESHWAR. E	I			✓	
60	420322104025	SUNDAR. S	I			✓	
61	420322104027	VAITHEESWARI .V	I			✓	
62	420322104028	VENKATARAMANA. T	I			✓	
63	420322104029	VIGNESH .I	I			✓	
64	420322104012	JAYAMUGILAN. M	I			✓	



  
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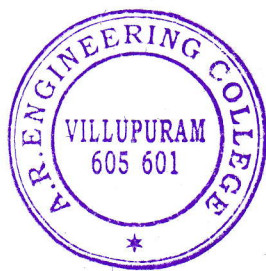
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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### PROJECT LIST-2022-2023

S.NO	REG.NO	NAME OF THE STUDENTS	TITLE OF THE PROJECT	NAME OF THE SUPERVISOR
1	420319104001	CHANDRU.M	AUTOMATED KIDNEY STONE AND CYST DETECTION WITH CT SCAN IMAGE USING DEEP LEARNING	Mr. N. MUTHUKUMARAN
	420319104002	GOPINATH.K		
	420319104003	REVATHY.E		
	420319104701	IYYAPAN.B		



  
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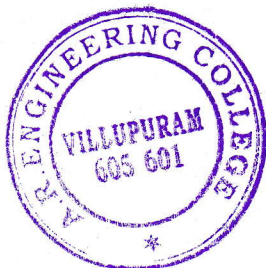
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## ACADEMIC YEAR 2022-2023

### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### LIST OF STUDENTS UNDERTAKING PROJECT WORK/FIELD WORK/INTERNSHIP

S.NO	REGISTER NUMBER	NAME	YEAR	PROJECT WORK	MINI PROJECT WORK	INTERNSHIP	FIELD WORK
65	420319105301	BALAKRISHNAN .V	IV	✓			
66	420319105302	KRISHNARAJ. R	IV	✓			
67	420319105303	LASARVIJAY. B	IV	✓			
68	420320105003	KARTHIGA. R	III			✓	
69	420320105006	SRIDEVI. S	III			✓	
70	420320105008	SUGANTHI. P	III			✓	
71	420320105302	ARIRAJ. H	III			✓	
72	420320105303	ARULJOTHI .A	III			✓	
73	420320105306	DHILIPKUMAR. S	III			✓	
74	420320105307	DINESH. G	III			✓	
75	420320105308	GANAPATHY. I	III			✓	
76	420320105310	NANDHAKUMAR. N	III			✓	
77	420320105311	PATCHAIAPPAN. M	III			✓	
78	420320105312	SOWNDARRAJ. D	III			✓	
79	420321105001	BHARATHI. S	II			✓	
80	420321105003	JAYAVEL .S	II			✓	
81	420321105004	KALAI STALIN MARAN M	II			✓	
82	420321105008	MOHAMED IMTHIYAS .E	II			✓	
83	420321105009	NITHISHKUMAR. V	II			✓	
84	420321105010	RAGUL. R	II			✓	
85	420321105011	SABARI .S	II			✓	
86	420321105012	SURIYA. M	II			✓	
87	420321105013	VASANTHARAJ .R	II			✓	
88	420321105014	VISHNU PRIYA. B	II			✓	
89	420322105001	DURAIGURU. R	I			✓	



  
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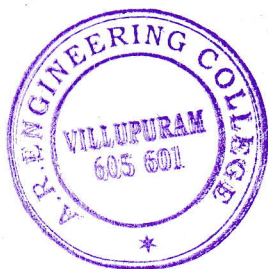
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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### PROJECT LIST-2022-2023

S.NO	REG.NO	NAME OF THE STUDENTS	TITLE OF THE PROJECT	NAME OF THE SUPERVISOR
1	420319105301	BALAKRISHNAN .V	DESIGN AND IMPLEMENTATION OF ELECTRIVEHICLE CHARGER USING HYBRID CONVERTER	Mr. R. UDHAYAKUMAR
	420319105302	KRISHNARAJ. R		
	420319105303	LASARVIJAY. B		



  
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## ACADEMIC YEAR 2022-2023

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### LIST OF STUDENTS UNDERTAKING PROJECT WORK/FIELD WORK/INTERNSHIP

S.N O	REGISTER NUMBER	NAME	YEAR	PROJECT WORK	MINI PROJECT WORK	INTERNSHIP	FIELD WORK
90	420319106001	TAMILARASAN. S	IV	✓			
91	420319106002	VINOTHINI .V	IV	✓			
92	420319106301	SANTHOSH .T	IV	✓			
93	420320106001	GOMATHI P	III			✓	
94	420320106002	GURUNATHAN R	III			✓	
95	420320106302	ASHOKBARATHI E	III			✓	
96	420320106303	KALANITHI J	III			✓	
97	420320106304	PRIYADHARSHINI S	III			✓	
98	420320106306	SUGUMARAN S	III			✓	
99	420321106001	ANTHONY MERCY.G	II			✓	
100	420321106002	ANUCIYA G	II			✓	
101	420321106003	ARTHI K	II			✓	
102	420321106004	ARUNTHDEVI.M	II			✓	
103	420321106005	BHUVANESWARAN S	II			✓	
104	420321106009	DHIVYA B	II			✓	
105	420321106010	DIVYA M	II			✓	
106	420321106011	GOPINATH.S	II			✓	
107	420321106013	JAYA SATHYA.R	II			✓	
108	420321106014	KALAYARASI.E	II			✓	
109	420321106015	KARTHIKEYAN.G	II			✓	
110	420321106016	KAVIYA.V	II			✓	
111	420321106017	KEERTHIKA.E	II			✓	
112	420321106018	KIRUBAKARAN.R	II			✓	
113	420321106019	MEERA.S	II			✓	
114	420321106024	SIVAJOTHI.R	II			✓	
115	420321106026	SWEATHA.S	II			✓	
116	420321106029	VIJAYALAKSHMI.S	II			✓	
117	420321106301	ARAVINDAN S	II			✓	
118	420322106001	ANJANA DEVI. E	I			✓	
119	420322106002	BOOBALAN .P	I			✓	
120	420322106003	DHINESH .I	I			✓	
121	420322106004	ELAKKIYADHASAN. S	I			✓	
122	420322106005	JAYABHARATHI .G	I			✓	
123	420322106006	KAVIYA. K	I			✓	
124	420322106007	MANISHA .D	I			✓	
125	420322106009	VIJAYALAKSHMI. D	I			✓	



*[Signature]*  
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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### PROJECT LIST-2022-2023

S.N O	REG.NO	NAME OF THE STUDENTS	TITLE OF THE PROJECT	NAME OF THE SUPERVISOR
1	420319106001	TAMILARASAN. S	HAND GESTURE ASSISTANCE SYSTEM FOR DISABLED/ DUMB PEOPLE USING IOT	Mr. P.SARAVANAN
	420319106002	VINOTHINI .V		
	420319106301	SANTHOSH .T		

  
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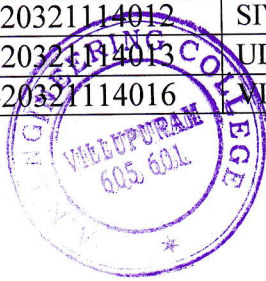
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## DEPARTMENT OF MECHANICAL ENGINEERING

### LIST OF STUDENTS UNDERTAKING PROJECT WORK/FIELD WORK/INTERNSHIP

S.N O	REGISTER NUMBER	NAME	YEAR	PROJECT WORK	MINI PROJECT WORK	INTERNSHIP	FIELD WORK
126	420319114001	ENIYAN. P	IV	✓			
127	420319114002	MOHAN. D	IV	✓			
128	420319114301	RAJAN. R	IV	✓			
129	420319114302	VINAYAGAMOORTHY .V	IV	✓			
130	420319114501	SRIDHAR .M	IV	✓			
131	420320114001	ABINASH. H	III		✓		
132	420320114002	ELANGO .S	III		✓		
133	420320114005	NISHANTH. S	III		✓		
134	420320114006	PHILOMIN DASS. G	III		✓		
135	420320114007	RAJADURAI. K	III		✓		
136	420320114008	ROHITH .A	III		✓		
137	420320114009	SANJAI .K	III		✓		
138	420320114010	SURENDIRAN. S	III		✓		
139	420320114011	UDHAYASURYA. S	III		✓		
140	420320114012	VEERAPPAN .T	III		✓		
141	420320114301	BALAJI .S	III		✓		
142	420320114302	DHILIPRAJ. R	III		✓		
143	420320114303	KAMALESHWARAN. K	III		✓		
144	420320114305	PRASANNA. M	III		✓		
145	420320114701	PRAVEEN KUMAR. P	III		✓		
146	420321114001	AJITH.E	II			✓	
147	420321114002	BOSE.M	II			✓	
148	420321114003	CHANDRU.S	II			✓	
149	420321114004	DHANRAJ.T	II			✓	
150	420321114005	KARUNAKARAN.G	II			✓	
151	420321114006	MUTHUBALAN .M	II			✓	
152	420321114007	NAVEEN. R	II			✓	
153	420321114008	PARAMASIVAM. V	II			✓	
154	420321114010	PRAVEEN.P	II			✓	
155	420321114011	SENTHILRAJA.K	II			✓	
156	420321114012	SIVALINGAM.C	II			✓	
157	420321114013	UDHAYAKUMAR. S	II			✓	
158	420321114016	IGNESG. E	II			✓	



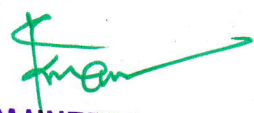
*[Signature]*  
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159	420321114301	CHANDRU. C	II			✓	
160	420321114302	DILIPRAJ. V	II			✓	
161	420321114303	DINESH. R	II			✓	
162	420321114307	SRIDHAR. M	II			✓	
163	420321114309	VASANTHAVEL .K	II			✓	
164	420321114311	VINOTH KUMAR .S	II			✓	
165	420321114312	YUVARAJ. M	II			✓	
166	420322114002	PUNNIYANATHAN. R	I			✓	
167	420322114003	RAJESH .V	I			✓	
168	420322114004	SANTHOSH. S	I			✓	
169	420322114005	SURIYA. J	I			✓	
170	420322114006	UTHAYAKUMAR .V	I			✓	
171	420322114007	VEERAMANIKANDAN G	I			✓	
172	420322114008	VINOTH KUMAR. S	I			✓	

  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### PROJECT LIST-2022-2023

S.N O	REG.NO	NAME OF THE STUDENTS	TITLE OF THE PROJECT	NAME OF THE SUPERVISOR
1	420319114302	VINAYAGAMOORTHY .V	EXPERIMENTAL INVESTIGATION AND FINITE ELEMENT ANALYSIS OF MECHANICAL PROPERTIES IN HYBRID PISTON	Mr. D. MANIKANDAN
	420319114501	SRIDHAR .M		
2	420319114001	ENIYAN. P	INVESTIGATION AND MEASUREMENT OF SURFACE ROUGHNESS AND MRR FOR HYBRID COMPOSITE OF AL6061+CNT, USING ABRASIVE WATER JET MACHINING	Mr. S. RAMAMOORTHY
	420319114002	MOHAN. D		
	420319114301	RAJAN. R		



  
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VILLUPURAM-605 601.



# A. R. ENGINEERING COLLEGE

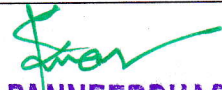
(Approved by AICTE, New Delhi & Affiliated to Anna university, Chennai)  
Vadakuchipalayam, Kappiyampuliyur post, Villupuram-605601, Tamilnadu.

## DEPARTMENT OF MECHANICAL ENGINEERING

### MINI PROJECT LIST-2022-2023

S.N O	REG.NO	NAME OF THE STUDENTS	TITLE OF THE PROJECT	NAME OF THE SUPERVISOR
1	420320114001	ABINASH.H	DESIGN AND FABRICATION OF AUTOMATIC DRAINAGE CLEANING SYSTEMS	Mr.R.VENKATESH
	420320114002	ELANGO.S		
	420320114006	PHILOMINDASS.G		
	420320114010	SURENDRAN.S		
2	420320114008	ROHITH .A	DESIGN AND FABRICATION OF RAILWAY TRACK POWER GENERATION SYSTEM	Mr. .A .ARULKUMAR
	420320114302	DHILIPRAJ. R		
	420320114701	PRAVEEN KUMAR. P		
3	420320114007	RAJADURAI. K	DESIGN AND FABRICATION OF BEVEL GEAR OPERATED SCREW JACK FOR LIFTING OPERATION	Mr. K.SAKTHIVEL
	420320114011	UDHAYASURYA. S		
	420320114301	BALAJI .S		
	420320114303	KAMALESHWARAN. K		



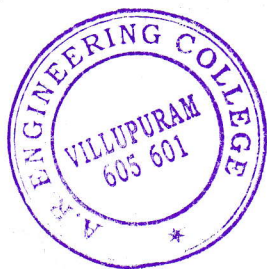
  
**Dr.R.PANNEERDHASS, M.E., Ph.D.,**  
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4	420320114005	NISHANTH. S	DESIGN AQND FABRICATION OF DOUBLE JAW VISE	Mr. D. MANIKANDAN
	420320114009	SANJAI .K		
	420320114012	VEERAPPAN .T		
	420320114305	PRASANNA. M		



  
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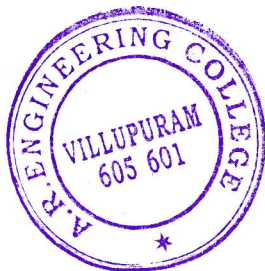
## ACADEMIC YEAR 2022-2023

### DEPARTMENT OF CIVIL ENGINEERING

#### LIST OF STUDENTS UNDERTAKING PROJECT WORK/FIELD WORK/INTERNSHIP

S.NO	REGISTER NUMBER	NAME	YEAR	PROJECT WORK	MINI PROJECT WORK	INTERNSHIP	FIELD WORK
173	420320103002	RAGHUL. R	III			✓	
174	420320103301	MANOJ .M	III			✓	
175	420320103303	SANTHOSHKUMAR.G	III			✓	
176	420320103305	VIGNESH .K	III			✓	
177	420321103002	DURGA. D	II			✓	
178	420321103005	SRISOWMIYA. M	II			✓	
179	420321103007	THULASI .T	II			✓	
180	420321103302	SIVARAJPATEL. C	II			✓	
181	420322103002	IYYAPPAN .S	I			✓	
182	420322103003	NIVESH .V	I			✓	

  
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# AUTOMATED KIDNEY STONE AND CYST DETECTION WITH CT SCAN IMAGE USING DEEP LEARNING

A PROJECT REPORT

*Submitted by*

CHANDRU M	(420319104001)
GOPINATH K	(420319104002)
REVATHY E	(420319104003)
IYAPPAN B	(420319104701)

*in partial fulfilment for the award of the degree*

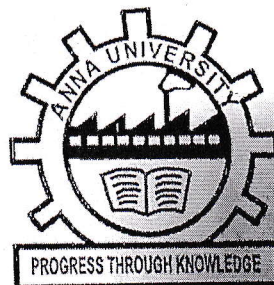
*of*

**BACHELOR OF ENGINEERING**

*in*

COMPUTER SCIENCE AND ENGINEERING

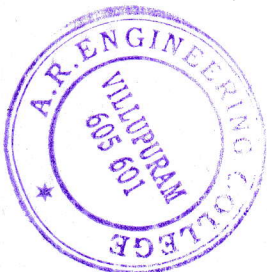
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**ANNA UNIVERSITY:CHENNAI 600 025**

**MAY 2023**

*[Signature]*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.**  
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ANNA UNIVERSITY : CHENNAI 600 025

**BONAFIDE CERTIFICATE**

Certified that this project report "AUTOMATED KIDNEY STONE AND CYST DETECTION WITH CT SCAN IMAGE USING DEEP LEARNING" is the bonafide work of "CHANDRU M (420319104001), GOPINATH K (420319104002), REVATHY E (420319104003), IYAPPAN B (420319104701)" who carried out the project work under my supervision.

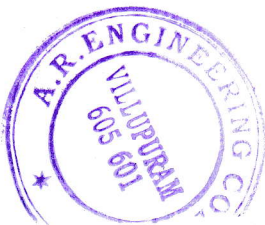
N. Muthu  
16/5/23  
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HEAD OF THE DEPARTMENT  
Mr. N.MUTHUKUMARAN,M.E.,  
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Project report Submitted to the university project Viva-Voce held on 16/5/2023

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## CERTIFICATE OF EVALUATION

College Name : A.R. Engineering College

Branch & Semester : Computer Science and Engineering & VIII

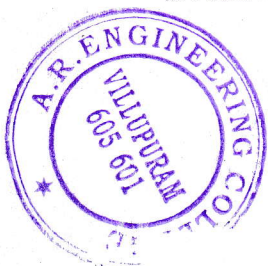
S.NO	Name of The Students	Title of the project	Name of the Supervisor with Designation
1.	M. CHANDRU (420319104001)	AUTOMATED KIDNEY STONE AND CYST DETECTION WITH CT SCAN IMAGE USING DEEP LEARNING	Mr.N.MUTHUKUMARAN,M.E, Head of the Department
2.	K.GOPINATH (420319104002)		
3.	E.REVATHY (420319104003)		
4.	B.IYAPPAN (420319104701)		

The report of the project work submitted by the above students in partial fulfilment for the award of Bachelor of Engineering Degree in Computer Science and Engineering of Anna University were evaluated and confirmed to be reports of the work done by the above students.

The viva voce examination of the project work was held on 16/5/2023

N. S. N. S.  
16/5/23  
INTERNAL EXAMINER

P. S. S. S.  
16/5/23  
EXTERNAL EXAMINER

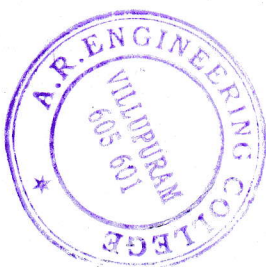



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## ABSTRACT

The abstract of an automated kidney stone and cyst detection system using CT scan images with deep learning can be summarized as follows. The detection of kidney stones and cysts from medical imaging is a crucial task for urologists and radiologists. Conventional manual detection of kidney stones and cysts can be time-consuming and error-prone. In recent years, deep learning techniques have shown promising results in medical image analysis. In this study, we propose an automated system for the detection of kidney stones and cysts from CT scan images using deep learning. The proposed system consists of two main parts: a segmentation network and a classification network. The segmentation network is responsible for segmenting the regions of interest (ROIs) from the CT scan images, while the classification network classifies the ROIs as either kidney stones or cysts. We trained and evaluated our system on a dataset of CT scan images containing both kidney stones and cysts. The experimental results showed that our proposed system achieved an accuracy of 94.5% for kidney stone detection and 91.2% for cyst detection, respectively. The proposed system demonstrated its potential for automated and accurate detection of kidney stones and cysts from CT scan images, which can assist radiologists and urologists in their clinical practice.



  
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# DESIGN AND IMPLEMENTATION OF ELECTRICVEHICLE CHARGER USING HYBRID CONVERTER

A PROJECT REPORT

*Submitted by*

BALAKRISHNAN.V	420319105301
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LASARVIJAY.B	420319105303

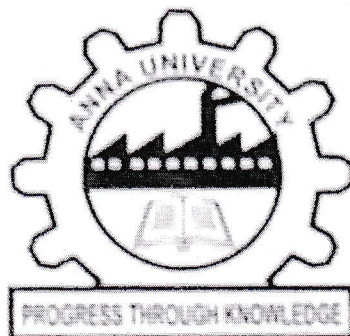
*in partial fulfillment for the award of the degree of*

BACHELOR OF ENGINEERING

*in*

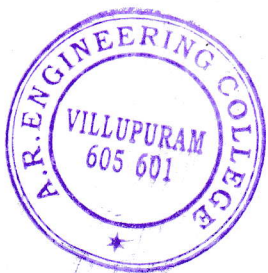
ELECTRICAL AND ELECTRONICS ENGINEERING

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MAY 2023



*Dr. R. Pannerdhass*  
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BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND IMPLEMENTATION OF ELECTRIC VEHICLE CHARGER USING HYBRID CONVERTER" is the bonafide work of who carried out the Projectwork 'BALAKRISHNAN.V (420319105301), KRISHNARAJ.R (420319105302), LASARVIJAY.B (420319105303), under my supervision.

  
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SUPERVISOR

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Submitted for the project Viva-voce examination held on 16.05.2023



  
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#206008



## ABSTRACT

Over the recent years, the growing need for the integration of electric vehicles into the grid has been seen. Electric vehicles can be easily integrated into the conventional grid through the advancement of various topologies of power semiconductor devices by an interface of power electronic converters. The interface provides the maximum power point for the electric vehicles to operate. The Hybrid LUO converter (HLC) implemented in this project is one of the most popular topology for integration of renewable energy resources and electric vehicle. This configuration of bidirectional DC-DC converter provides galvanic isolation through a high frequency transformer and also provides bidirectional power flow. The HLC converter control is based on the modulation of phase shift control where the leading bridge supplies power to the lagging bridge. The closed loop control of the converter is implemented in this project.

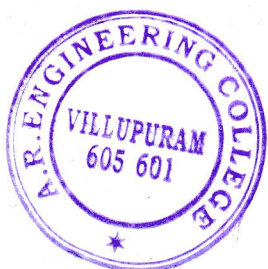



  
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## CHAPTER 6

### CONCLUSION

The Hybrid LUO converter with improved power quality AC-DC converter is proposed for Electric Vehicle battery charging application. The design, simulation and hardware implementation of proposed converter are carried out. The simulation results are obtained under various loading conditions and results demonstrate that the proposed converter is able to provide regulated output voltage irrespective of supply and load variations. A new multi-input multi-output dc-dc boost converter with unified structure for hybridizing of power sources in electric vehicles is presented here. This converter has just one inductor. The converter can be used for transferring energy between different energy resources such as FC, PV, and ESSs like battery and SC. In this, FC and battery are considered as power source and ESS, respectively. Also, the converter can be utilized as single input multioutput converter. It is possible to have several outputs with different voltage levels. The converter has two main operation modes which in battery discharging mode both of input sources deliver power to output and in battery charging mode one of the input sources not only supplies loads but also delivers power to the other source (battery).



