



1.3 Curriculum Enrichment

1.3.3. Percentage of students undertaking project work/field work / internship (Data for the latest completed academic year)

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Established in 1993
Managed by Catholic Group of Institutions, Muvattupuzha



Department of Civil Engineering

Internship Details (2018-2022 Batch)

Sl. No.	Name	Industry	Duration
1	Abhirami K R	Government of Kerala Water Resources Department, Irrigation Sub Division, Thodupuzha	15/7/2019-25/7/2019
2	Abina Joseph	Marymatha Construction Company	10/7/2019-19/7/2019
3	Abin Michael	PJB Engineers Pvt.Ltd	07/09/2019-14/09/2019
4	Abi Paul	PJB Engineers Pvt.Ltd	17/7/2019- 24/7/2019
5	Afna Merin Ioy	FACT RCF Building Products Limited	15/7/2019-19/7/2019
6	Afin Rafeek	Agarwal Jagdish Construction Co. Pvt. Ltd., Nasirabad	15/07/2019- 19/07/2019
7	Aiswarya Roby	Holy Faith Builders & Developers PVT LTD	17/7/2019- 24/7/2019
8	Akhil K Kumar	Raj Constructions, Ernakulam	15/07/2019- 19/07/2019
9	Akhil S Kadavan	Confident Projects-Residential, Vyttila, Cochin	15/07/2019- 19/07/2019
10	Akhil Sunil	FACT RCF Building Products Limited	15/7/2019-19/7/2019
11	Alen Varghese Paul	PJB Engineers Pvt.Ltd	17/7/2019- 24/7/2019
12	Aleena Nasar	S&K Builders & Developers	10/7/2019- 15/7/2019
13	Amal Jomon	Raj Constructions, Ernakulam	15/07/2019- 19/07/2019
14	Amal Mathew	PJB Engineers Pvt.Ltd	17/7/2019- 24/7/2019
15	Aman Ibrahim	Confident Projects-Residential, Vyttila, Cochin	15/07/2019- 19/07/2019
16	Anakha Haridas	Government of Kerala Water Resources Department, Irrigation Sub Division, Thodupuzha	15/07/2019- 25/07/2019
17	Anamika S Nair	Government of Kerala Water Resources Department, Irrigation Sub Division, Thodupuzha	15/07/2019- 25/07/2019
18	Ananthu Nelson	PJB Engineers Pvt.Ltd	17/7/2019- 24/7/2019
19	Anitta Babu	Government of Kerala Water Resources Department, Irrigation Sub Division, Thodupuzha	15/07/2019- 25/07/2019
20	Anjaly Girish	Madathil Enterprises	10/7/2019-16/7/2019
21	Anjana V	FACT RCF Building Products Limited	15/7/2019-19/7/2019
22	Anna Mariya Joseph	Government of Kerala Water Resources Department, Irrigation Sub Division, Thodupuzha	15/07/2019- 25/07/2019
23	Anugraha Mathew	BuildNext Construction Solutions(P)Ltd	8/7/2019- 19/7/2019
24	Anupriya George	Marymatha Construction Company	10/7/2019-19/7/2019
25	Anusba Vinod	G.C.K Associates, Engineers & Contractors, Cochin	05/07/2019- 10/07/2019
26	Aravind K Sunil	Agarwal Jagdish Construction Co. Pvt. Ltd., Nasirabad	15/07/2019- 19/07/2019
27	Arjun Sasidharan	Marshlen Builders	4/7/2019-9/7/19
28	Ashfaq Navas	PJB Engineers Pvt.Ltd	17/7/2019- 24/7/2019
29	Ashly M.Assainar	Roopakala Engineers & Surveyors	18/7/2019-23/7/2019
30	Ashwin Sunny Paulose	Raj Constructions, Ernakulam	15/07/2019- 19/07/2019
31	Athul Krishna H	FACT RCF Building Products Limited	15/7/2019-19/7/2019
32	Athul Thomas	SEPTA Group Builders,Promoters & Contractors	17/7/2019- 24/7/2019
33	Berik Johny	Online	April-May 2020(5 days)
34	Christeena Sony	Marymatha Construction Company	10/7/2019-19/7/2019
35	Christy Tom	Government of Kerala Water Resources Department, Irrigation Sub Division, Thodupuzha	15/07/2019- 25/07/2019
36	Deena Thankachan	PJB Engineers Pvt.Ltd	17/7/2019- 24/7/2019
37	Deon Tom	K.V.Joseph and Sons Private Limited Engineering Contractors, Kochi	30/07/2019- 09/08/2019
38	Divya K.M	G.C.K Associates, Engineers & Contractors, Cochin	05/07/2019- 10/07/2019
39	Ebeena Elias	Madathil Enterprises	10/7/2019-16/7/2019
40	Eldho Paul C	PJB Engineers Pvt.Ltd	17/7/2019- 24/7/2019
41	Fahimtha Hameed	S&K Builders & Developers	10/7/2019- 15/7/2019
42	Fathima Muhammed A.M	G.C.K Associates, Engineers & Contractors, Cochin	05/07/2019- 10/07/2019
43	Fathimath Suhara P.A.	PJB Engineers Pvt.Ltd	17/7/2019- 24/7/2019
44	Gregor Jacob	FIDES Technical Consultants & Services, Thrissur	16/07/2019- 23/07/2019
45	Harish Saji	PJB Engineers Pvt.Ltd	17/7/2019- 24/7/2019
46	Hasna Amina	Holy Faith Builders & Developers PVT LTD	17/7/2019- 24/7/2019
47	Hebal C.Mathew	PJB Engineers Pvt.Ltd	07/09/2019-14/09/2020





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Department of Civil Engineering

Internship Details (2018-2022 Batch)

48	Jerin Varghese	Agarwal Jagdish Construction Co. Pvt. Ltd., Nasirabad	15/07/2019- 19/07/2019
49	Jerus Anna Kurian	BuildNext Construction Solutions(P)Ltd	8/7/2019- 19/7/2019
50	Jimna Jabbar	G.C.K Associates, Engineers & Contractors, Cochin	05/07/2019- 10/07/2019
51	Joel Regi	Confident Projects-Residential, Vyttila, Cochin	15/07/2019- 19/07/2019
52	John George	Rightedge Infrastructure Pvt