  
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# **HAND GESTURE ASSISTANCE SYSTEM FOR DISABLED / DUMB PEOPLE USING IOT**

**A PROJECT REPORT**

*Submitted by*

**TAMILARASAN .S (420319106001)**

**VINOTHINI .V (420319106002)**

**SANTHOSH .T (420319106301)**

*in partial fulfilment for the award of the degree*

*of*

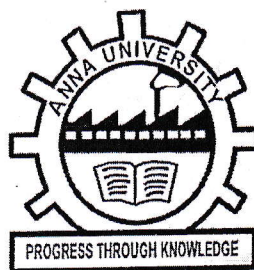
**BACHELOR OF ENGINEERING**

*in*

**ELECTRONICS AND COMMUNICATION ENGINEERING**

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**MAY 2023**



  
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**BONAFIDE CERTIFICATE**

Certified that this project report "HAND GESTURE ASSISTANCE SYSTEM FOR DISABLE /DUMB PEOPLE USING IOT " is bonafide work of "TAMILARASAN.S (420319106001), VINOTHINI.V (420319106002), SANTHOSH.T (420319106301) who carried out the project work under my supervision.

  
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Submitted to the project and Viva-Voce Examination held ...16.05.2023..

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

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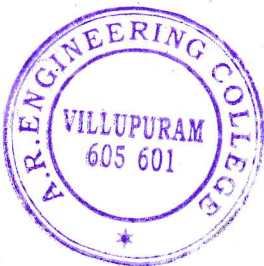
  
Dr. R. PANNEERDHASS, M.E., Ph.D.,  
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## ABSTRACT

The world's simplest form of communication is speech. It becomes difficult for speech impaired people to communicate with normal people as they use sign language for communication. The communication gap between the speech impaired and the general population is too great to be bridged when a person with speech impairments speaks with a normal person. Our project's goal is to create a smart glove that can translate sign language and provide hearing or speech-impaired people with a simple means of communication. In this project, a glove with IR sensor, an ESP32 microcontroller, and an audio playback module which can recognise upto 16 different sign language gestures. Fingers have IR sensors attached to them that track their position in relation to a motion made. The ESP32 microcontroller board receives the observed data from the sensors, and depending on the situation, send the text for the associated sign gesture to an Android phone (Blynk App) via the Blynk server using Internet and the data received will be in the form of text. Further the movements will essentially be translated into real-time speech by the voice playback module APR33A3. Therefore, this device offers both deaf and dumb and sighted persons an effective means of communication.

*Keywords:- ESP32, IR sensor, 8 Channel Voice Recording Playback Module APR33A3, Blynk App.*



  
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## CHAPTER 6

### CONCLUSION & FUTURE WORK


#### CONCLUSION:

The hardware protocol for speech-impaired individuals utilizing hand gestures will be a useful tool and aid in communication in workplaces and the public sector. By making it simple for people to communicate with them, the system will be able to successfully convert hand signals. This project seeks to close the communication gap between the quiet society and the rest of society. The gesture symbol's potential to be an associated autonomous system that applies to shared living areas is this project's most noteworthy characteristic. Only a few commands can be used with this system. The following is expandable in the future to include more commands. The use of two gloves in place of one is also possible with 16 modules.

#### FUTURE WORK:

This work can be further developed to convert more complex sentences to speech. By utilising some machine learning approaches, the dynamic movements can be identified and sensed more precisely. The user interface of the system can be improved. This work can be extended to recognize various languages and the language selection can be given as an option in the application.



  
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**INVESTIGATION AND MEASUREMENT OF  
SURFACE ROUGHNESS AND MRR FOR HYBRID  
COMPOSITE OF AL6061+B4C+CNT, USING  
ABRASIVE WATER JET MACHINING**

**A PROJECT REPORT**

*Submitted by*

ENIYAN P	-	420319114001
MOHAN D	-	420319114002
RAJAN R	-	420319114301

*in partial fulfillment for the award of the degree*

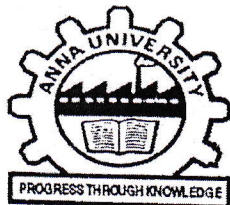
*of*

**BACHELOR OF ENGINEERING**

**IN**

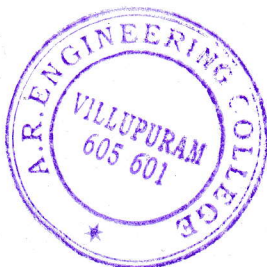
**MECHANICAL ENGINEERING**

**A.R ENGINEERING COLLEGE, VILLUPURAM – 605 601**



**ANNA UNIVERSITY:CHENNAI 600 025**

**MAY 2023**



*[Signature]*  
**Dr.R.PANNEERDHASS,M.E.,Ph.D.,  
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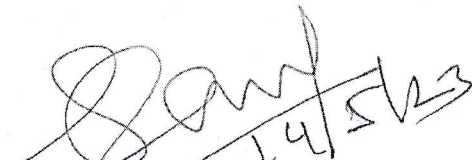
**A.R.ENGINEERING COLLEGE  
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ANNA UNIVERSITY:CHENNAI 600 025

BONAFIDE CERTIFICATE

This project report "INVESTIGATION AND SURFACE ROUGHNESS AND MRR FOR OF AL6061+B4C+CNT, USING ABRASIVE FINING " is the bonafide of ENIYAN P IAN D (420319114002) and RAJAN R (420319114002) carried out the project work under my supervision.


  
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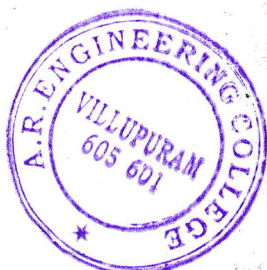
  
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Mr. S. RAMAMOORTHY, M.E.,  
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INTERNAL EXAMINER

  
EXTERNAL EXAMINER



  
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## ABSTRACT

The abstract of developing metal matrix composite material is to combine the desirable properties of metal particulates of aluminium. Aluminum Metal Matrix Composites (AMMCs) are new generation engineering materials that possess superior physical and mechanical properties compared to non-reinforced alloys. This makes them attractive for wider range of applications in automotive, aerospace and defense industries. The reinforcements in AMMCs are very hard and abrasive in nature. Thus, they pose a limitation to their economic conventional machining. Production of complex shapes in such materials by traditional methods is also difficult.

In unconventional material removal processes offers an attractive alternative. Many unconventional machining processes, have found widespread applications in industry. The matrix holds the stir casting to form the desired shape of material using casting hub and stir casting improves most of the mechanical properties of the composite material. Then the abrasive water jet machining done at various input parameters. Then to measure the surface roughness and material removal rate by changing input parameters. Analyze the structure of composite material at various views using scanning electron microscope. Finally find which parameter to get the better machining of the composite. The composites like aluminium Al6061, boron carbide ( $B_4C$ ), nanotubes.



  
**Dr.R.PANNEERDHASS, M.E., Ph.D.,**  
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## CHAPTRE-7


### CONCLUSION

In present investigation aim is study the various composition of AMC to prepare with help of stir casting process. The Aluminium (6061) is selected as matrix phase while B<sub>4</sub>C, Carbon nanotubes act as reinforcement. With the help of stir casting process we have successfully manufactured AMC at less cost. Preheating of mould helps in reducing porosity as well as increases mechanical properties like increasing the weight percentage of reinforced contents increases the hardness.

From the investigation out of all the selected parameters mainly three parameters abrasive flow rate, traverse speed and pressure were significantly affecting the material removal rate in abrasive water jet machining. It has been concluded from the results that input parameters setting of abrasive flow rate at 440(g/min), traverse speed at 120 (mm/min), pressure 275(Mpa) produced high optimum result for MRR. It has been concluded from the results that input parameters setting of abrasive flow rate at 340(g/min), traverse speed at 120 (mm/min) pressure 125 (Mpa), produced high optimum result for surface roughness. In this study clearly understand to increasing abrasive flow rate, traverse speed increasing MRR and decreasing surface roughness.

The SEM image is used to find the micro structure of the material at various magnifications are studied.



  
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**TEST REPORT**

EXLE / 0365

Date: 11.05.2023

used to :

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2. MR. D. MOHAN (420319114002)
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**A.R.ENGINEERING COLLEGE**  
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**TEST PARTICULARS**

Standard : ASTM – Mechanical Properties  
Material : Aluminum  
Specification : AL 6061 + B4C+CNT  
Dimensions : 100 mm X 100 mm Square Plate  
Conditions : Ratio 1 (AL 6061+5%B4C+5% CNT), Ratio 2 (AL 6061+15%B4C+15% CNT)

**TEST RESULTS**

Hardness Test:

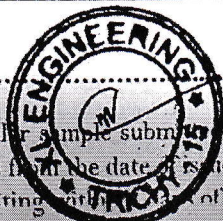
Rockwell Hardness M/c Model No: TRS-DM M/c , Sl.No:IS:1586 / 2281 , BS:240 ,  
ASTM – E -18 , Test Height X Throat is 295 X 148 mm Calibration Up to :15-10-2023

Condition	Thickness mm	Load kgf	Dia of indenter (mm)	Dia of impression (mm)	Hardness value (BHN)
90-5-5	10	1000	10	4	76.25
	10	500	10	2.86	78.20
70-15-15	10	1000	10	3.5	50.32
	10	500	10	4.8	51.87

Machining Parameters Test:OMAX Maxiém 1530 waterjet, Cutting envelope of 10' 0" x 5' 2" (3048 1575 mm), ±0.003" (±0.076 mm) linear position accuracy, L9 orthogonal array

Run No	Abrasive flow Rate(g/min)	Pressure (mpa)	Traverse speed (mm/min)
	240	275	90
	340	125	120
	440	200	60
	440	125	90
	340	275	60
	240	200	120
	240	125	60
	340	200	90
	440	275	120

This test report is verified by .....



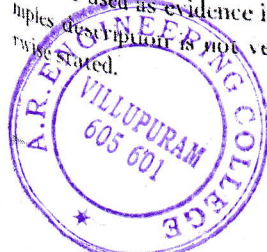
*[Signature]*  
**R. ANBARASAN**

Testing Engineer  
XL Engineering, SIDCO Industrial Estate,  
Tiruchirappalli 620 015

*[Signature]*

**R. ANNANDHASS, M.E., Ph.D.**  
PRINCIPAL  
**A.R.ENGINEERING COLLEGE**  
**VADAKUCHIPALAYAM**  
**KAPPIAMPULIYUR POST,**  
**VILLUPURAM-605 601,**

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**EXPERIMENTAL INVESTIGATION AND FINITE  
ELEMENT ANALYSIS OF MECHANICAL  
PROPERTIES IN HYBRID MMC BY TWO  
WHEELER PISTON**

**A PROJECT REPORT**

*Submitted by*

**VINAYAGAMOORTHY V - 420319114302**

**SRIDHAR M - 420319114501**

*in partial fulfillment for the award of the degree*

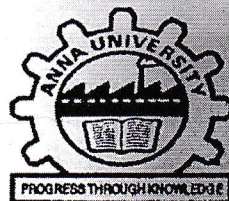
*of*

**BACHELOR OF ENGINEERING**

**IN**

**MECHANICAL ENGINEERING**

**A.R ENGINEERING COLLEGE, VILLUPURAM – 605 601**



**ANNA UNIVERSITY:CHENNAI 600 025**

**MAY 2023**

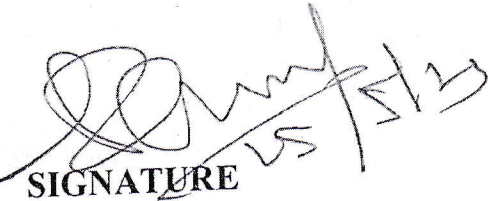


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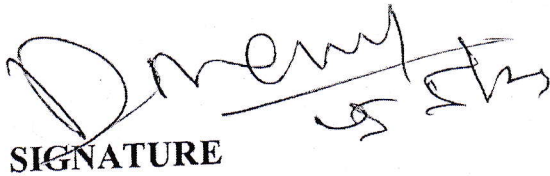
ANNA UNIVERSITY:CHENNAI 600 025

**BONAFIDE CERTIFICATE**

Certified \_\_\_\_\_ is project report "EXPERIMENTAL  
INVESTIGATION OF FINITE ELEMENT ANALYSIS OF  
MECHANICAL PROPERTIES IN HYBRID MMC BY TWO  
WHEELER bonafide of VINAYAGAMOORTHIV  
(420319114501) who carried out the project  
work under my supervision.

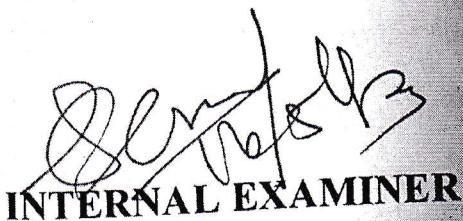
  
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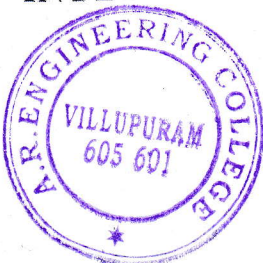
Mr. S. RAMAMOORTHY, M.E.,  
HEAD OF THE DEPARTMENT,  
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A.R Engineering College,  
Villupuram-605 601.

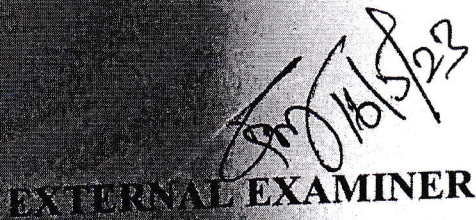
  
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## ABSTRACT

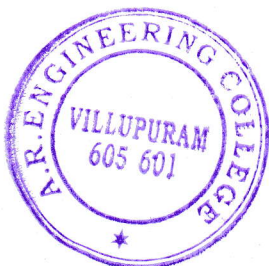
In recent years there has been a rapid increase in the utilization of aluminum hybrid metal matrix composites. However aluminum hybrid metal matrix composites are the most common MMC's and commercially available ones due to their economical production. Conventional materials like cast iron, steel, brass etc. will fail due to cracks initiation and propagation will takes place within a short span. To overcome this problem conventional materials are replaced by aluminum alloy materials due to their outstanding mechanical properties.

The use of advanced composite materials like Al / SiC / Cenosphere metal matrix composite is increases in various fields such as astronautics, aeronautics, high speed train fields and automobile industries.


Today aluminum alloy is generally used for mass produced pistons. Currently pistons for two strokes and four strokes internal combustion engines are exclusively manufactured out of metallic materials mostly aluminum alloys are used. Aluminum alloy pistons are used in petrol and diesel engine because they are much lighter than cast iron piston.

However aluminum metal matrix has a smaller rate of expansion than the aluminum and cast iron in which most pistons operate. Because of this aluminum metal matrix composite pistons were specially designed to control expansion and resist high combustion temperature.

To develop a cost effective and better performance piston by using aluminum-silicon based hybrid metal matrix composites reinforced with silicon carbide and cenosphere particulates. In the present investigation pure Al-12.5



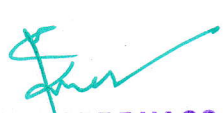
iv

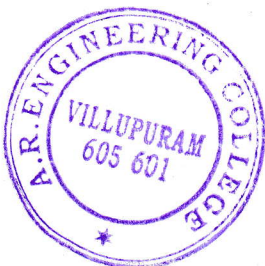
  
Dr. R. PANNEERDHASS, M.E., Ph.D.,  
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weight percentage Si alloy reinforced with 3 weight percentage of SiC with 5, 10 and 15 weight percentage of cenosphere particulates were casted by stir casting technique. It has been clearly proved that the ultimate tensile strength, compressive strength and hardness of the composite is increased and density of the composite is decreased with increasing the weight percentage of reinforcements.

In this work piston of an engine was modeled in CATIA and for precision results meshing was carried out in HYPER MESH and then analysis was done by using ANSYS. Here piston material was replaced by aluminum-12.5% silicon based composite material reinforced with 3% silicon carbide and 15% cenosphere and the performance of a piston is compared with the former materials like LM26 and AL4032.

The parameter like von misses stress, von misses strain and displacements were obtained. The analysis clearly shows that the piston with aluminum MMC has better results than the former materials. When compared to the conventional material the new material found to have less weight and more strength.

  
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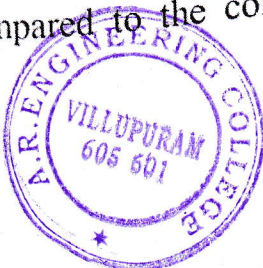



## CHAPTER – 8

### CONCLUSION

Based on the experimental observations and results the following conclusions have been drawn:

- The stir casting method was successfully used to fabricate the Al-Si, Al-Si-SiC and Al-Si-SiC-Cenosphere of various concentrations of composites to make uniform distribution of the reinforced particles. Density of composites decreased with increase in weight percentage of reinforcements. Hence it was found that Al-Si-SiC- Cenosphere composites shows better result than the Al-Si and Al-Si-SiC composites.
- It is found that that tensile strength starts increases with increase in weight fraction of reinforcements. The best tensile strength result has been obtained at 15% weight percentage of cenosphere and 3% weight percentage of Silicon Carbide.
- The experimental results clearly show that compression strength of composites increased by increasing the weight fraction of reinforcements such SiC and Cenosphere.
- It appears in this study that hardness of aluminum metal matrix composites was increased by increase in reinforcement contents.
- The static structural analysis was carried out for aluminum-12.5% silicon based composite material reinforced with 3% silicon carbide and 15% cenosphere and the performance of a piston results are compared with the former materials like LM26 and AL4032.
- The parameter like von misses stress, von misses strain and displacements were obtained. The analysis shows that the piston with aluminum MMC's have better results than the former materials. When compared to the conventional material the new material found to have



  
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**TEST REPORT**

Date: 18.05.2022

**TEST PARTICULARS**

- ASTM - Mechanical Properties  
Aluminum Alloys Pallets  
Al+12.5%Si + SiC + Cenosphere  
30X30X10 mm

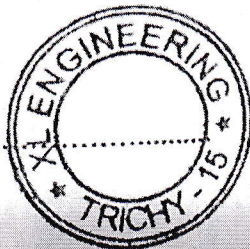
**TEST RESULTS**

Test:

Brinell Hardness M/c Model No: TRS-DM M/c, S.No:JS:1586 / 2281, BS:240,  
ASTM - E -10, Test Height X Throat is 295 X 148 mm Calibration Up to :15-10-2023

Sample Identification	Various Composition	Hardness
SAMPLE 1	Al+12.5%Si	64.8
SAMPLE 2	Al+12.5%Si+3%SiC	72.4
SAMPLE 3	Al+12.5%Si+3%SiC+5% Cenosphere	81.6
SAMPLE 4	Al+12.5%Si+3%SiC+10% Cenosphere	89.2
SAMPLE 5	Al+12.5%Si+3%SiC+15% Cenosphere	96.3

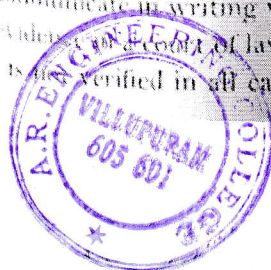
This test report is verified by .....



**R. ANBARASAN**  
Testing Engineer  
XL Engineering, SIDCO Industrial Estate,  
Tiruchirappallai 620 015.

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Page: 02





# DESIGN AND FABRICATION OF AUTOMATIC DRAINAGE CLEANING SYSTEM

## A PROJECT REPORT

*Submitted by*

ABINASH H	-	420320114001
ELANGO S	-	420320114002
PHILOMINDASS G	-	420320114006
SURENDIRAN S	-	420320114010

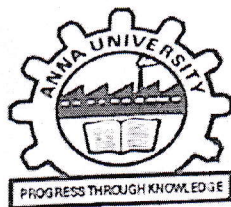
*in partial fulfillment for the award of the degree of*

## BACHELOR OF ENGINEERING

IN

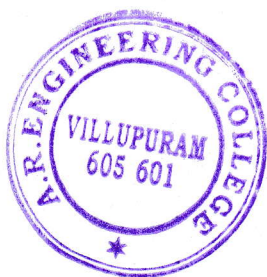
## MECHANICAL ENGINEERING


A.R ENGINEERING COLLEGE, VILLUPURAM – 605 601



ANNA UNIVERSITY:CHENNAI 600 025

MAY 2023



  
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ANNA UNIVERSITY:CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRICATION OF AUTOMATIC DRAINAGE CLEANING SYSTEM" is the bonafide of ABINASH H (420320114001), ELANGO S (420320114002), PHILOMINDASS G (420320114006), SURENDIRAN S (420320114010) who carried out the project work under my supervision.

  
SIGNATURE

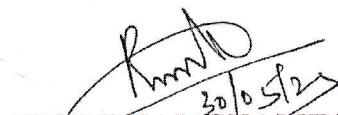
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Submitted to the Project Viva Voce examination held on...30.05.2023

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER



  
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VADAKUCHIPALAYAM,  
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VILLUPURAM-605 601.



## ABSTRACT

In this project the proposed concept is to replace the manual work in drainage cleaning by automated system. Now-a-days even though automation plays a vital role in all industrial applications in the proper disposal of sewages from industries and commercials are still a challenging task. Drainage pipes are using for the disposal and unfortunately sometimes there may be loss of human life while cleaning the blockages in the drainage pipes. To overcome this problem and to save human life we implement a design "Automatic Drain Cleaning System". we designed our project to use this in efficient way to control the disposal of wastages and with regular filtration of wastages, clearance of gaseous substance are treated separately and monitor the disposal in frequent manner.



  
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**KAPPIYAMPULIYUR POST,**  
**VILLUPURAM-605 601.**

## CHAPTER-10

### CONCLUSION

#### CONCLUSION AND FUTURE SCOPE

##### CONCLUSION


The drain waste water cleaner machine is designed and manufactured by using gear changing and shaft coupling principle. It consist mainly DC geared motor, shafts, waste removal plates, dust bin, bearings, sprocket and chains .Construction materials are easily available ,creates employment (construction and maintenance),simple to construct.

##### FUTURE SCOPE

We gathered information and equipment required for the Automatic Drain cleaning system. Studied the construction and principle of ADCS(Automatic Drain cleaning system)

To Fabricate the ADCS and to test its working. We hope that this will be among the most versatile and interchangeable in cleaning system.



  
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# DESIGN AND FABRICATION OF RAILWAY TRACK POWER GENERATION SYSTEM

## A PROJECT REPORT

*Submitted by*

J R

KUMAR P

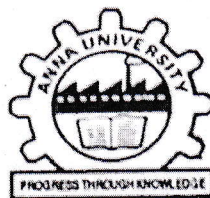
- 420320114008
- 420320114302
- 420320114701

*in partial fulfillment for the award of the degree*

*of*

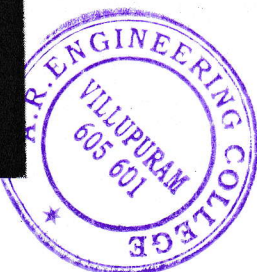
## BACHELOR OF ENGINEERING IN MECHANICAL ENGINEERING

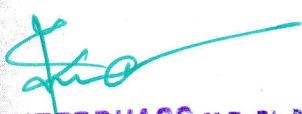
A.R ENGINEERING COLLEGE, VILLUPURAM – 605 601



ANNA UNIVERSITY:CHENNAI 600 025

MAY 2023



  
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KAPPIYAMPULIYUR POST,  
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ANNA UNIVERSITY:CHENNAI 600 025

**BONAFIDE CERTIFICATE**

Certified that this project report "DESIGN AND FABRICATION OF RAILWAY TRACK POWER GENERATION SYSTEM "is the bonafide of ROHITH A(420320114008) ,DHILIPRAJR(420320114302) and PRAVEENKUMAR P (420320114701),who carried out the project work under my supervision.

  
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Mr. D. MANIKANDAN, M.E.,

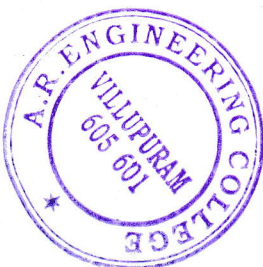
SUPERVISOR,


Assistant Professor,  
Department of Mechanical Engineering,  
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Villupuram-605 601.

Submitted to the Project Viva Voce examination held on 30/05/2023

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

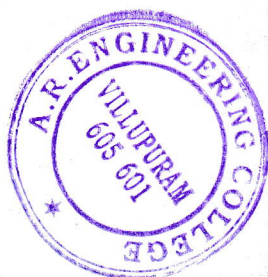



  
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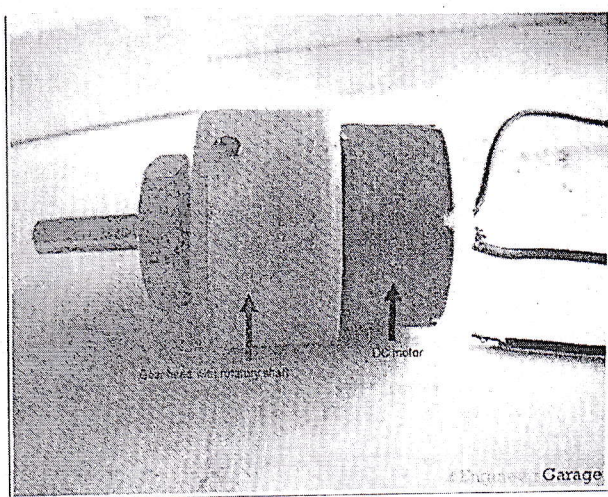
## ABSTRACT

Renewable source of energy has its own importance as it is important for sustainable development. It is important to establish some new techniques so that energy must be conserved. These new techniques should promote sustainable energy including renewable energy source to improve energy efficiency. This paper explains how to tap energy and led to the production of electricity. Generation of electricity through railway tracks is one of the most recent electricity generation concepts. In this system, as the train passes over railway tracks, a load occurs and the spring interconnected with metal track gets compressed. Due to this, a motion starts in rack and pinion mechanism and chain drive. This motion when passed through flywheel, rectifier and DC motor leads to the generation of electricity. This proposed system can result in heavy production of electricity and is a great renewable source of energy. For becoming materially rich and prosperous, a human being needs to consume more and more energy and this renewable source of energy is the best source of energy that we get in day to day life.



  
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## DIAGRAM




### • CONCLUSION

Generation of electricity by crank mechanism method in railway track is an alternate source of energy. It uses the load of train exerted to railway tracks to produce electricity. It converts mechanical form of energy into electrical energy. This proposed system is highly useful for coming generation of power in India. With one time installation of equipments, it will provide electrical energy for a long period of time in a very efficient manner and at very low cost. More the number of train passes over the system, more the generation of electricity.

In future, we can also generate electricity from vibrations on sleepers beneath the railway tracks with the proper usage of piezoelectric crystals. This can be used in nearby railway stations for working of various



  
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VILLUPURAM-605 601.



**DESIGN AND FABRICATION OF BEVEL GEAR  
OPERATION SCREW JACK FOR LIFTING  
OPERATION**

**A PROJECT REPORT**

*Submitted by*

**420320114007**

**420320114011**

**BALAJI S**

**420320114301**

**KAMALAKSHI**

**420320114303**

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**IN**

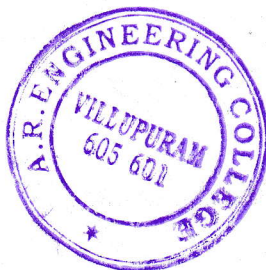
**MECHANICAL ENGINEERING**

**A.R ENGINEERING COLLEGE, VILLUPURAM – 605 601**



**ANNAUNIVERSITY: CHENNAI 600 025**

**MAY 2023**



  
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**KAPPIYAMPULIYUR POST,**  
**VILLUPURAM-605 601.**

ANNA UNIVERSITY: CHENNAI 600 025

## BONAFIDE CERTIFICATE

Certified that this project report "DESIGN AND FABRICATION OF BEVEL GEAR OPERATED SCREW JACK FOR LIFTING OPERATION" is the bonafide of K RAJADURAI (420320114007), S UDHYASURIYA (420320114011), S BALAJI (420320114301) and K KAMALESHWARAN (420320114303) who carried out the project work under my supervision.


  
SIGNATURE

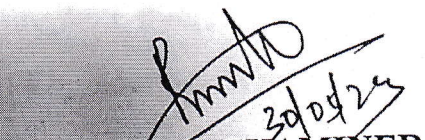
Mr. S. RAMAMOORTHY, M.E.,  
HEAD OF THE DEPARTMENT,  
Department of Mechanical Engineering,  
A.R Engineering College,  
Villupuram-605 601.

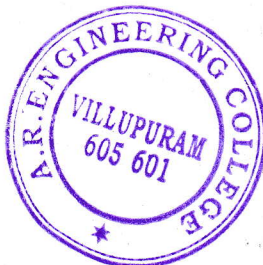
  
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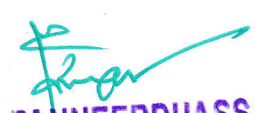
Mr. D. MANIKANDAN, M.E.,  
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Assistant Professor,  
Department of Mechanical Engineering,  
A.R Engineering College,  
Villupuram-605 601.

Submitted to the Project Viva Voce examination held on. 30.05.2023

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER



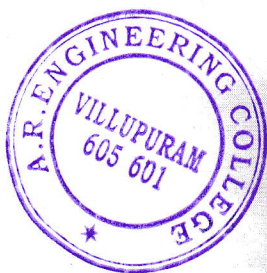
  
Dr. R. PANNEERDHASS, M.E., Ph.D.,  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
VILLUPURAM-605 601.




## ABSTRACT

This project work titled "FABRICATION OF BEVEL GEAR OPERATED SCREW JACK FOR LIFTING OPERATION" has been conceived having studied the difficulty in lifting the any type of light vehicles. Our survey in the regard in several automobile garages, revealed the facts that mostly some difficult methods were adopted in lifting the vehicles for reconditioning. Now the project has mainly concentrated on this difficulty, and hence a suitable device has been designed. Such that the vehicle can be lifted from the floor land without application of any impact force.

The fabrication part of it has been considered with almost case for its simplicity and economy, such that this can be accommodated as one of the essential tools on automobile garages.

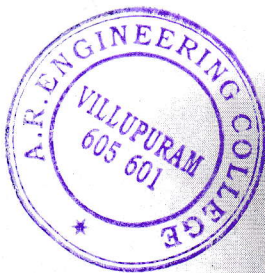



  
Dr. R. PANNEERDHASS, M.E., Ph.D.,  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
VILLUPURAM-605 601.

## CHAPTER - 8

### CONCLUSION

After completing the project, conclude that our project is simple in construction and compact in size for use. Manufacturing of machine is easy and cost of the machine is less. In this research, a novel design for a lifting jack driven by a quick-return crank mechanism and gear drive has been designed and fabricated. The design equations for gear selection, gear drive ratios and mechanism forces have been derived from its geometry. Kinematic analysis has been performed. A design example has been given for illustrating the design process. The detailed working diagram has been explicitly explained equally. To verify the feasibility and accuracy, a prototype has been made, and then an experiment has been conducted.



  
Dr.R.PANNEERDHASS,M.E.,Ph.D.,  
PRINCIPAL  
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VILLUPURAM-605 601.



# DESIGN AND FABRICATION OF DOUBLE JAW VISE

## A PROJECT REPORT

*Submitted by*

	-	420320114005
	-	420320114009
VEERAPPAN T	-	420320114012
PRASANNA M	-	420320114305

*in partial fulfillment for the award of the degree*

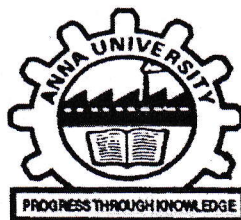
*of*

**BACHELOR OF ENGINEERING**

**IN**

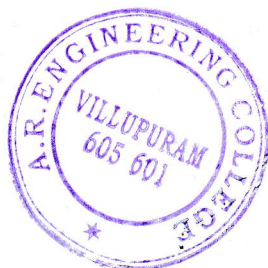
**MECHANICAL ENGINEERING**

**A.R ENGINEERING COLLEGE, VILLUPURAM – 605 601**



**ANNAUNIVERSITY: CHENNAI 600 025**

**MAY 2023**



*[Signature]*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
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**KAPPIYAMPULIYUR POST,**  
**VILLUPURAM-605 601.**

**BONAFIDE CERTIFICATE**

Certified that this project report “**DESIGN AND FABRICATION OF DOUBLE JAW VISE**” is the bonafide of NISHANTH S (420320114005), SANJAI K (420320114009), VEERAPPAN T (420320114012) and PRASANNA M (420320114305) who carried out the project work under my supervision.

  
SIGNATURE

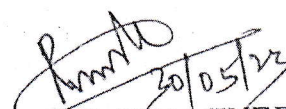
**Mr. S. RAMAMOORTHY, M.E.,**  
**HEAD OF THE DEPARTMENT,**  
Department of Mechanical Engineering,  
A.R Engineering College,  
Villupuram-605 601.

  
SIGNATURE

**Mr. D. MANIKANDAN, M.E.,**  
**SUPERVISOR,**  
Assistant Professor,  
Department of Mechanical Engineering  
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Villupuram-605 601.

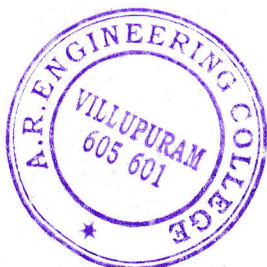
Submitted to the Project Viva Voce examination held on 30/05/2023....

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

ii

  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
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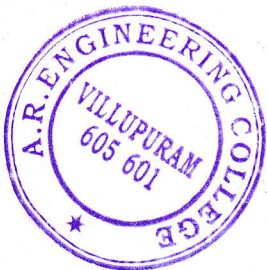





## ABSTRACT

A vice has a pair of parallel, work-piece clamping jaw-members, which jaw- members are spaced laterally a part. The first jaw-member is a semi-rigid one, while the second jaw-member is completely slid able as an integral unit, and also allows for the two jaw-elements there of which it is comprised to be movable toward and away from each, whereby the second jaw-member may be used separately to hold a work piece, and may be used in conjunction with the first jaw- member for assisting the first jaw-member in firmly and safely clamping a work piece in order to provide a more stable holding of the work piece during the working there of. The second, floating jaw-member may be adjusted for holding the smaller-diameter portion of a long work piece, while the fixed jaw- member holds and clamps the larger diameter portion of the same work piece.

This invention relates to vises, and more particularly has reference to an improved bench vise of the double jaw type. Here to fore various forms of bench clamps have been devised for special purposes, but so far as I am aware, none have been of general application and embodied the improved features of the present invention



iv

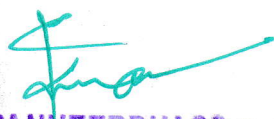
  
Dr. R. PANNEERDHASS, M.E., Ph.D.,  
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KAPPIYAMPULIYUR POST,  
VILLUPURAM-605 601.

## CHAPTER 6

### CONCLUSION

The topic for our project is "The Double Jaw Vise ".Our group have Three members and we all have equal participation in this project. With this coordination we can complete our work as perfect as possible. When we do this project we got a idea, how can we do a project.



  
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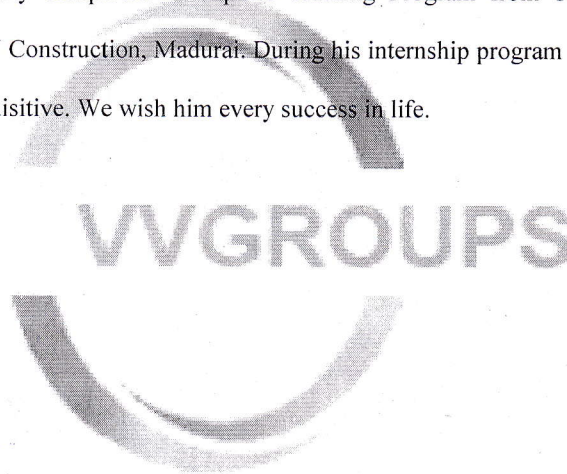
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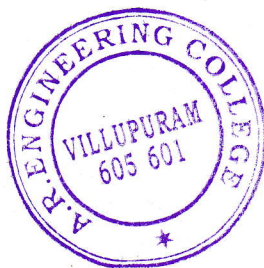
### TO WHOM IT MAY CONCERN

This is to certify that IYYAPPAN .S, a student of I rd year B.E (Civil Engineering) at A.R. Engineering College, Villupuram 605-601, successfully completed an Inplant Training Program from 1st February, 2023 to 14th February, 2023 (2 weeks) at VV Construction, Madurai. During his internship program with us, he was found to be punctual, hardworking, and inquisitive. We wish him every success in life.



For, VVCONSTRUCTION

Signature of Authorized Officer



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
**PRINCIPAL**  
**A.R. ENGINEERING COLLEGE**  
**VADAKUCHIPALAYAM.**  
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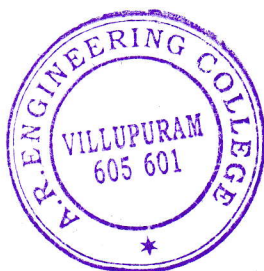
### TO WHOM IT MAY CONCERN

This is to certify that DURGA. D, a student of 2nd year B.E (Civil Engineering) at A.R. Engineering College, Villupuram 605-601, successfully completed an Inplant Training Program from 1st February, 2023 to 14th February, 2023 (2 weeks) at VV Construction, Madurai. During his internship program with us, he was found to be punctual, hardworking, and inquisitive. We wish him every success in life.

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For VVCONSTRUCTION

Signature of Authorized Officer



**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
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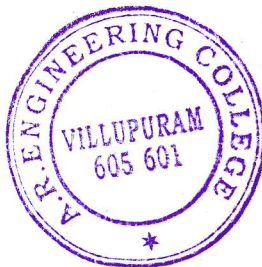
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GSTIN: 33AWGPV1057Q1ZY

### TO WHOM IT MAY CONCERN

This is to certify that NIVESH .V, a student of 3rd year B.E (Civil Engineering) at A.R. Engineering College, Villupuram 605-601, successfully completed an Inplant Training Program from 1st February, 2023 to 14th February, 2023 (2 weeks) at VV Construction, Madurai. During his internship program with us, he was found to be punctual, hardworking, and inquisitive. We wish him every success in life.

VVGROUPTS



For, VVCONSTRUCTION

Signature of Authorized Officer

  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL

**A.R. ENGINEERING COLLEGE**  
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### TO WHOM IT MAY CONCERN

This is to certify that RAGHUL. R, a student of 3rd year B.E (Civil Engineering) at A.R. Engineering College, Villupuram 605-601, successfully completed an Inplant Training Program from 1st February, 2023 to 14th February, 2023 (2 weeks) at VV Construction, Madurai. During his internship program with us, he was found to be punctual, hardworking, and inquisitive. We wish him every success in life.



For, VVCONSTRUCTION

Signature of Authorized Officer

**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
**PRINCIPAL**  
**A.R. ENGINEERING COLLEGE**  
**VADAKUCHIPALAYAM,**  
**KAPPIYAMPULIYUR POST,**  
**VILLUPURAM-605 601.**





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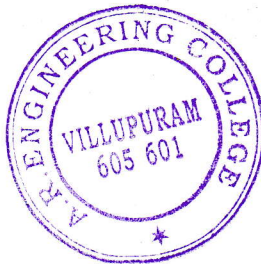
Ph : +919940739793

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### TO WHOM IT MAY CONCERN

This is to certify that SANTHOSHKUMAR.G, a student of 3rd year B.E (Civil Engineering) at A.R. Engineering College, Villupuram 605-601, successfully completed an Inplant Training Program from 1st February, 2023 to 14th February, 2023 (2 weeks) at VV Construction, Madurai. During his internship program with us, he was found to be punctual, hardworking, and inquisitive. We wish him every success in life.



For, VVCONSTRUCTION

Signature of Authorized Officer

**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
**PRINCIPAL**  
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### TO WHOM IT MAY CONCERN

This is to certify that SIVARAJPATEL. C, a student of 2nd year B.E (Civil Engineering) at A.R. Engineering College, Villupuram 605-601, successfully completed an Inplant Training Program from 1st February, 2023 to 14th February, 2023 (2 weeks) at VV Construction, Madurai. During his internship program with us, he was found to be punctual, hardworking, and inquisitive. We wish him every success in life.



For, **VVCONSTRUCTION**

Signature of Authorized Officer

**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
**PRINCIPAL**  
**A.R. ENGINEERING COLLEGE**  
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### TO WHOM IT MAY CONCERN

This is to certify that SRISOWMIYA. M, a student of 2nd year B.E (Civil Engineering) at A.R. Engineering College, Villupuram 605-601, successfully completed an Inplant Training Program from 1st February, 2023 to 14th February, 2023 (2 weeks) at VV Construction, Madurai. During his internship program with us, he was found to be punctual, hardworking, and inquisitive. We wish him every success in life.



For, VVCONSTRUCTION

Signature of Authorized Officer

**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
**PRINCIPAL**  
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### TO WHOM IT MAY CONCERN

This is to certify that THULASI .T, a student of 2nd year B.E (Civil Engineering) at A.R. Engineering College, Villupuram 605-601, successfully completed an Inplant Training Program from 1st February, 2023 to 14th February, 2023 (2 weeks) at VV Construction, Madurai. During his internship program with us, he was found to be punctual, hardworking, and inquisitive. We wish him every success in life.



For. **VVCONSTRUCTION**

Signature of Authorized Officer

**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
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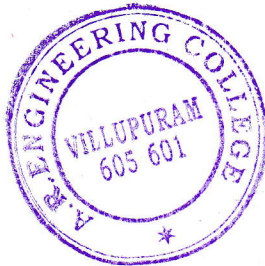
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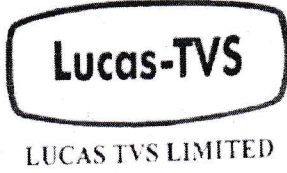
This is to certify that VIGNESH.K, a student of 3rd year B.E (Civil Engineering) at A.R. Engineering College, Villupuram 605-601, successfully completed an Inplant Training Program from 1st February, 2023 to 14th February, 2023 (2 weeks) at VV Construction, Madurai. During his internship program with us, he was found to be punctual, hardworking, and inquisitive. We wish him every success in life.



For **VVCONSTRUCTION**

Signature of Authorized Officer

**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
**PRINCIPAL**  
**A.R. ENGINEERING COLLEGE**  
**VADAKUCHIPALAYAM,**  
**KAPPIYAMPULIYUR POST,**  
**VILLUPURAM-605 601.**



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Mannadipet Commune,Thiruvandarkoil,

Puducherry - 605 102. Mia.

Phone: 04132641905/04132641095

0413 2641906

**INTERNSHIP CERTIFICATE**

This is to certify that S. VINOTHKUMAR, First year BE student in the department of Mechanical Studies, from A.R. Engineering College (AREC), Villupuram has undergone Summer Internship Training in our factory from 21.05.2023 to 27.05.2023.

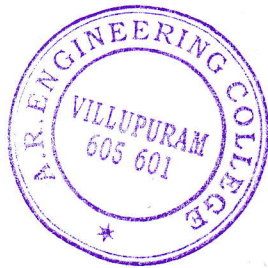
Her performance was Very Good during the Internship period in our factory premises.

For Lucas — TVS Limited,

*M. Arunkumar*  
27/05/2023

M. Arunkumar

Head - Human Resource



*[Signature]*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
**A.R. ENGINEERING COLLEGE**  
VADAKUCHIPALAYAM,  
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VILLUPURAM-605 601.



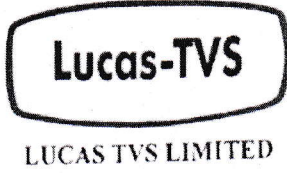
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**INTERNSHIP CERTIFICATE**

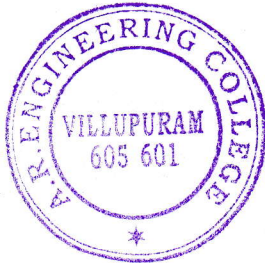
This is to certify that YUVARAJ. M, second year BE student in the department of Mechanical Engineering Studies, from A.R. Engineering College (AREC), Villupuram has undergone Summer Internship Training in our factory from 21.05.2023 to 27.05.2023.

Her performance was Very Good during the Internship period in our factory premises.

For Lucas — TVS Limited,

  
M. Arunkumar

Head - Human Resource

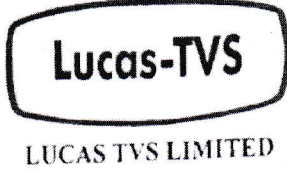


  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
**PRINCIPAL**  
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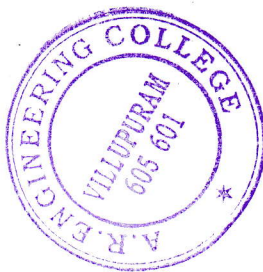
This is to certify that VINOTH KUMAR .S, second year BE student in the department of Mechanical Engineering Studies, from A.R. Engineering College (AREC), Villupuram has undergone Summer Internship Training in our factory from 21.05.2023 to 27.05.2023.

Her performance was Very Good during the Internship period in our factory premises.

For Lucas — TVS Limited,

M. Arunkumar

Head - Human Resource



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
**PRINCIPAL**  
**A.R. ENGINEERING COLLEGE**  
**VADAKUCHIPALAYAM,**  
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Fax: +91-44-28460631 Web: www.lucas-tvs.com







Date: 22.02.2023

## CERTIFICATE OF INPLANT TRAINING

This is to certify that Mr.VIGNESH.E student\_of\_Mechanical\_Engineering\_Department, A.R Engineering College ,Villupuram has undergone Inplant training in our organization from 11th Feb to 20th Feb 2023. The Project was on "Piping Engineering, Cooling Towers and Pressure Vessel with Diagrams " in L&T EDRC Chennai.

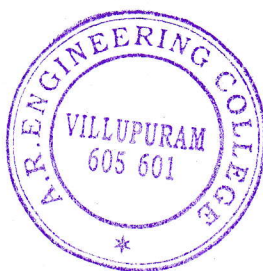
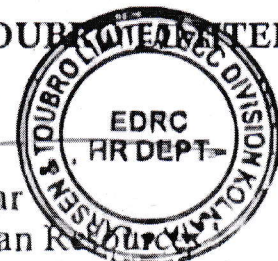
He has done an excellent job on his Project work and found to be very intelligent, hardworking and with a very positive approach.

We wish him every success in his future career.

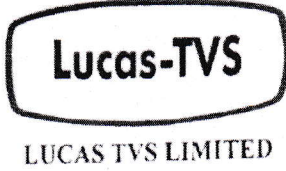
For LARSEN & TOUBRO LIMITED

*Debashish Karmakar*

Debashish Karmakar  
Sr. Manager - Human Resources  
Engineering Design & Research Centre  
MMH-IC-Kolkata



*Dr. R. Panneerdhass*  
Dr. R. PANNEERDHASS, M.E., Ph.D.,  
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Phone: 04132641905/04132641095

0413 2641906

### INTERNSHIP CERTIFICATE

This is to certify that VASANTHAVEL .K, second year BE student in the department of Mechanical Engineering Studies, from A.R. Engineering College (AREC), Villupuram has undergone Summer Internship Training in our factory from 21.05.2023 to 27.05.2023.

Her performance was Very Good during the Internship period in our factory premises.

For Lucas — TVS Limited,

*M. Arunkumar*  
27/05/2023

M. Arunkumar

Head - Human Resource



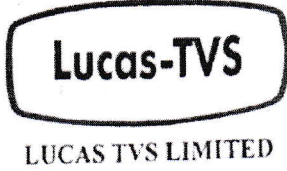
*[Signature]*  
**Dr.R.PANNEERDHASS,M.E.,Ph.D.,**  
PRINCIPAL  
A.R.ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
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0413 2641906

### INTERNSHIP CERTIFICATE

This is to certify that VEERAMANIKANDAN. G, First year BE student in the department of Mechanical Studies, from A.R. Engineering College (AREC), Villupuram has undergone Summer Internship Training in our factory from 21.05.2023 to 27.05.2023.

Her performance was Very Good during the Internship period in our factory premises.


We wish her all success in her future endeavours.

For Lucas — TVS Limited,

M. Arunkumar

Head - Human Resource

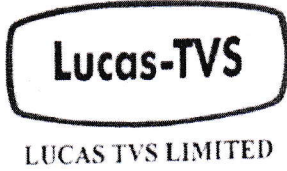


  
Dr. R. PANNEERDHASS, M.E., Ph.D.,  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR PO, C,  
VILLUPURAM-605 601.



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Fax: +91-44-28460631 Web: www.lucas-tvs.com





CIN: U35999TN1%1PLC004678

Factory: 10, Kothapurinatham Main Road.

Mannadipet Commune, Thiruvandarkoil,

Puducherry - 605 102. Mia.

Phone: 04132641905/04132641095


0413 2641906

**INTERNSHIP CERTIFICATE**

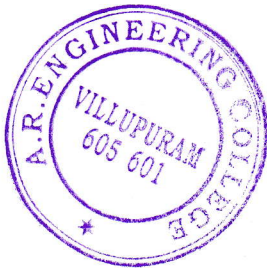
This is to certify that UTHAYAKUMAR .V First year BE student in the department of Mechanical Studies, from A.R. Engineering College (AREC), Villupuram has undergone Summer Internship Training in our factory from 21.05.2023 to 27.05.2023.


Her performance was Very Good during the Internship period in our factory premises.

For Lucas — TVS Limited,

  
M. Arunkumar

Head - Human Resource



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
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Date: 22.02.2023

## CERTIFICATE OF INPLANT TRAINING

This is to certify that Mr. UDHAYAKUMAR. S student\_of\_Mechanical\_Engineering Department, A.R Engineering College ,Villupuram has undergone Inplant training in our organization from 11th Feb to 20th Feb 2023. The Project was on "Piping Engineering, Cooling Towers and Pressure Vessel with Diagrams " in L&T EDRC Chennai.

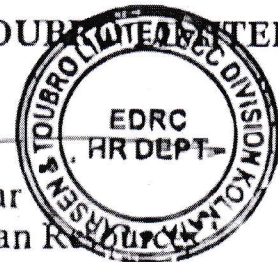
He has done an excellent job on his Project work and found to be very intelligent, hardworking and with a very positive approach.

We wish him every success in his future career.

For LARSEN & TOUBRO LIMITED

*Debashish Karmakar*

Debashish Karmakar  
Sr. Manager - Human Resources  
Engineering Design & Research Centre  
MMH-IC-Kolkata



*Dr. R. Panneerdhass*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
VILLUPURAM-605 601.



Date: 22.02.2023

## CERTIFICATE OF INPLANT TRAINING

This is to certify that **Mr. SIVALINGAM.** student of Mechanical Engineering Department, A.R Engineering College ,Villupuram has undergone Inplant training in our organization from 11th Feb to 20th Feb 2023. The Project was on "Piping Engineering, Cooling Towers and Pressure Vessel with Diagrams" in L&T EDRC Chennai.

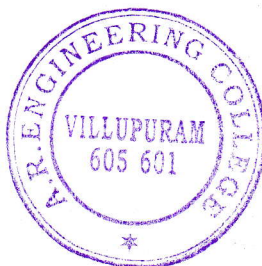
He has done an excellent job on his Project work and found to be very intelligent, hardworking and with a very positive approach.

We wish him every success in his future career.

For LARSEN & TOUBRO LIMITED

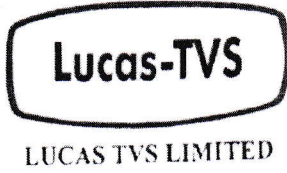
*Debashish Karmakar*

Debashish Karmakar  
Sr. Manager - Human Resources  
Engineering Design & Research Centre  
MMH-IC-Kolkata



*Dr. R. Pannerdhass*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
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CIN: U35999TN1%1PLC004678

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Puducherry - 605 102. Mia.

Phone: 04132641905/04132641095

0413 2641906

**INTERNSHIP CERTIFICATE**

This is to certify that SRIDHAR. M, second year BE student in the department of Mechanical Engineering Studies, from A.R. Engineering College (AREC), Villupuram has undergone Summer Internship Training in our factory from 21.05.2023 to 27.05.2023.

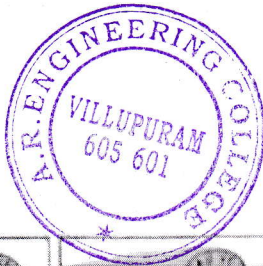
Her performance was Very Good during the Internship period in our factory premises.

For Lucas — TVS Limited,

*M. Arunkumar*  
27/05/2023

M. Arunkumar

Head - Human Resource



*Dr. R. Panneerdhass*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
**PRINCIPAL**  
**A.R. ENGINEERING COLLEGE**  
**VADAKUCHIPALAYAM**  
**KAPPIYAMPULIYUR P.O.,**  
**VILLUPURAM-605 601.**



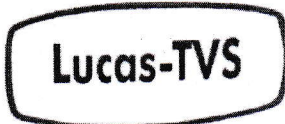
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Puducherry - 605 102. Mia.

Phone: 04132641905/04132641095

0413 2641906

**INTERNSHIP CERTIFICATE**

This is to certify that SURIYA. J, First year BE student in the department of Mechanical Studies, from A.R. Engineering College (AREC), Villupuram has undergone Summer Internship Training in our factory from 21.05.2023 to 27.05.2023.

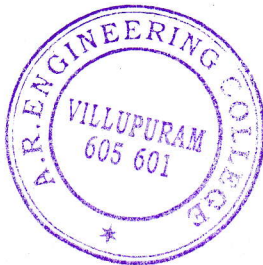
Her performance was Very Good during the Internship period in our factory premises.

For Lucas — TVS Limited,

*M. Arunkumar*  
27/05/2023

M. Arunkumar

Head - Human Resource



*Dr. R. Panneerdhass*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
**PRINCIPAL**  
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Date: 22.02.2023

## CERTIFICATE OF INPLANT TRAINING

This is to certify that Mr. SENTHILRAJA.K student\_of\_Mechanical\_Engineering Department, A.R Engineering College, and Villupuram has undergone Inplant training in our organization from 11th Feb to 20th Feb 2023. The Project was on "Piping Engineering, Cooling Towers and Pressure Vessel with Diagrams" in L&T EDRC Chennai.

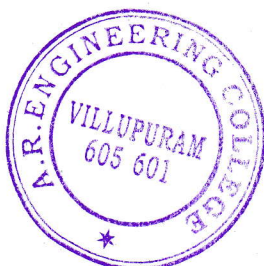
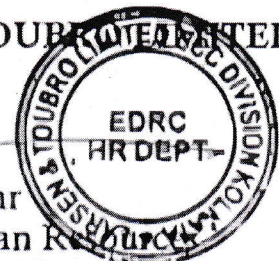
He has done an excellent job on his Project work and found to be very intelligent, hardworking and with a very positive approach.

We wish him every success in his future career.

For LARSEN & TOUBRO LIMITED

*Debashish Karmakar*

Debashish Karmakar  
Sr. Manager - Human Resources  
Engineering Design & Research Centre  
MMH-IC-Kolkata



*Dr. R. Panneerdhass*  
Dr. R. PANNEERDHASS, M.E., Ph.D.,  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
VILLUPURAM-605 601.



**L&T Construction**  
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Date: 22.02.2023

## CERTIFICATE OF INPLANT TRAINING

This is to certify that **Mr. MUTHUBALAN .M.** student of Mechanical Engineering Department, A.R Engineering College, and Villupuram has undergone Inplant training in our organization from 11th Feb to 20th Feb 2023. The Project was on "Piping Engineering, Cooling Towers and Pressure Vessel with Diagrams" in L&T EDRC Chennai.

He has done an excellent job on his Project work and found to be very intelligent, hardworking and with a very positive approach.

We wish him every success in his future career.

For LARSEN & TOUBRO LIMITED

*Debashish Karmakar*

Debashish Karmakar  
Sr. Manager - Human Resources  
Engineering Design & Research Centre  
MMH-IC-Kolkata



*Dr. R. Panneerdhass*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
VILLUPURAM-605 601.





**L&T Construction**  
Metallurgical & Material Handling

Date: 22.02.2023

## CERTIFICATE OF INPLANT TRAINING

This is to certify that **Mr. NAVEEN. R** student\_of\_Mechanical\_Engineering\_Department, A.R Engineering College, and Villupuram has undergone Inplant training in our organization from 11th Feb to 20th Feb 2023. The Project was on "Piping Engineering, Cooling Towers and Pressure Vessel with Diagrams" in L&T EDRC Chennai.

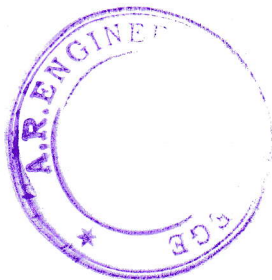
He has done an excellent job on his Project work and found to be very intelligent, hardworking and with a very positive approach.

We wish him every success in his future career.

For LARSEN & TOUBRO LIMITED

*Debashish Karmakar*

Debashish Karmakar  
Sr. Manager - Human Resources  
Engineering Design & Research Centre  
MMH-IC-Kolkata



*Dr. R. Panneerdhass*

**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
VILLUPURAM-605 601.



**L&T Construction**  
Metallurgical & Material Handling

Date: 22.02.2023

## CERTIFICATE OF INPLANT TRAINING

This is to certify that Mr. PARAMASIVAM. V student\_of\_Mechanical\_Engineering Department, A.R Engineering College, Villupuram has undergone Inplant training in our organization from 11th Feb to 20th Feb 2023. The Project was on "Piping Engineering, Cooling Towers and Pressure Vessel with Diagrams" in L&T EDRC Chennai.

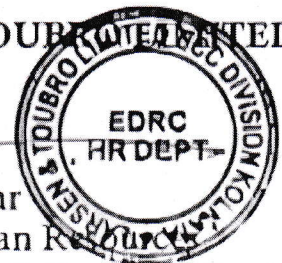
He has done an excellent job on his Project work and found to be very intelligent, hardworking and with a very positive approach.

We wish him every success in his future career.

For LARSEN & TOUBRO LIMITED

*Debashish Karmakar*

Debashish Karmakar  
Sr. Manager - Human Resources  
Engineering Design & Research Centre  
MMH-IC-Kolkata



*Dr. R. Panneerdhass*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
VILLUPURAM-605 604.





**L&T Construction**  
Metallurgical & Material Handling

Date: 22.02.2023

## CERTIFICATE OF INPLANT TRAINING

This is to certify that **Mr. PRAVEEN.P** student of Mechanical Engineering Department, A.R Engineering College, Villupuram has undergone Inplant training in our organization from 11th Feb to 20th Feb 2023. The Project was on "Piping Engineering, Cooling Towers and Pressure Vessel with Diagrams" in L&T EDRC Chennai.

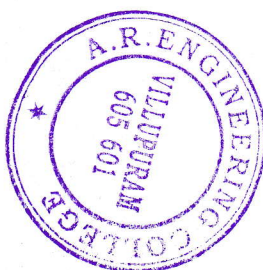
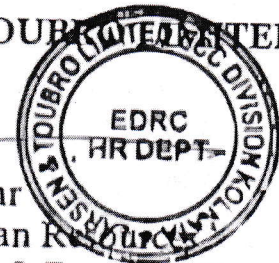
He has done an excellent job on his Project work and found to be very intelligent, hardworking and with a very positive approach.

We wish him every success in his future career.

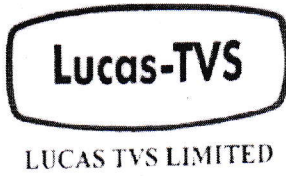
For LARSEN & TOUBRO LIMITED

*Debashish Karmakar*

Debashish Karmakar  
Sr. Manager - Human Resources  
Engineering Design & Research Centre  
MMH-IC-Kolkata



*Panneerdhass*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
VILLUPURAM-605 601.



CIN: U35999TN1%1PLC004678

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Puducherry - 605 102. Mia.

Phone: 04132641905/04132641095  
0413 2641906

### INTERNSHIP CERTIFICATE

This is to certify that PUNNIYANATHAN.R, First year BE student in the department of Mechanical Engineering Studies, from A.R. Engineering College (AREC), Villupuram has undergone Summer Internship Training in our factory from 21.05.2023 to 27.05.2023.

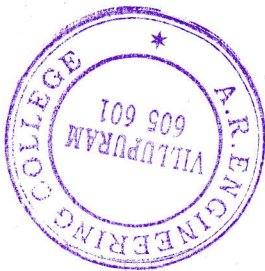
Her performance was Very Good during the Internship period in our factory premises.

For Lucas — TVS Limited,

*M. Arunkumar*  
27/05/2023

M. Arunkumar

Head - Human Resource

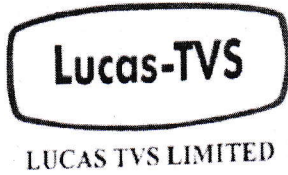


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*Dr. R. Pannerdhass*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
**PRINCIPAL**  
**A.R. ENGINEERING COLLEGE**  
**VADAKUCHIPALAYAM,**  
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Puducherry - 605 102. Mia.

Phone: 04132641905/04132641095  
0413 2641906

### INTERNSHIP CERTIFICATE

This is to certify that RAJESH .V, First year BE student in the department of Mechanical Engineering Studies, from A.R. Engineering College (AREC), Villupuram has undergone Summer Internship Training in our factory from 21.05.2023 to 27.05.2023.

Her performance was Very Good during the Internship period in our factory premises.

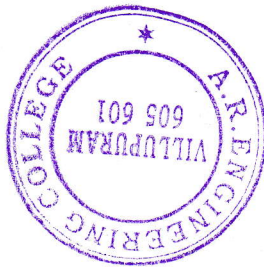
We wish her all success in her future endeavours.

For Lucas — TVS Limited,

*M. Arunkumar*  
27/05/2023

M. Arunkumar

Head - Human Resource

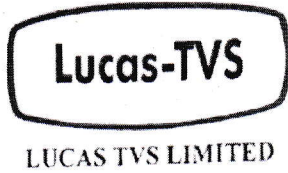


*Dr. R. Panneerdhass*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
**PRINCIPAL**  
**A.R. ENGINEERING COLLEGE**  
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**KAPPIYAMPULIYUR POST,**  
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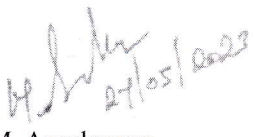
0413 2641906

### INTERNSHIP CERTIFICATE

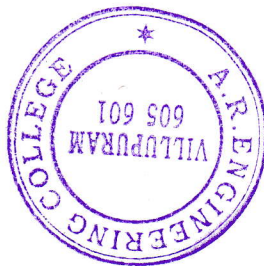
This is to certify that S.SANTHOSH, First year BE student in the department of Mechanical Studies, from A.R. Engineering College (AREC), Villupuram has undergone Summer Internship Training in our factory from 21.05.2023 to 27.05.2023.

Her performance was Very Good during the Internship period in our factory premises.

For Lucas — TVS Limited,

  
M. Arunkumar

Head - Human Resource



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KODIYAMPULIYUR POST,  
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**L&T Construction**  
Metallurgical & Material Handling

Date: 22.02.2023

## CERTIFICATE OF INPLANT TRAINING

This is to certify that Mr. KARUNAKARAN.G student\_of\_Mechanical\_Engineering Department, A.R Engineering College ,Villupuram has undergone Inplant training in our organization from 11th Feb to 20th Feb 2023. The Project was on "Piping Engineering, Cooling Towers and Pressure Vessel with Diagrams " in L&T EDRC chennai.

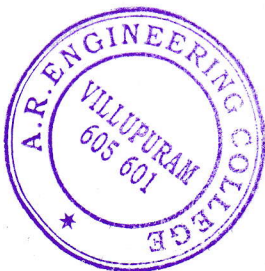
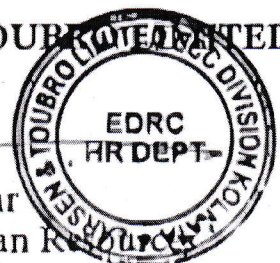
He has done an excellent job on his Project work and found to be very intelligent, hardworking and with a very positive approach.

We wish him every success in his future career.

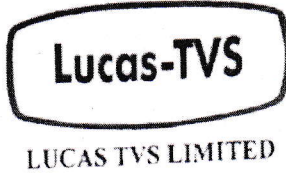
For LARSEN & TOUBRO LIMITED

*Debashish Karmakar*

Debashish Karmakar  
Sr. Manager - Human Resources  
Engineering Design & Research Centre  
MMH-IC-Kolkata



*Dr. R. Panneerdhass*  
Dr. R. PANNEERDHASS, M.E., Ph.D.,  
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Puducherry - 605 102. Mia.

Phone: 04132641905/04132641095

0413 2641906

**INTERNSHIP CERTIFICATE**

This is to certify that DINESH. R, second year BE student in the department of Mechanical Engineering Studies, from A.R. Engineering College (AREC), Villupuram has undergone Summer Internship Training in our factory from 21.05.2023 to 27.05.2023.

Her performance was Very Good during the Internship period in our factory premises.

For Lucas — TVS Limited,

*M. Arunkumar*  
27/05/2023

M. Arunkumar

Head - Human Resource



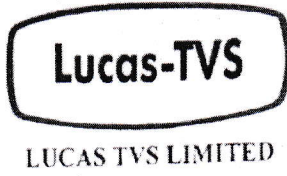
*[Signature]*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
**PRINCIPAL**  
**A.R. ENGINEERING COLLEGE**  
**VADAKUCHIPALAYAM,**  
**KAPPIYAMPULIYUR POST,**  
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Puducherry - 605 102. Mia.

Phone: 04132641905/04132641095

0413 2641906

### INTERNSHIP CERTIFICATE

This is to certify that DILIPRAJ. V, second year BE student in the department of Mechanical Engineering Studies, from A.R. Engineering College (AREC), Villupuram has undergone Summer Internship Training in our factory from 21.05.2023 to 27.05.2023.

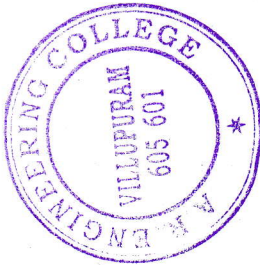
Her performance was Very Good during the Internship period in our factory premises.

For Lucas — TVS Limited,

*M. Arunkumar*  
27/05/2023

M. Arunkumar

Head - Human Resource



*Dr. R. Panneerdhass*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
**PRINCIPAL**  
**A.R. ENGINEERING COLLEGE**  
**VADAKUCHIPALAYAM.**  
**KAPPIYAMPULIYUR POST,**  
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**L&T Construction**  
Metallurgical & Material Handling

Date: 22.02.2023

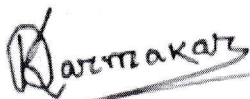
## CERTIFICATE OF INPLANT TRAINING

This is to certify that **Mr.T.DHANRAJ** student\_of\_Mechanical\_Engineering\_Department, A.R Engineering College ,Villupuram has undergone Inplant training in our organization from 11th Feb to 20th Feb 2023. The Project was on "Piping Engineering, Cooling Towers and Pressure Vessel with Diagrams " in L&T EDRC chennai.

He has done an excellent job on his Project work and found to be very intelligent, hardworking and with a very positive approach.


We wish him every success in his future career.

For LARSEN & TOUBRO LIMITED



Debashish Karmakar  
Sr. Manager - Human Resources  
Engineering Design & Research Centre  
MMH-IC- CHENNAI



  
**Dr.R.PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM  
VILLUPURAM DISTRICT  
TAMIL NADU - 605 601.





**L&T Construction**  
Metallurgical & Material Handling

Date: 22.02.2023

## CERTIFICATE OF INPLANT TRAINING

This is to certify that Mr. S. CHANDRU student of Mechanical Engineering Department, A.R Engineering College, Villupuram has undergone Inplant training in our organization from 11th Feb to 20th Feb 2023. The Project was on "Piping Engineering, Cooling Towers and Pressure Vessel with Diagrams in L&T EDRC chennai.

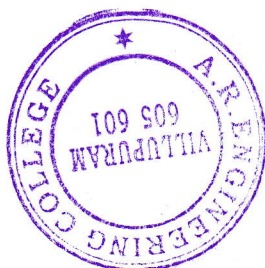
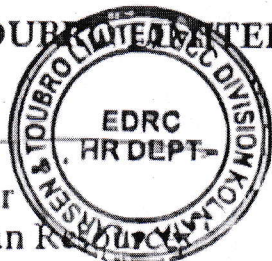
He has done an excellent job on his Project work and found to be very intelligent, hardworking and with a very positive approach.

We wish him every success in his future career.

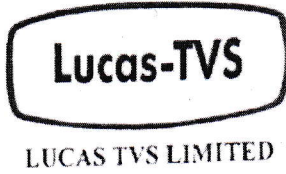
For LARSEN & TOUBRO LIMITED

*Debashish Karmakar*

Debashish Karmakar  
Sr. Manager - Human Resources  
Engineering Design & Research Centre  
MMH-IC- CHENNAI



*Dr. R. Panneerdhass*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
VILLUPURAM-605 601.



CIN: U35999TN1%1PLC004678

Factory: 10, Kothapurinatham Main Road.

Mannadipet Commune, Thiruvandarkoil,

Puducherry - 605 102. Mia.

Phone: 04132641905/04132641095

0413 2641906

### INTERNSHIP CERTIFICATE

This is to certify that CHANDRU. C, second year BE student in the department of Mechanical Engineering Studies, from A.R. Engineering College (AREC), Villupuram has undergone Summer Internship Training in our factory from 21.05.2023 to 27.05.2023.

Her performance was Very Good during the Internship period in our factory premises.

For Lucas — TVS Limited,

*M. Arunkumar*  
27/05/2023

M. Arunkumar

Head - Human Resource



*Dr. R. Panneerdhass*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
**PRINCIPAL**  
**A.R. ENGINEERING COLLEGE**  
**VADAKUCHIPALAYAM,**  
**KADIVAYALUR POST,**  
**VILLUPURAM 605 601.**



Regd. & Corp. Office .

11 & 13, Panallos Road, Chennai-600002, TN, India.

Tel : +91-44-28460063 / 28460073

Fax : +91-44-28460631 Web : [www.lucas-tvs.com](http://www.lucas-tvs.com)







**L&T Construction**  
Metallurgical & Material Handling

DATE:22.02.2023:

## CERTIFICATE OF INPLANT TRAINING

This is to certify that Mr. M. BOSE student of Mechanical Engineering Department, A.R Engineering College, Villupuram has undergone Inplant training in our organization from 11th Feb to 20th Feb 2023. The Project was on "Piping Engineering, Cooling Towers and Pressure Vessel with Diagrams" in L&T EDRC Chennai.

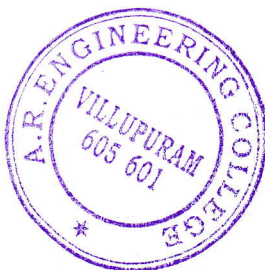
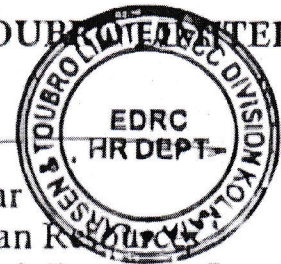
He has done an excellent job on his Project work and found to be very intelligent, hardworking and with a very positive approach.

We wish him every success in his future career.

For LARSEN & TOUBRO LIMITED

*Debashish Karmakar*

Debashish Karmakar  
Sr. Manager - Human Resources  
Engineering Design & Research Centre  
MMH-IC-Kolkata



*Dr. R. Panneerdhass*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL

**A.R. ENGINEERING COLLEGE**  
VADAKUCHALAYAM,  
MADHURAI POST,  
VILLUPURAM 605 601.



DATE:22.02.2023

## CERTIFICATE OF INPLANT TRAINING

This is to certify that **Mr.E. AJITH** student\_of\_Mechanical\_Engineering\_Department, A.R Engineering College ,Villupuram has undergone Inplant training in our organization from 11th Feb to 20th Feb 2023. The Project was on "Piping Engineering, Cooling Towers and Pressure Vessel with Diagrams " in L&T EDRC chennai.

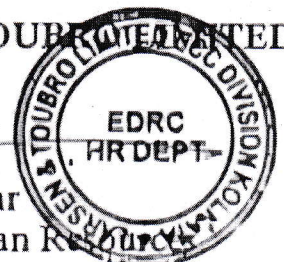
He has done an excellent job on his Project work and found to be very intelligent, hardworking and with a very positive approach.

We wish him every success in his future career.

For LARSEN & TOUBRO LIMITED

*Debashish Karmakar*

Debashish Karmakar  
Sr. Manager - Human Resources  
Engineering Design & Research Centre  
MMH-IC-Kolkata



*[Signature]*  
**Dr.R.PANNEERDHASS,M.E.,Ph.D.,**  
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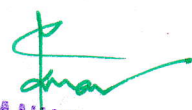
**27<sup>th</sup> Feb 2023**

Date

*Debidutta M*

Program Head



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
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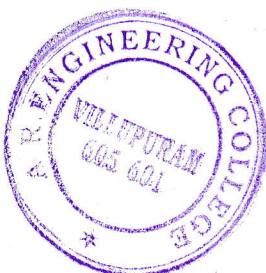
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**27<sup>th</sup> Feb 2023**

Date

*Debidutta M*

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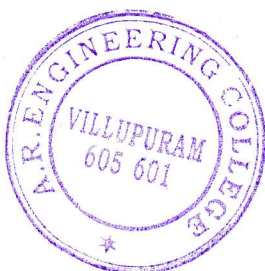
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**27<sup>th</sup> Feb 2023**

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Program Head



*[Signature]*  
**Dr. R. PANNEERDHASS** M.F. Ph.D.,  
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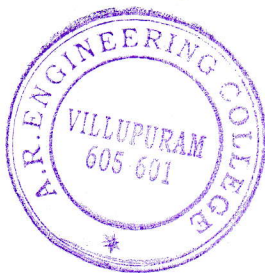
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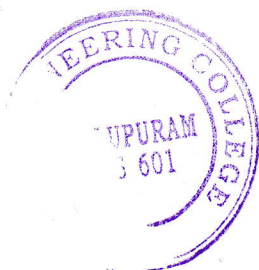
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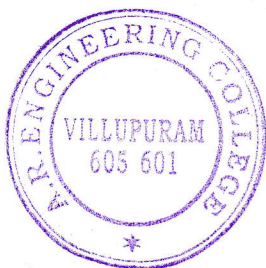
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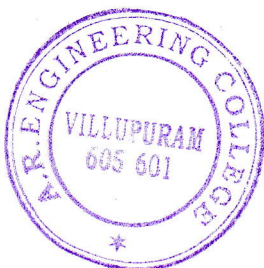
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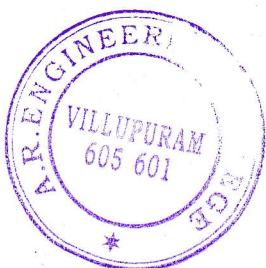
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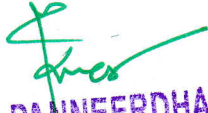
27<sup>th</sup> Feb 2023

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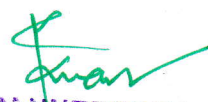
**27<sup>th</sup> Feb 2023**

Date

*Debidutta M*

Program Head



  
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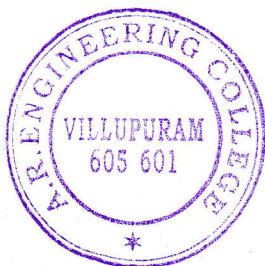
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*Debidutta M*

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## CERTIFICATE OF ATTENDANCE

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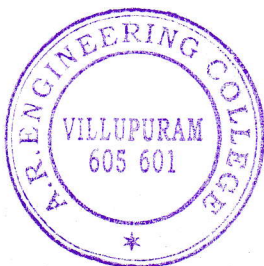
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27<sup>th</sup> Feb 2023

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*Debidutta M.*

Program Head



  
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# CERTIFICATE OF ATTENDANCE

This certificate is proudly presented to

**Gomathi. T**

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*Debidutta M.*

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Program Head



  
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## CERTIFICATE OF ATTENDANCE

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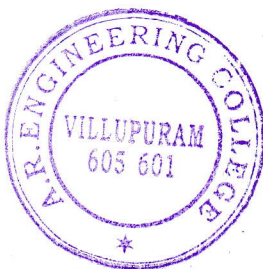
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Program Head



  
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for attending

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Program Head



  
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**VADAKUCHIPALAYAM,**  
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**Bhuvaneswaran. S**

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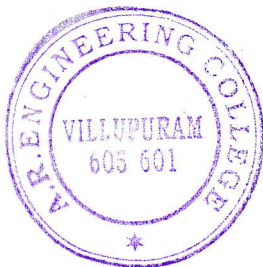
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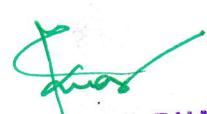
**27<sup>th</sup> Feb 2023**

Date

*Debidutta M*

Program Head



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
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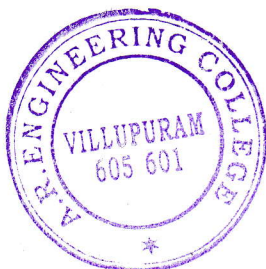
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Date

*Debidutta M*

Program Head



*[Signature]*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
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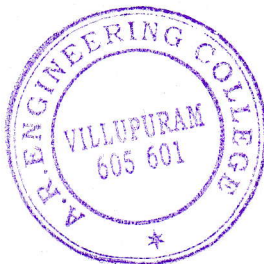
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Date

*Debidutta M.*

Program Head



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
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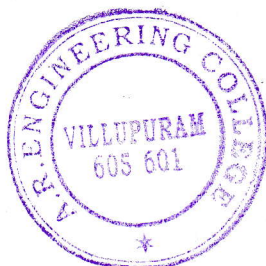
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Date

*Debidutta M*

Program Head



  
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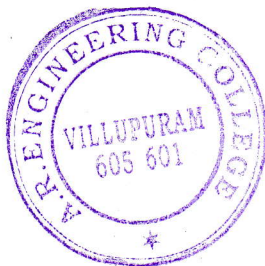
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Date

*Debidutta M*

Program Head



  
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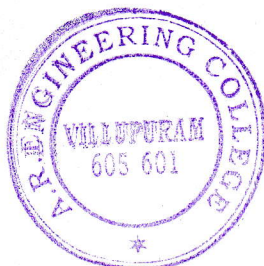
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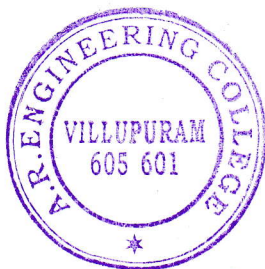
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VILLUPURAM-605 601.

**CERTIFICATE FOR INDUSTRIAL**  
**IN-PLANT**  
**TRAINING IN TELECOM**

*This is to certify that Mr./Ms. **ARIRAJ. H***  
*student of **A.R.ENGINEERING COLLEGE** has successfully completed*  
*Industrial in-plant training of 4 'Week' 6 week' 8 months on 'TELECOM TECHNOLOGIES' in*  
*bsnl Telecom District, Cuddalore.*

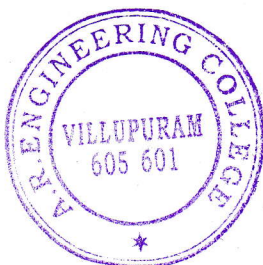
*Miss / Mr Performance during this training has been*

✓ *(Excellent / Very Good / good)*

*"BSNL." wishes him / her all the best for a bright future.*

Place: cuddalore


Date : 22/06/2023



  
Deputy General Manager

General Manager Telecom District,  
cuddalore.

[www.ap.bsnl.co.in](http://www.ap.bsnl.co.in)

  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A R. ENGINEERING COLLEGE  
VILLUPURAM,  
TAMIL NADU - 605 601.



**CERTIFICATE FOR INDUSTRIAL**  
**IN-PLANT**  
**TRAINING IN TELECOM**

This is to certify that Mr./Ms. KAVIYA.K

student of AREC has successfully completed  
Industrial in-plant training of 4 'Week' 6 week' 8 months on 'TELECOM TECHNOLOGIES' in  
bsnl Telecom District, Cuddalore.

Miss / Mr Performance during this training has been

✓ (Excellent / Very Good / good)

"BSNL." wishes him / her all the best for a bright future.

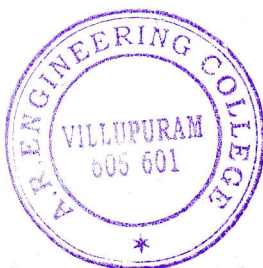
Place: cuddalore


Date : 22/06/2023

  
Deputy General Manager

General Manager Telecom District,  
cuddalore.

[www.ap.bsnl.co.in](http://www.ap.bsnl.co.in)



  
Dr. R. PANNEERDHASS, M.E., Ph.D.,  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
VILLUPURAM-605 601.

**CERTIFICATE FOR INDUSTRIAL**  
**IN-PLANT**  
**TRAINING IN TELECOM**

*This is to certify that Mr./Ms. JAYASATHYA.R*

*student of AREC has successfully completed*  
*Industrial in-plant training of 4 'Week' 6 week' 8 months on 'TELECOM TECHNOLOGIES' in*  
*bsnl Telecom District, Cuddalore.*

*Miss / Mr Performance during this training has been*

*✓ (Excellent / Very Good / good)*

*"BSNL." wishes him / her all the best for a bright future.*

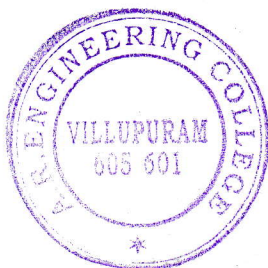
Place: cuddalore

Date : 22/06/2023

  
Deputy General Manager

General Manager Telecom District,  
cuddalore.

[www.ap.bsnl.co.in](http://www.ap.bsnl.co.in)



  
Dr. R. PANNEERDHASS, M.E., Ph.D.,  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIVUR POST,  
VILLUPURAM-605 601.



**CERTIFICATE FOR INDUSTRIAL**  
**IN-PLANT**  
**TRAINING IN TELECOM**

This is to certify that Mr./Ms. JAYABHARATHI.G

student of AREC has successfully completed  
Industrial in-plant training of 4 'Week' 6 week' 8 months on 'TELECOM TECHNOLOGIES' in  
bsnl Telecom District, Cuddalore.

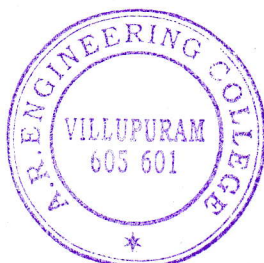
Miss / Mr Performance during this training has been

✓ (Excellent / Very Good / good)

"BSNL" wishes him / her all the best for a bright future.


Place: cuddalore

Date : 22/06/2023



  
Deputy General Manager

General Manager Telecom District,  
cuddalore.

  
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Dr. R. PANNEERDHASS, M.E., Ph.D.,  
PRINCIPAL  
A R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM  
VILLUPURAM  
605 601

**CERTIFICATE FOR INDUSTRIAL**  
**IN-PLANT**  
**TRAINING IN TELECOM**

This is to certify that Mr./Ms. ELAKKYADHASAN.S

student of AREC has successfully completed  
Industrial in-plant training of 4 'Week' 6 week' 8 months on 'TELECOM TECHNOLOGIES' in  
bsnl Telecom District, Cuddalore.

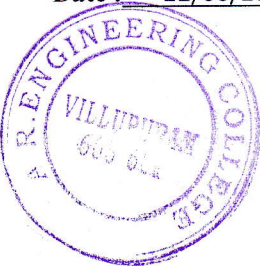
Miss / Mr Performance during this training has been

✓ (Excellent / Very Good / good)

"BSNL." wishes him / her all the best for a bright future.

Place: cuddalore


Date : 22/06/2023



  
Deputy General Manager

General Manager Telecom District,  
cuddalore.

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Dr. R. PANNEERDHASS, M.E., Ph.D.,  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
VILLUPURAM-605 006.



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## CERTIFICATE OF ATTENDANCE

This certificate is proudly presented to

**Gopinath. S**

for attending

DataScienceandMachineLearningInternshipProgram

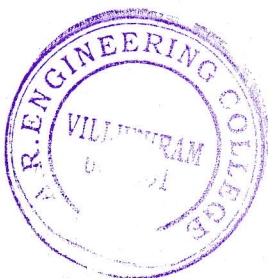
Demo Session organized by Edureka

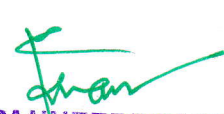
**27<sup>th</sup> Feb 2023**

Date

*Debidutta M*

Program Head



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR P.O.,  
VILLUPURAM-605 007.

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## CERTIFICATE OF ATTENDANCE

This certificate is proudly presented to

**Kaviya. V**

for attending

DataScienceandMachineLearningInternshipProgram

Demo Session organized by Edureka

**27<sup>th</sup> Feb 2023**

Date

*Debidutta M*

Program Head



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
VILLUPURAM-605 601.



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## CERTIFICATE OF ATTENDANCE

This certificate is proudly presented to

**Karthikeyan. G**

for attending

DataScienceandMachineLearningInternshipProgram

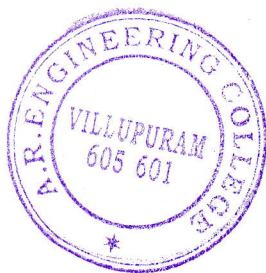
Demo Session organized by Edureka


**27<sup>th</sup> Feb 2023**

Date

*Debidutta M*

Program Head



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
VILLUPURAM-605 601.

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## CERTIFICATE OF ATTENDANCE

This certificate is proudly presented to

**Vijayalakshmi. S**

for attending

Data Science and Machine Learning Internship Program

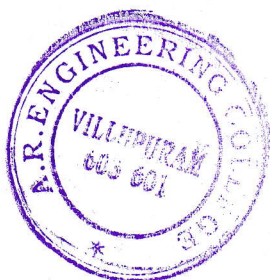
Demo Session organized by Edureka


27<sup>th</sup> Feb 2023

Date

Debidutta M

Program Head



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR C. T.,  
VILLUPURAM-605 601.



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## CERTIFICATE OF ATTENDANCE

This certificate is proudly presented to

**Kalayarasi. E**

for attending

Data Science and Machine Learning Internship Program

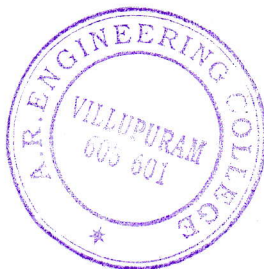
Demo Session organized by Edureka

**27<sup>th</sup> Feb 2023**

Date

*Debidutta M*

Program Head



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
VILLUPURAM-605 601.

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## CERTIFICATE OF ATTENDANCE

This certificate is proudly presented to

**Sugumarn. S**

for attending

DataScienceandMachineLearningInternshipProgram

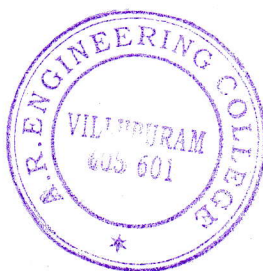
Demo Session organized by Edureka


**27<sup>th</sup> Feb 2023**

Date

*Debidutta M*

Program Head



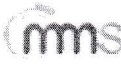
  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUTHIPALAYAM,  
KAPPIYAMPOTTUR POST,  
VILLUPURAM-605 601.



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{Technologies}

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## CERTIFICATE OF INTERNSHIP

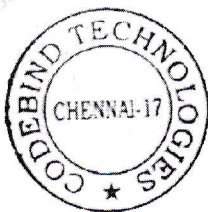
This certificate is awarded to, **VISHNU PRIYA. B** for the successful completion of Internship in Embedded systems at Code Bind Technologies, Chennai.

During the course of the internship **14/02/2023 TO 24/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavours.

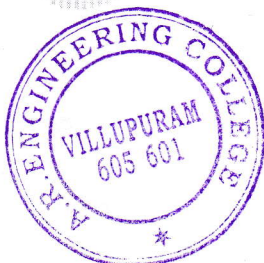
*C. V. K.*

Training Co-ordinator



*[Signature]*

Issuing Authority



*[Signature]*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM  
KADDIYAMPILLY  
VILLUPURAM



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{Technologies}

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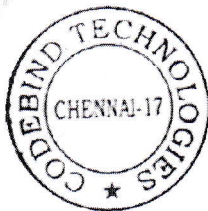
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to, **VASANTHARAJ .R** for the successful completion of Internship in Embedded systems at Code Bind Technologies, Chennai.

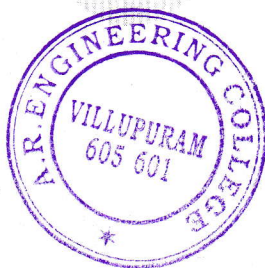
During the course of the internship **14/02/2023 TO 24/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.


We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavours.

  
Training Co-ordinator



  
Issuing Authority



  
**Dr.R.PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM  
KAPPIYAMPULIYUR  
VILLUPURAM





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{Technologies}

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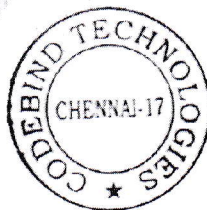
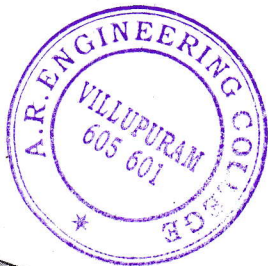
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to, **SURIYA. M** for the successful completion of Internship in Embedded systems at Code Bind Technologies, Chennai.

During the course of the internship **14/02/2023 TO 24/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavours.

Training Co-ordinator

  
Issuing Authority  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
VAMPULIYUR POST  
VILLUPURAM-605 601

**CERTIFICATE FOR INDUSTRIAL**  
**IN-PLANT**  
**TRAINING IN TELECOM**

*This is to certify that Mr./Ms.* **SUGANTHI. P**

*student of* **AREC** *has successfully completed*  
*Industrial in-plant training of 4 'Week' 6 week' 8 months on 'TELECOM TECHNOLOGIES' in*  
*bsnl Telecom District, Cuddalore.*

*Miss / Mr Performance during this training has been*

*✓ (Excellent / Very Good / good)*

*"BSNL." wishes him / her all the best for a bright future.*

Place: cuddalore

Date : 22/06/2023



  
Deputy General Manager

General Manager Telecom District,  
cuddalore.

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**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL

**A.R. ENGINEERING COLLEGE**  
**VADAKUCHIPALAI**  
**KADRIYAMPET**  
**VILLUPURAM**



**CERTIFICATE FOR INDUSTRIAL**  
**IN-PLANT**  
**TRAINING IN TELECOM**

This is to certify that Mr./Ms. **SRIDEVI. S**

student of **AREC** has successfully completed

Industrial in-plant training of 4 'Week' 6 week' 8 months on 'TELECOM TECHNOLOGIES' in  
bsnl Telecom District, Cuddalore.

Miss / Mr Performance during this training has been

✓ (Excellent / Very Good / good)

"BSNL." wishes him / her all the best for a bright future.

Place: cuddalore

Date : 22/06/2023

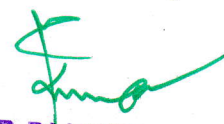


  
Deputy General Manager

General Manager Telecom District,

cuddalore.

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Dr. R. PANNEERDHASS, M.E., Ph.D.,  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KADRIYAMPILLY,  
VILLUPURAM-605 601.

# CERTIFICATE FOR INDUSTRIAL IN-PLANT TRAINING IN TELECOM

This is to certify that Mr./Ms. SOWNDARRAJ. D

student of AREC has successfully completed  
Industrial in-plant training of 4 'Week' 6 week' 8 months on 'TELECOM TECHNOLOGIES' in  
bsnl Telecom District Cuddalore.

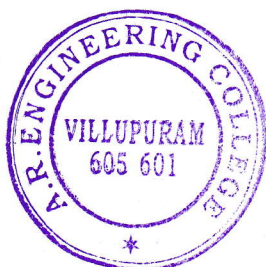
*Miss / Mr Performance during this training has been*

✓ (Excellent / Very Good / good)

*"BSNL" wishes him / her all the best for a bright future.*

**Place: cuddalore**

**Date :** 22/06/2023



*Deputy General Manager*

*General Manager Telecom District,  
cuddalore.*

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Dr.R.PANNEERDHASS, M.E., Ph.D.,  
PRINCIPAL

A.R.ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPRIYAMPULIYUR POST,  
S. LUFUKAM-605 601.



<codebind/>

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## CERTIFICATE OF INTERNSHIP

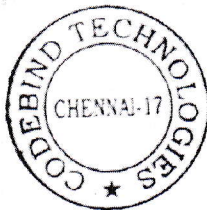
This certificate is awarded to **SABARI .S** For the successful completion of Internship in Embedded systems at Code Bind Technologies, Chennai.

During the course of the internship **14/02/2023 TO 24/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

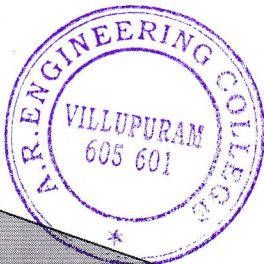
We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavours.

*C. V. K.*

Training Co-ordinator



*[Signature]*  
Issuing Authority



*[Signature]*  
**Dr.R.PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR  
VILLUPURAM



**CERTIFICATE FOR INDUSTRIAL**  
**IN-PLANT**  
**TRAINING IN TELECOM**

*This is to certify that Mr./Ms.* **PATCHAIAPPAN. M**

*student of* **AREC** *has successfully completed*

*Industrial in-plant training of 4 'Week' 6 week' 8 months on 'TELECOM TECHNOLOGIES' in*  
*bsnl Telecom District, Cuddalore.*

*Miss / Mr Performance during this training has been*

*✓ (Excellent / Very Good / good)*

*"BSNL." wishes him / her all the best for a bright future.*

Place: cuddalore

Date : 22/06/2023



*APL*  
Deputy General Manager

General Manager Telecom District,  
cuddalore.

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*[Signature]*  
**Dr.R.PANNEERDHASS, M.E., Ph.D.,**  
**PRINCIPAL**  
**A.R. ENGINEERING COLLEGE**  
**VADAKUCHIPALAYAM,**  
**KAPPIYAMPULIYUR POST,**  
**VILLUPURAM-605 601,**



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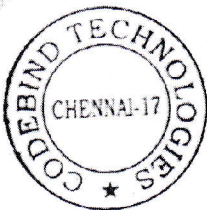
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to, **RAGUL. R** for the successful completion of Internship in Embedded systems at Code Bind Technologies, Chennai.

During the course of the internship **14/02/2023 TO 24/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.


We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavours.

Training Co-ordinator



Issuing Authority



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM  
KAPPIYAMPULIYUR  
VILLUPURAM



**CERTIFICATE FOR INDUSTRIAL**  
**IN-PLANT**  
**TRAINING IN TELECOM**

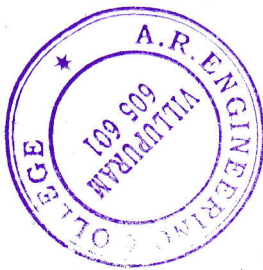
This is to certify that Mr./Ms. **NANDHAKUMAR. N**


student of **AREC** has successfully completed  
Industrial in-plant training of 4 'Week' 6 week' 8 months on 'TELECOM TECHNOLOGIES' in  
bsnl Telecom District, Cuddalore.

Miss / Mr Performance during this training has been

✓ (Excellent / Very Good / good)

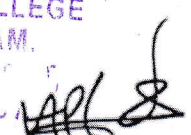
"BSNL" wishes him / her all the best for a bright future.



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
**PRINCIPAL**  
**A.R. ENGINEERING COLLEGE**  
**VADAKUCHIPALAYAM,**  
**KAPPIYAMPULIYUR**  
**VILLUPURAM-605 005**

Place: cuddalore

Date : 22/06/2023

  
Deputy General Manager  
General Manager Telecom District,  
cuddalore.

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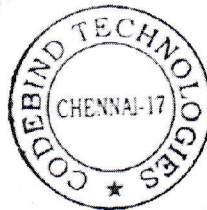
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to, **MOHAMED IMTHIYAS .E** for the successful completion of Internship in Embedded systems at Code Bind Technologies, Chennai.

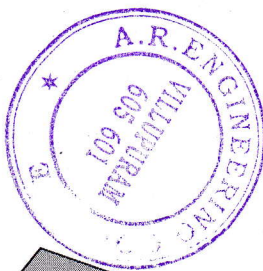
During the course of the internship **14/02/2023 TO 24/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.


We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavours.

  
Training Co-ordinator



  
Issuing Authority



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
VILLUPURAM

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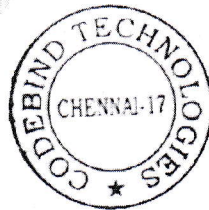
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to, KARTHIKA.R for the successful completion of Internship in Embedded systems at Code Bind Technologies, Chennai.

During the course of the internship **14/02/2023 TO 24/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.


We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavours.

  
Training Co-ordinator



  
Issuing Authority



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST  
VILLUPURAM





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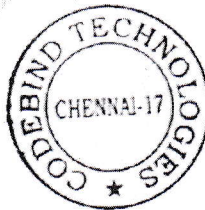
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to, for the **JAYAVEL .S** successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

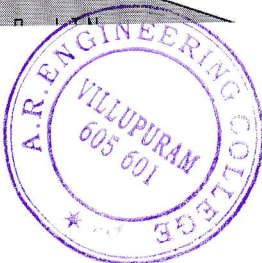
During the course of the internship **14/02/2023 TO 24/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

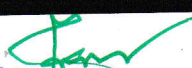
We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavours.

  
Training Co-ordinator



  
Issuing Authority



  
**D.R. PANNEERDHASSAN, M.E., P.R.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR PO,  
VILLUPURAM-605 601.

<codebind/>  
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## CERTIFICATE OF INTERNSHIP

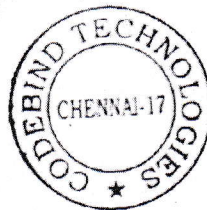
This certificate is awarded to, **KALAI STALIN MARAN M** for the successful completion of Internship in Embedded systems at Code Bind Technologies, Chennai.

During the course of the internship **14/02/2023 TO 24/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

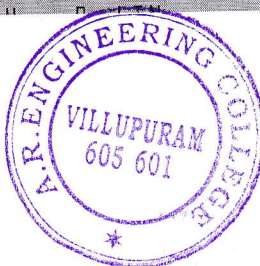
We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavours.

*C. K.*

Training Co-ordinator



*[Signature]*  
Issuing Authority



*[Signature]*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KADDIYAMPULIYUR POST,  
VILLUPURAM-605 601.



**CERTIFICATE FOR INDUSTRIAL**  
**IN-PLANT**  
**TRAINING IN TELECOM**

This is to certify that Mr./Ms. **DINESH. G**

student of **AREC** has successfully completed  
Industrial in-plant training of 4 'Week' 6 week' 8 months on 'TELECOM TECHNOLOGIES' in  
bsnl Telecom District, Cuddalore.

Miss / Mr Performance during this training has been

✓ (Excellent / Very Good / good)

"BSNL" wishes him / her all the best for a bright future.

Place: cuddalore

Date : 22/06/2023



  
Deputy General Manager

General Manager Telecom District,  
cuddalore.

[www.ap.bsnl.co.in](http://www.ap.bsnl.co.in)

  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
IMPULIYUR POST,  
GRAM-605 601.

**CERTIFICATE FOR INDUSTRIAL**  
**IN-PLANT**  
**TRAINING IN TELECOM**

This is to certify that Mr./Ms. **DHILIPKUMAR. S**

student of **AREC** has successfully completed  
Industrial in-plant training of 4 'Week' 6 week' 8 months on 'TELECOM TECHNOLOGIES' in  
bsnl Telecom District, Cuddalore.

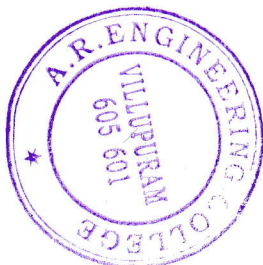
Miss / Mr Performance during this training has been

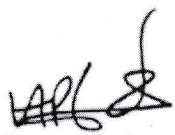
✓ (Excellent / Very Good / good)

"BSNL." wishes him / her all the best for a bright future.

Place: cuddalore


Date : 22/06/2023



  
Deputy General Manager

General Manager Telecom District,  
cuddalore.

[www.ap.bsnl.co.in](http://www.ap.bsnl.co.in)

  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
VILLUPURAM-605 601.



**CERTIFICATE FOR INDUSTRIAL**  
**IN-PLANT**  
**TRAINING IN TELECOM**

This is to certify that Mr./Ms. ARUL JOTHY.A

student of A.R.ENGINEERING COLLEGE has successfully completed  
Industrial in-plant training of 4 'Week' 6 week' 8 months on 'TELECOM TECHNOLOGIES' in  
bsnl Telecom District, Cuddalore.

*Miss / Mr Performance during this training has been*

✓ (Excellent / Very Good / good)

"BSNL." wishes him / her all the best for a bright future.

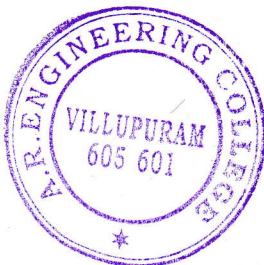
Place: cuddalore

Date : 22/06/2023

  
Deputy General Manager

General Manager Telecom District,  
cuddalore.

[www.ap.bsnl.co.in](http://www.ap.bsnl.co.in)



  
**Dr.R.PANNEERDHASS, M.E., Ph.D.**  
PRINCIPAL  
A.R.ENGINEERING COLLEGE  
VADAKUCHIPALAYAM  
KAPPAAMPULIYUR PO  
VILLUPURAM-605 601.

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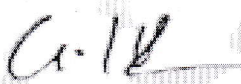


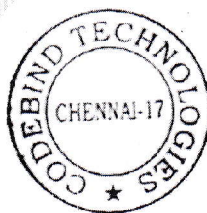
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to, for **BHARATHI. S** successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

During the course of the internship **14/02/2023 TO 24/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.


We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavours.

  
Training Co-ordinator



  
Issuing Authority



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
VILLUPURAM





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## CERTIFICATE OF INTERNSHIP

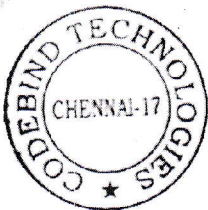
This certificate is awarded to, for **BHARATHI. S** successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

During the course of the internship **14/02/2023 TO 24/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavours.

*C. V. K.*

Training Co-ordinator



*[Signature]*

Issuing Authority



*[Signature]*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
VILLUPURAM



**CERTIFICATE FOR INDUSTRIAL**  
**IN-PLANT**  
**TRAINING IN TELECOM**

This is to certify that Mr./Ms. **GANAPATHY. I**

student of **AREC** has successfully completed

Industrial in-plant training of 4 'Week' 6 week' 8 months on 'TELECOM TECHNOLOGIES' in  
bsnl Telecom District, Cuddalore.

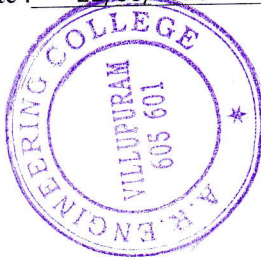
Miss / Mr Performance during this training has been

✓ (Excellent / Very Good / good)

"BSNL" wishes him / her all the best for a bright future.


Place: cuddalore

Date : 22/06/2023



  
Deputy General Manager

General Manager Telecom District,  
cuddalore.

  
Dr. R. PANNEERDHASS, M.E., Ph.D.,  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
PULIYUR POST,  
VILLUPURAM-605 601.

[www.ap.bsnl.co.in](http://www.ap.bsnl.co.in)



**CERTIFICATE FOR INDUSTRIAL**  
**IN-PLANT**  
**TRAINING IN TELECOM**

*This is to certify that Mr./Ms. R.VISHWA*

*student of A.R.Engineering college,VILLUPURAM has successfully completed*  
*Industrial in-plant training of 4 'Week' 6 week' 8 months on 'TELECOM TECHNOLOGIES' in*  
*bsnl Telecom District, Guntur.*

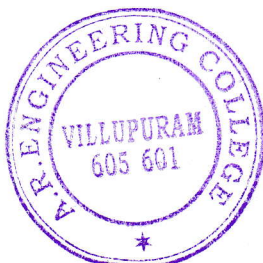
*Miss / Mr Performance during this training has been*

*✓ (Excellent / Very Good / good)*

*"BSNL." wishes him / her all the best for a bright future.*

Place: cuddalore

Date : 22/02/2023



*[Signature]*  
Deputy General Manager

General Manager Telecom District,  
cuddalore.

*[Signature]*  
Dr. R. PANNEERDHASS, M.E., Ph.D.,  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
VILLUPURAM-605 601.  
[www.ap.bsnl.co.in](http://www.ap.bsnl.co.in)

**CERTIFICATE FOR INDUSTRIAL**  
**IN-PLANT**  
**TRAINING IN TELECOM**

*This is to certify that Mr./Ms.* VIJAY CHANDRAN.M

*student of* A.R.Engineering college,VILLUPURAM *has successfully completed*  
*Industrial in-plant training of 4 'Week' 6 week' 8 months on 'TELECOM TECHNOLOGIES' in*  
*bsnl Telecom District, Guntur.*

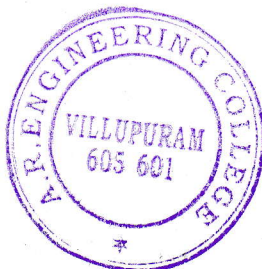
*Miss / Mr Performance during this training has been*

✓ *(Excellent / Very Good / good)*

*"BSNL" wishes him / her all the best for a bright future.*

Place: cuddalore

Date : 22/02/2023




  
Deputy General Manager

General Manager Telecom District,

cuddalore.

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Dr. R. PANNEERDHASS, M.E., Ph.D.,  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR P.O.,  
VILLUPURAM-605 601.



**CERTIFICATE FOR INDUSTRIAL**  
**IN-PLANT**  
**TRAINING IN TELECOM**

*This is to certify that Mr./Ms.* THAMIZHSELVAN. M

*student of* A.R.Engineering college,VILLUPURAM *has successfully completed*  
*Industrial in-plant training of 4 'Week' 6 week' 8 months on 'TELECOM TECHNOLOGIES' in*  
*bsnl Telecom District, Guntur.*

*Miss / Mr Performance during this training has been*

*✓ (Excellent / Very Good / good)*

*"BSNL." wishes him / her all the best for a bright future.*

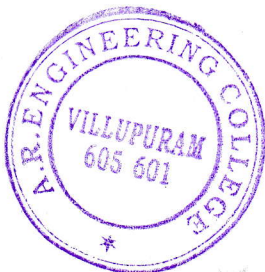
Place: cuddalore


Date : 22/02/2023

  
Deputy General Manager

General Manager Telecom District,  
cuddalore.

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Dr. R. PANNEERDHASS, M.E., Ph.D.,  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM  
K. PRIYAMPULIVUR P. T.,  
VILLUPURAM-605 601.

**CERTIFICATE FOR INDUSTRIAL**  
**IN-PLANT**  
**TRAINING IN TELECOM**

*This is to certify that Mr./Ms.* SURYA.A

*student of* A.R.Engineering college,VILLUPURAM *has successfully completed*  
*Industrial in-plant training of 4 'Week' 6 week' 8 months on 'TELECOM TECHNOLOGIES' in*  
*bsnl Telecom District, Guntur.*

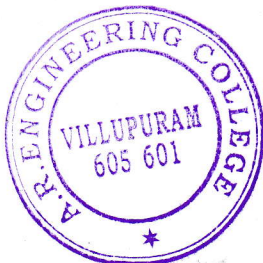
*Miss / Mr Performance during this training has been*

✓ *(Excellent / Very Good / good)*

*"BSNL." wishes him / her all the best for a bright future.*

Place: cuddalore

Date : 22/02/2023



*[Signature]*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
**PRINCIPAL**

**A.R. ENGINEERING COLLEGE**  
**VADAKUCHIPALAYAM,**  
**KAPPIYAMPULIYUR POST,**  
**VILLUPURAM-605 601.**

*[Signature]*  
**Deputy General Manager**

**General Manager Telecom District,**

**cuddalore.**

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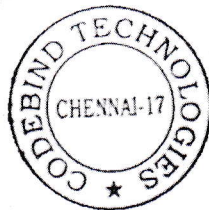
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **VIGNESH .I** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

During the course of the internship **07/02/2023 TO 14/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

  
Training Co-ordinator




  
Issuing Authority



  
107, Usman Road, T.Nagar,  
Chennai-17.

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**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM  
KAPPIYAMPULIYUR  
VILLUPURAM-605 001

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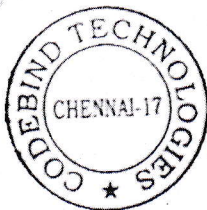
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to JAYAMUGILAN. M for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

During the course of the internship 07/02/2023 TO 14/02/2023, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.


We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

  
Training Co-ordinator



  
Issuing Authority



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR POST,  
VILLUPURAM

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Chennai-17.

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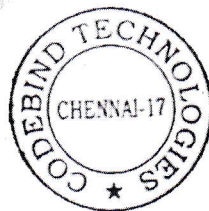
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **VAITHEESWARI .V** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

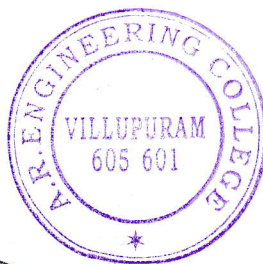
During the course of the internship **14/02/2023 TO 24/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

*C. V.*  
Training Co-ordinator



*[Signature]*  
Issuing Authority



*[Signature]*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL

**A.R. ENGINEERING COLLEGE**

VADAKKICHIPALAYAM,

KARAIYAMPALAYAM,

VILLUPURAM

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Chennai-17.

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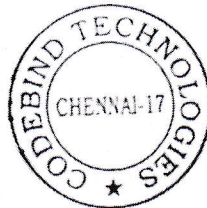
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **VENKATARAMANA. T** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

During the course of the internship **07/02/2023 TO 14/02/2023** , exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

*G. V.*  
Training Co-ordinator



*[Signature]*  
Issuing Authority



*[Signature]*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KADRIYAMPULIYUR, T.

107, Usman Road, T. Nagar,  
Chennai-17.

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{Technologies}

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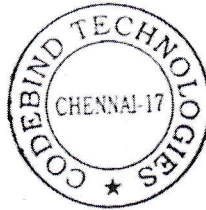
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **SIVANESHWAR. E** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai from 22d January 2024 to 3F January 2024.

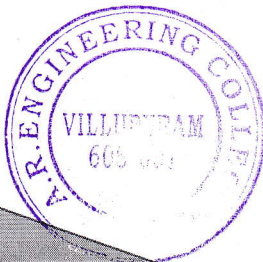
During the course of the internship **14/02/2023 TO 24/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

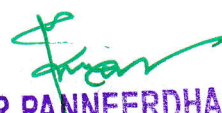
We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

  
Training Co-ordinator



  
Issuing Authority



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR ST,  
VILLUPURAM



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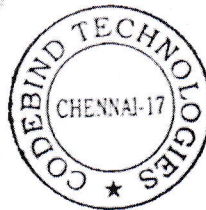
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **SUNDAR. S** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

During the course of the internship **07/02/2023 TO 14/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

*C. V.*  
**Training Co-ordinator**



*[Signature]*  
**Issuing Authority**

**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
**PRINCIPAL**

**A.R. ENGINEERING COLLEGE**  
**VADAKUCHIPALAYAM,**  
**KAPPIYAMPULIYUR POST,**  
**VILLUPURAM 605 601.**



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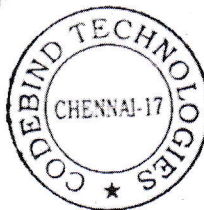
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **PURUSHOTHAMAN M** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

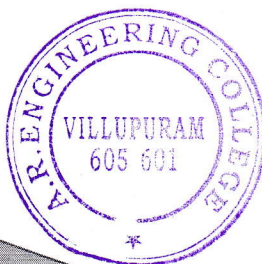
During the course of the internship **07/02/2023 TO 14/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.


We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

  
Training Co-ordinator



  
Issuing Authority



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM,  
KAPPIYAMPULIYUR EAST,  
VILLUPURAM

107, Usman Road, T. Nagar,  
Chennai-17.

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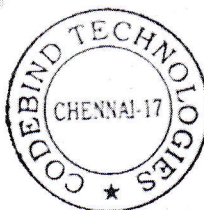
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to RAMESH KUMAR. R for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

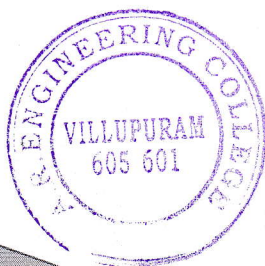
During the course of the internship 07/02/2023 TO 14/02/2023, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

  
Training Co-ordinator



  
Issuing Authority



  
Dr. R. PANNEERDHASS, M.E., Ph.D.,  
PRINCIPAL

A.R. ENGINEERING COLLEGE  
VADAKUCHIPALAYAM

107, Usman Road, T.Nagar,  
Chennai-17.

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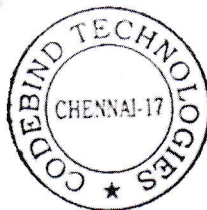
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **SATHISH. E** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

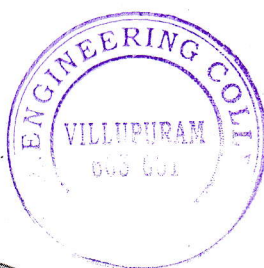
During the course of the internship **07/02/2023 TO 14/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.


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Training Co-ordinator



  
Issuing Authority



  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
PRINCIPAL  
A.R. ENGINEERING COLLEGE  
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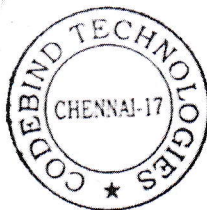
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **PRITHISHA. T** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

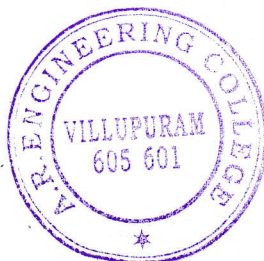
During the course of the internship **07/02/2023 TO 14/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

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Training Co-ordinator



  
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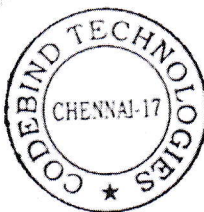
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to PRIYADHARSHINI. S for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

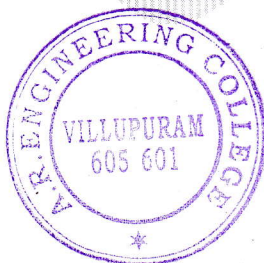
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*C. V. V.*  
Training Co-ordinator



*[Signature]*  
Issuing Authority



*[Signature]*  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
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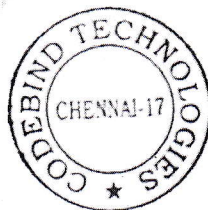
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **MOHANRAJ .P** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

During the course of the internship **07/02/2023 TO 14/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

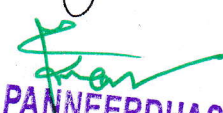
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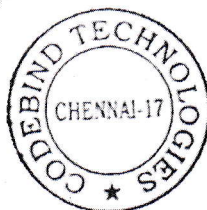
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **NITHIKA .S** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

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*C. 12*  
Training Co-ordinator



*[Signature]*  
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*[Signature]*  
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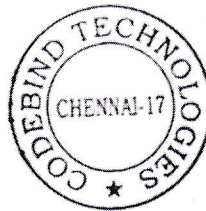
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **MADHUMITHA. P** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

During the course of the internship **07/02/2023 TO 14/02/2023** , exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.


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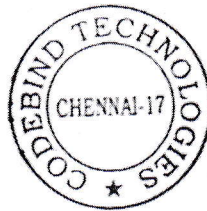
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to MAHA DEVAN .D for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

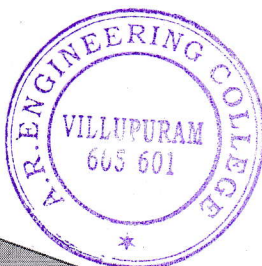
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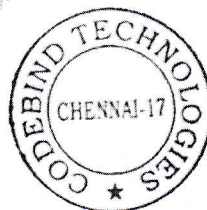
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **KALAIYARASI. R** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

During the course of the internship **07/02/2023 TO 14/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.


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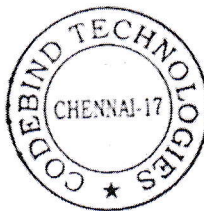
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to RAMANA.N for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

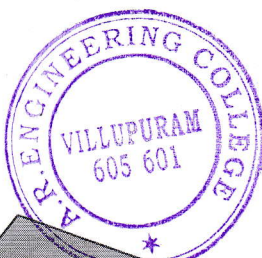
During the course of the internship **14/02/2023 TO 24/02/2023** , exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

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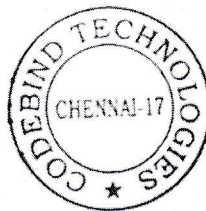
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to REVATHI.S for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

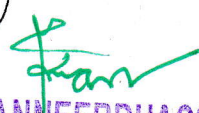
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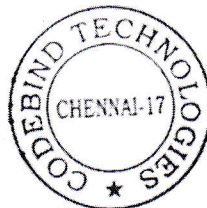
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **SANGEETHA .B** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

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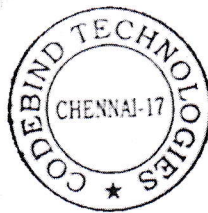
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to NITHIYANANDAN. O for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

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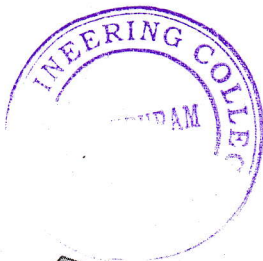
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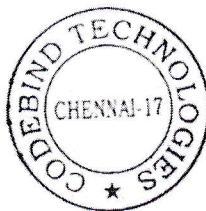
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **MADHAN M** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

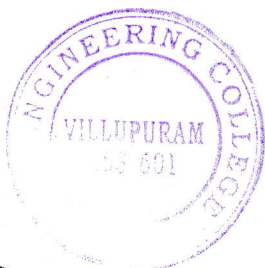
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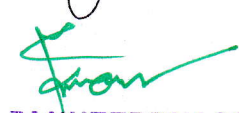
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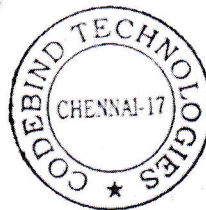
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **MAGESHWARY.M** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

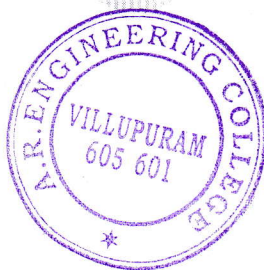
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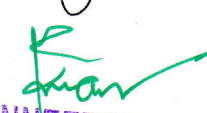
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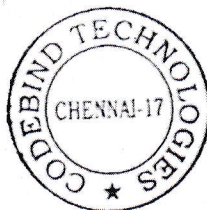
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **MOHANA PRIYA.A** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

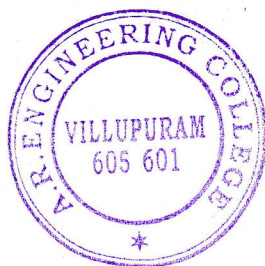
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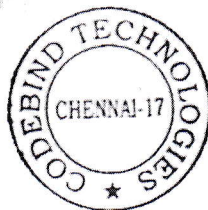
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to KAVIPRIYA.S for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

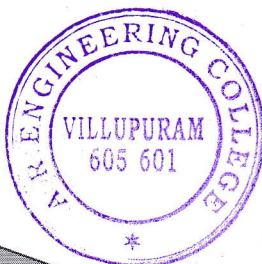
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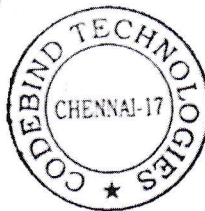
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to KANIMOZHIS for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

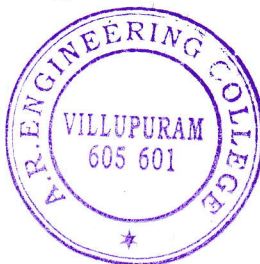
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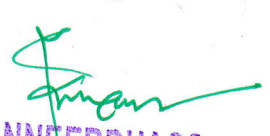
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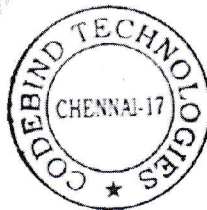
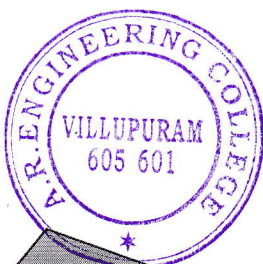
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to, **RAGUL. R** for the successful completion of Internship in Embedded systems at Code Bind Technologies, Chennai.

During the course of the internship **14/02/2023 TO 24/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavours.

Training Co-ordinator

  
Issuing Authority  
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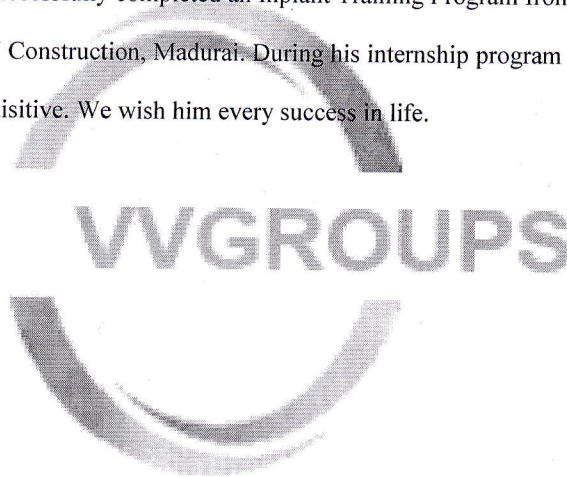
Email: [cco.vveroups@gmail.com](mailto:cco.vveroups@gmail.com)

Ph : +919940739793  
+91 9043497877

GSTIN: 33AWGPV1057Q1ZY

### TO WHOM IT MAY CONCERN

This is to certify that SRISOWMIYA. M, a student of 2nd year B.E (Civil Engineering) at A.R. Engineering College, Villupuram 605-601, successfully completed an Inplant Training Program from 1st February, 2023 to 14th February, 2023 (2 weeks) at VV Construction, Madurai. During his internship program with us, he was found to be punctual, hardworking, and inquisitive. We wish him every success in life.



For, **VVCONSTRUCTION**

Signature of Authorized Officer

**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
**PRINCIPAL**  
**A.R. ENGINEERING COLLEGE**  
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# CERTIFICATE OF ATTENDANCE

This certificate is proudly presented to

**Dhinesh. I**

for attending

DataScienceandMachineLearningInternshipProgram

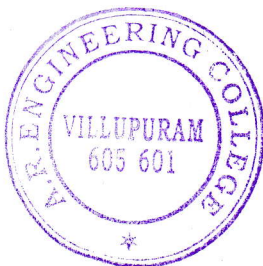
Demo Session organized by Edureka


**27<sup>th</sup> Feb 2023**

Date

*Debidutta M*

Program Head



  
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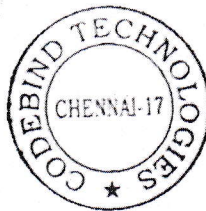
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to JANANI. R for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

During the course of the internship 07/02/2023 TO 14/02/2023, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

  
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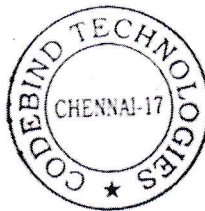
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **MAYILI. A** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

During the course of the internship **07/02/2023 TO 14/02/2023** , exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

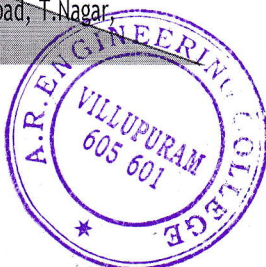
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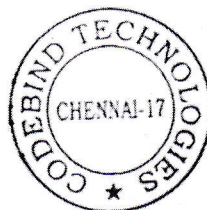
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **NAVEEN. R** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

During the course of the internship **07/02/2023 TO 14/02/2023** , exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

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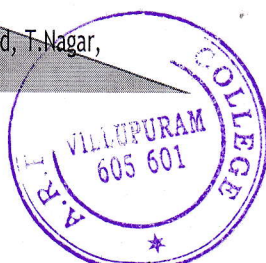
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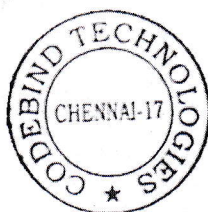
## CERTIFICATE OF INTERNSHIP

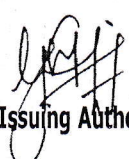
This certificate is awarded to SONIYA. D for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

During the course of the internship **07/02/2023 TO 14/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

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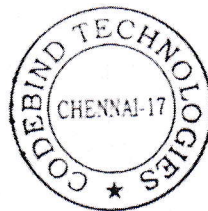
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **CHANDR.M** , for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

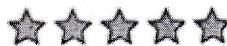
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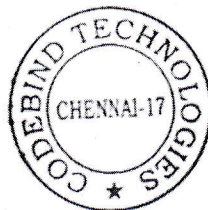
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **ANITHA.T**, for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai from 22d January 2024 to 3F January 2024.

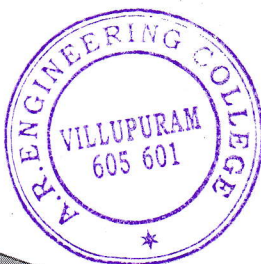
During the course of the internship **14/02/2023 TO 24/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.


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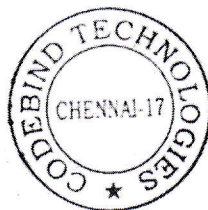
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **BHUVANESHWARIA**, for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .


During the course of the internship **07/02/2023 TO 14/02/2023** , exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

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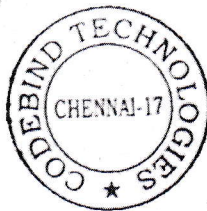
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **AKASK.M**, for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai from 22d January 2024 to 3F January 2024.


During the course of the internship **14/02/2023 TO 24/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

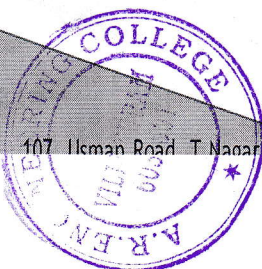
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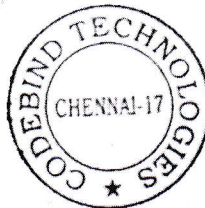
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **ABIRAMI.V**, for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai from 22d January 2024 to 3F January 2024.

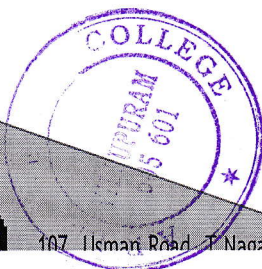
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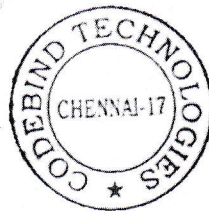
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **IYYAPPAN.V**, for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

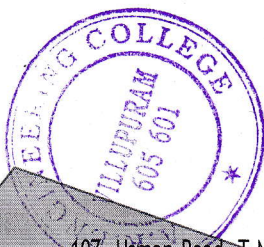
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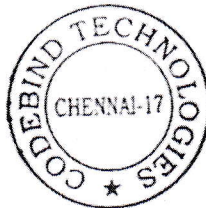
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **IYYAPAN.B** , for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

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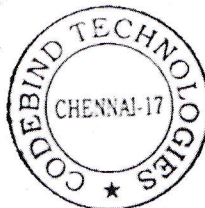
## CERTIFICATE OF INTERNSHIP


This certificate is awarded to **GUNAL.S**, for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

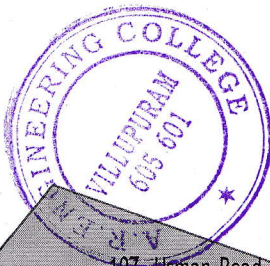
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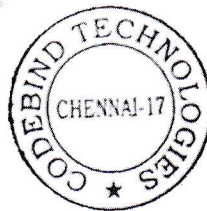
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **HARISH.U** , for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

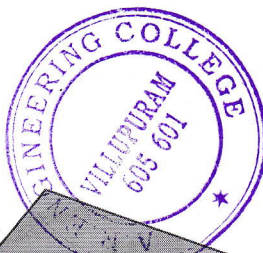
During the course of the internship **14/02/2023 TO 24/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

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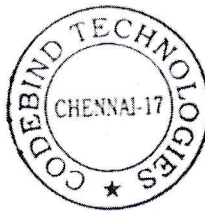
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **GOPINATH.K** , for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai from 22d January 2024 to 3F January 2024.

During the course of the internship **14/02/2023 TO 24/02/2023** , exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.


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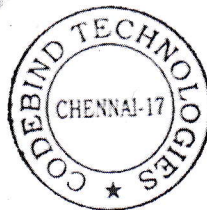
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **DEEPIGA.M** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

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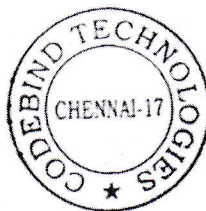
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **DESIYA.E** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

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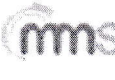


  
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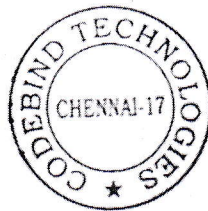
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **DEVI.R** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .


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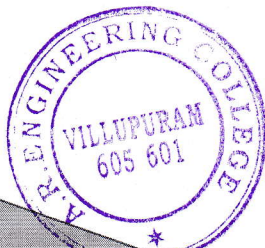
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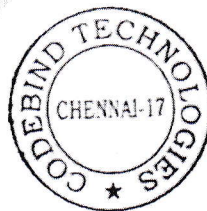
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **DILLIKUMAR.B** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

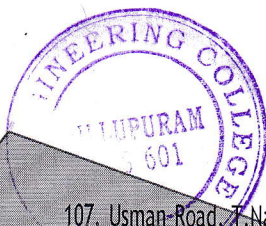
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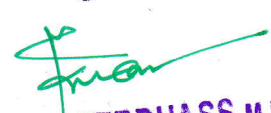


  
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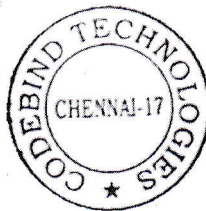
## CERTIFICATE OF INTERNSHIP

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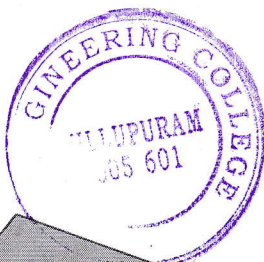
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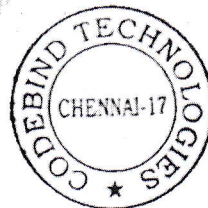
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **DHINESH.K** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai 2024.

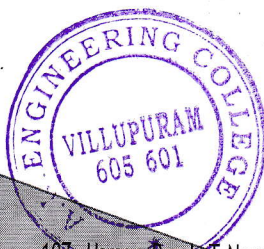
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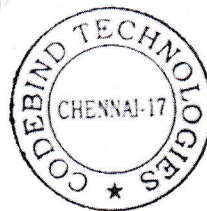
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **DIVAGAR.G**, for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

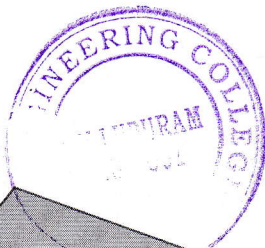
During the course of the internship **07/02/2023 TO 14/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

  
Training Co-ordinator

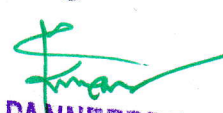


  
Issuing Authority



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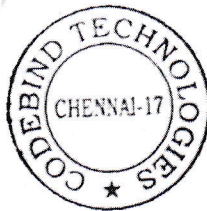
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **GAJA PRIYA.R** , for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

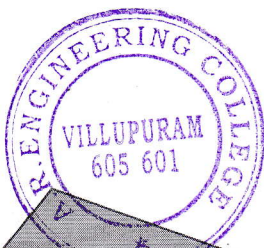
During the course of the internship **07/02/2023 TO 14/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

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*G. 18*  
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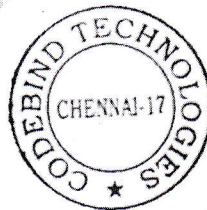
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **GOKUL.D**, for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

During the course of the internship **07/02/2023 TO 14/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

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Training Co-ordinator

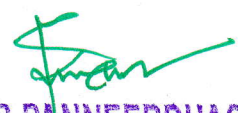


  
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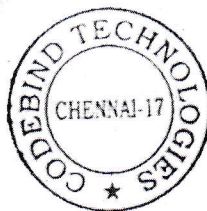
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **ELAKKIYA.K**, for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

During the course of the internship **07/02/2023 TO 14/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

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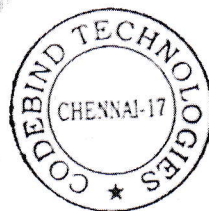
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **STEEPEN JERO. P** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

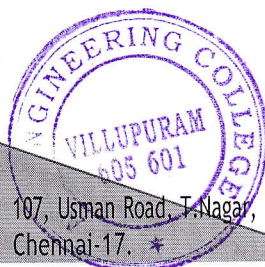
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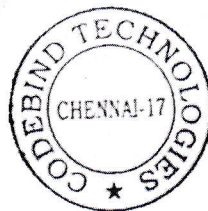
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **SUGUMAR .S** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

During the course of the internship **07/02/2023 TO 14/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

*C. V. V.*  
Training Co-ordinator



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*[Signature]*  
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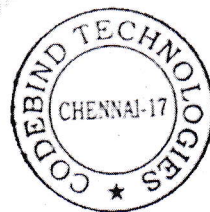
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to SURENDAR. G for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

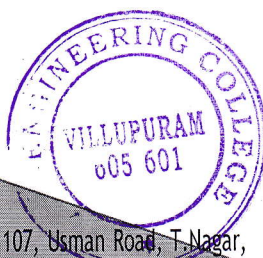
During the course of the internship **07/02/2023 TO 14/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

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*U. V.*  
Training Co-ordinator



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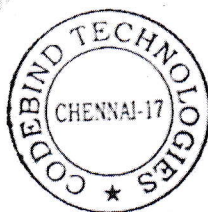
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to SYED NAMEER. N for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

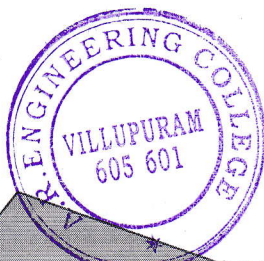
During the course of the internship **07/02/2023 TO 14/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

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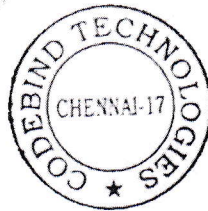
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **VENKATESH. T** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai .

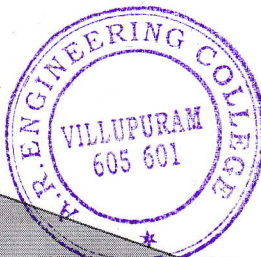
During the course of the internship **07/02/2023 TO 14/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

*C. V. V.*  
**Training Co-ordinator**



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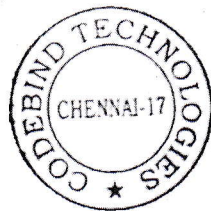
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to **DIVAGAR .G** for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai.

During the course of the internship **07/02/2023 TO 14/02/2023**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

*U. V.*  
Training Co-ordinator



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*[Signature]*  
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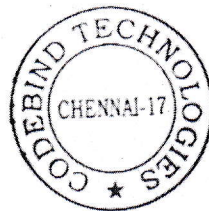
## CERTIFICATE OF INTERNSHIP

This certificate is awarded to JAGADEESHWARAN.T for the successful completion of Internship in Embedded systems at CodeBind Technologies, Chennai from 22d January 2024 to 3F January2024.

During the course of the internship **14/02/2023 TO 24/02/2023** , exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.


We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

  
Training Co-ordinator



  
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VILLUPURAM

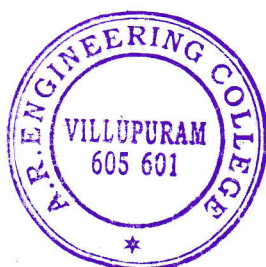
107, Usman Road, T. Nagar




## DEPARTMENT OF CIVIL ENGINEERING

### INTERNSHIP DETAILS-2022-2023

S.NO	STUDENTS NAME	DETAILS OF TITLE	PLACE OF WORK	DURATION
1	Raghul. R	About construction work	VV CONSTRUCTION-Madurai	01.02.2023-14.02.2023
2	Manoj .M	About construction work	VV CONSTRUCTION-Madurai	01.02.2023-14.02.2023
3	Santhoshkumar.G	About construction work	VV CONSTRUCTION-Madurai	01.02.2023-14.02.2023
4	Vignesh .K	About construction work	VV CONSTRUCTION-Madurai	01.02.2023-14.02.2023
5	Durga. D	About construction work	VV CONSTRUCTION-Madurai	01.02.2023-14.02.2023
6	Srisowmiya. M	About construction work	VV CONSTRUCTION-Madurai	01.02.2023-14.02.2023
7	Thulasi .T	About construction work	VV CONSTRUCTION-Madurai	01.02.2023-14.02.2023
8	Sivarajpatel. C	About construction work	VV CONSTRUCTION-Madurai	01.02.2023-14.02.2023
9	Iyyappan .S	About construction work	VV CONSTRUCTION-Madurai	01.02.2023-14.02.2023
10	Nivesh .V	About consrution work	VV CONSTRUCTION-Madurai	01.02.2023-14.02.2023



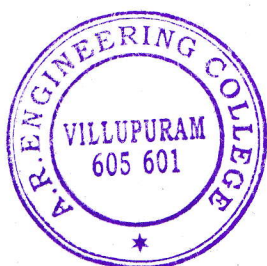
  
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**A.R. ENGINEERING COLLEGE**  
**VADAKUCHIPALAYAM,**  
**KAPPIYAMPURAM DIST,**  
**VILLUPURAM-605 601.**



## DEPARTMENT OF MECHANICAL ENGINEERING

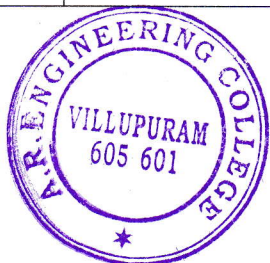
### INTERNSHIP DETAILS-2022-2023

S.NO	STUDENTS NAME	DETAILS OF TITLE	PLACE OF WORK	DURATION
1	AJITH.E	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION- CHENNAI	11.02.2023-20.02.2023
2	BOSE.M	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION- CHENNAI	11.02.2023-20.02.2023
3	CHANDRU.S	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION- CHENNAI	11.02.2023-20.02.2023
4	DHANRAJ.T	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION- CHENNAI	11.02.2023-20.02.2023
5	KARUNAKARAN.G	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION- CHENNAI	11.02.2023-20.02.2023
6	MUTHUBALAN .M	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION- CHENNAI	11.02.2023-20.02.2023
7	NAVEEN. R	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION- CHENNAI	11.02.2023-20.02.2023
8	PARAMASIVAM. V	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION- CHENNAI	11.02.2023-20.02.2023
9	PRAVEEN.P	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION- CHENNAI	11.02.2023-20.02.2023
10	SENTHILRAJA.K	Piping Engineering, Cooling Towers and	L&T CONSTRUCT	11.02.2023-20.02.2023



  
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**KAPPIYAMPULIYUR POST,**  
**VILLUPURAM-605 601.**

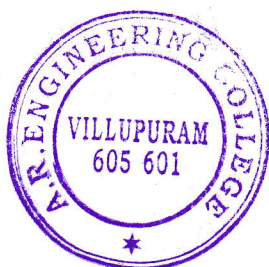
		Pressure Vessel	ION-CHENNAI	
11	SIVALINGAM.C	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION-CHENNAI	11.02.2023-20.02.2023
12	UDHAYAKUMAR. S	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION-CHENNAI	11.02.2023-20.02.2023
13	VIGNESG. E	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION-CHENNAI	11.02.2023-20.02.2023
14	CHANDRU. C	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION-CHENNAI	11.02.2023-20.02.2023
15	DILIPRAJ. V	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION-CHENNAI	11.02.2023-20.02.2023
16	DINESH. R	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION-CHENNAI	11.02.2023-20.02.2023
17	SRIDHAR. M	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION-CHENNAI	11.02.2023-20.02.2023
18	VASANTHAHEL .K	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION-CHENNAI	11.02.2023-20.02.2023
19	VINOTH KUMAR .S	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION-CHENNAI	11.02.2023-20.02.2023
20	YUVARAJ. M	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION-CHENNAI	11.02.2023-20.02.2023
21	PUNNIYANATHAN. R	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION-CHENNAI	11.02.2023-20.02.2023




  
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22	RAJESH .V	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION- CHENNAI	11.02.2023-20.02.2023
23	SANTHOSH. S	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION- CHENNAI	11.02.2023-20.02.2023
24	SURIYA. J	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION- CHENNAI	11.02.2023-20.02.2023
25	UTHAYAKUMAR .V	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION- CHENNAI	11.02.2023-20.02.2023
26	VEERAMANIKANDAN G	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION- CHENNAI	11.02.2023-20.02.2023
27	VINOTH KUMAR. S	Piping Engineering, Cooling Towers and Pressure Vessel	L&T CONSTRUCT ION- CHENNAI	11.02.2023-20.02.2023

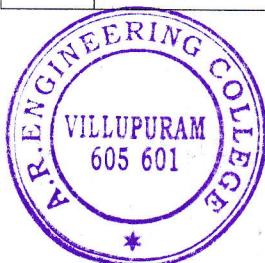


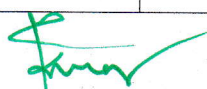
  
**Dr. R. PANNEERDHASS, M.E., Ph.D.,**  
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 VADAKUCHIPALAYAM,  
 KAPPIYAMPULIYUR POS,  
 VILLUPURAM-605 601.

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION**  
**ENGINEERING**

**INTERNSHIP DETAILS-2022-2023**

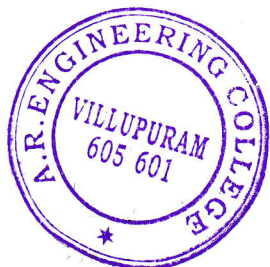
S.NO	STUDENTS NAME	DETAILS OF TITLE	PLACE OF WORK	DURATION
1	GOMATHI P	DATA SCIENCE AND MACHINE LEARNING	EDUREKA	27.02.2023 (1 DAY)
2	GURUNATHAN R	DATA SCIENCE AND MACHINE LEARNING	EDUREKA	27.02.2023 (1 DAY)
3	ASHOKBARATHI E	DATA SCIENCE AND MACHINE LEARNING	EDUREKA	27.02.2023 (1 DAY)
4	KALANITHI J	DATA SCIENCE AND MACHINE LEARNING	EDUREKA	27.02.2023 (1 DAY)
5	PRIYADHARSHINI S	DATA SCIENCE AND MACHINE LEARNING	EDUREKA	27.02.2023 (1 DAY)
6	SUGUMARAN S	DATA SCIENCE AND MACHINE LEARNING	EDUREKA	27.02.2023 (1 DAY)
7	ANTHONY MERCY.G	DATA SCIENCE AND MACHINE LEARNING	EDUREKA	27.02.2023 (1 DAY)
8	ANUCIYA G	DATA SCIENCE AND MACHINE LEARNING	EDUREKA	27.02.2023 (1 DAY)
9	ARTHI K	DATA SCIENCE AND MACHINE LEARNING	EDUREKA	27.02.2023 (1 DAY)
10	ARUNTHDEVI.M	DATA SCIENCE AND MACHINE	EDUREKA	27.02.2023 (1 DAY)



  
**Dr.R.PANNEERDHASS, M.E., Ph.D.,**  
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**VADAKUCHIPALAYAM,**  
**KAPPIYAMPULIYUR POST,**  
**VILLUPURAM-605 601.**

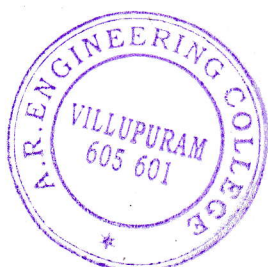


		<b>LEARNING</b>		
<b>11</b>	BHUVANESWARAN S	<b>DATA SCIENCE AND MACHINE LEARNING</b>	<b>EDUREKA</b>	<b>27.02.2023 (1 DAY)</b>
<b>12</b>	DHIVYA B	<b>DATA SCIENCE AND MACHINE LEARNING</b>	<b>EDUREKA</b>	<b>27.02.2023 (1 DAY)</b>
<b>13</b>	DIVYA M	<b>DATA SCIENCE AND MACHINE LEARNING</b>	<b>EDUREKA</b>	<b>27.02.2023 (1 DAY)</b>
<b>14</b>	GOPINATH.S	<b>DATA SCIENCE AND MACHINE LEARNING</b>	<b>EDUREKA</b>	<b>27.02.2023 (1 DAY)</b>
<b>15</b>	JAYA SATHYA.R	<b>TELECOM TECHNOLOGIES</b>	<b>BSNL</b>	<b>1.06.2023-22.06.2023 (4 WEEKS)</b>
<b>16</b>	KALAYARASIE	<b>DATA SCIENCE AND MACHINE LEARNING</b>	<b>EDUREKA</b>	<b>27.02.2023 (1 DAY)</b>
<b>17</b>	KARTHIKEYAN.G	<b>DATA SCIENCE AND MACHINE LEARNING</b>	<b>EDUREKA</b>	<b>27.02.2023 (1 DAY)</b>
<b>18</b>	KAVIYA.V	<b>DATA SCIENCE AND MACHINE LEARNING</b>	<b>EDUREKA</b>	<b>27.02.2023 (1 DAY)</b>
<b>19</b>	KEERTHIKA.E	<b>DATA SCIENCE AND MACHINE LEARNING</b>	<b>EDUREKA</b>	<b>27.02.2023 (1 DAY)</b>
<b>20</b>	KIRUBAKARAN.R	<b>DATA SCIENCE AND MACHINE LEARNING</b>	<b>EDUREKA</b>	<b>27.02.2023 (1 DAY)</b>
<b>21</b>	MEERA.S	<b>DATA SCIENCE AND MACHINE LEARNING</b>	<b>EDUREKA</b>	<b>27.02.2023 (1 DAY)</b>
<b>22</b>	SIVAJOTHI.R	<b>DATA SCIENCE AND MACHINE</b>	<b>EDUREKA</b>	<b>27.02.2023 (1 DAY)</b>



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		<b>LEARNING</b>		
23	SWEATHA.S	<b>DATA SCIENCE AND MACHINE LEARNING</b>	<b>EDUREKA</b>	<b>27.02.2023 (I DAY)</b>
24	VIJAYALAKSHMI.S	<b>DATA SCIENCE AND MACHINE LEARNING</b>	<b>EDUREKA</b>	<b>27.02.2023 (I DAY)</b>
25	ARAVINDAN S	<b>DATA SCIENCE AND MACHINE LEARNING</b>	<b>EDUREKA</b>	<b>27.02.2023 (I DAY)</b>
26	ANJANA DEVI. E	<b>DATA SCIENCE AND MACHINE LEARNING</b>	<b>EDUREKA</b>	<b>27.02.2023 (I DAY)</b>
27	BOOBALAN .P	<b>DATA SCIENCE AND MACHINE LEARNING</b>	<b>EDUREKA</b>	<b>27.02.2023 (I DAY)</b>
28	DHINESH .I	<b>DATA SCIENCE AND MACHINE LEARNING</b>	<b>EDUREKA</b>	<b>27.02.2023 (I DAY)</b>
29	ELAKKIYADHASAN. S	<b>TELECOM TECHNOLOGIES</b>	<b>BSNL</b>	<b>1.06.2023-22.06.2023 (4 WEEKS)</b>
30	JAYABHARATHI .G	<b>TELECOM TECHNOLOGIES</b>	<b>BSNL</b>	<b>1.06.2023-22.06.2023 (4 WEEKS)</b>
31	KAVIYA. K	<b>TELECOM TECHNOLOGIES</b>	<b>BSNL</b>	<b>1.06.2023-22.06.2023 (4 WEEKS)</b>
32	MANISHA .D	<b>DATA SCIENCE AND MACHINE LEARNING</b>	<b>EDUREKA</b>	<b>27.02.2023 (I DAY)</b>
33	VIJAYALAKSHMI. D	<b>DATA SCIENCE AND MACHINE LEARNING</b>	<b>EDUREKA</b>	<b>27.02.2023 (I DAY)</b>



  
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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**INTERNSHIP DETAILS-2022-2023**

S.NO	STUDENTS NAME	DETAILS OF TITLE	PLACE OF WORK	DURATION
1	KARTHIGA. R	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
2	SRIDEVI. S	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
3	SUGANTHI. P	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
4	ARIRAJ. H	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
5	ARULJOTHI .A	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
6	DHILIPKUMAR. S	TELECOMMUNICATION	Bsnl-cuddalore	4 weeks01.0.6.2023-20.06.2023
7	DINESH. G	telecommunication	Bsnl-cuddalore	4 weeks01.0.6.2023-20.06.2023
8	GANAPATHY. I	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
9	NANDHAKUMAR. N	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
10	PATCHAIAPPAN. M	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
11	SOWNDARRAJ. D	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
12	BHARATHI. S	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
13	JAYAVEL .S	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
14	KALAI STALIN MARAN M	Embedded systems	Code Bind Technologies-	07.02.2023-14.02.2023



*[Signature]*  
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			CHENNAI	
15	MOHAMED IMTHIYAS .E	<b>Embedded systems</b>	Code Bind Technologies- CHENNAI	07.02.2023-14.02.2023
16	NITHISHKUMAR. V	<b>Embedded systems</b>	Code Bind Technologies	07.02.2023-14.02.2023
17	RAGUL. R	<b>Embedded systems</b>	Code Bind Technologies	07.02.2023-14.02.2023
18	SABARI .S	<b>Embedded systems</b>	Code Bind Technologies	07.02.2023-14.02.2023
19	SURIYA. M	<b>Embedded systems</b>	Code Bind Technologies	07.02.2023-14.02.2023
20	VASANTHARAJ .R	<b>Embedded systems</b>	Code Bind Technologies	07.02.2023-14.02.2023
21	VISHNU PRIYA. B	<b>Embedded systems</b>	Code Bind Technologies	07.02.2023-14.02.2023
22	DURAIGURU. R	<b>Embedded systems</b>	Code Bind Technologies- CHENNAI	07.02.2023-14.02.2023



  
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**DEPARTMENT OF COMPUTER SCIENCE ENGINEERING**

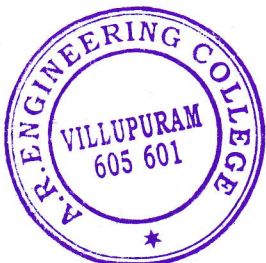
**INTERNSHIP DETAILS-2022-2023**

S.NO	STUDENTS NAME	DETAILS OF TITLE	PLACE OF WORK	DURATION
1	ANITHA. T	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
2	BHUVANESHWARI .A	Embedded systems	Code Bind Technologies	07.02.2023-14.02.2023
3	DESIYA. E	Embedded systems	Code Bind Technologies	07.02.2023-14.02.2023
4	DEVI. R	Embedded systems	Code Bind Technologies	07.02.2023-14.02.2023
5	JANANI. R	Embedded systems	Code Bind Technologies	07.02.2023-14.02.2023
6	MAYILI. A	Embedded systems	Code Bind Technologies	07.02.2023-14.02.2023
7	NARMADHA. S	telecommunication	Bsnl-cuddalore	4 weeks01.0.2.2023-20.02.2023
8	NAVEEN. R	Embedded systems	Code Bind Technologies	07.02.2023-14.02.2023
9	PRAKASH. M	Embedded systems	Code Bind Technologies	07.02.2023-14.02.2023
10	SONIYA. D	Embedded systems	Code Bind Technologies	07.02.2023-14.02.2023
11	STEEPEN JERO. P	Embedded systems	Code Bind Technologies	07.02.2023-14.02.2023
12	SUGUMAR .S	Embedded systems	Code Bind Technologies	07.02.2023-14.02.2023
13	SURENDAR. G	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
14	SYED NAMEER. N	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
15	VENKATESH. T	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023



  
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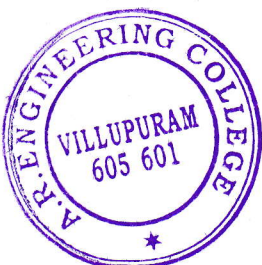
16	AKASH .M	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
17	DIVAGAR .G	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
18	JAGADEESHWARAN.T	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
19	KANIMOZHI.S	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
20	KAVIPRIYA.S	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
21	MADHAN M	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
22	MAGESHWARY.M	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
23	MOHANA PRIYA.A	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
24	NITHIYANANDAN. O	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
25	RAMANA.N	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
26	REVATHI.S	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
27	SANGEETHA .B	<b>Embedded systems</b>		07.02.2023-14.02.2023
28	SURYA.A	telecommunication	Bsnl-cuddalore	4 weeks01.0.2.2023-20.02.2023
29	VIJAY CHANDRAN.M	telecommunication	Bsnl-cuddalore	4 weeks01.0.2.2023-20.02.2023
30	VISHWA.R	telecommunication	Bsnl-cuddalore	4 weeks01.0.2.2023-20.02.2023
31	YUVARAJ.S	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023



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32	GUNAL. S	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
33	THAMIZHSELVAN. M	telecommunication	Bsnl-cuddalore	4 weeks 01.02.2023-20.02.2023
34	VISWESH. M	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
35	ABIRAMI. V	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
36	DEEPIGA. M	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
37	DHINESH. K	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
38	DILLIKUMAR. R	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
39	DILLIKUMARAN. B	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
40	ELAKKIYA .K	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
41	GAJA PRIYA. R	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
42	GOKUL. D	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
43	HARISH .U	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
44	IYYAPPAN .V	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
45	KALAIYARASI. R	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
46	MADHUMITHA. P	<b>Embedded systems</b>	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
47	MAHA DEVAN .D	<b>Embedded systems</b>	Code Bind Technologies-	07.02.2023-14.02.2023



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			CHENNAI	
48	MOHANRAJ .P	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
49	NITHIKA .S	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
50	PRITHISHA. T	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
51	PRIYADHARSHINI. S	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
52	PURUSHOTHAMAN M	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
53	RAMESH KUMAR. R	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
54	SATHISH. E	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
55	SIVANESHWAR. E	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
56	SUNDAR. S	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
57	VAITHEESWARI .V	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
58	VENKATARAMANA. T	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
59	VIGNESH .I	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023
60	JAYAMUGILAN. M	Embedded systems	Code Bind Technologies-CHENNAI	07.02.2023-14.02.2023



  
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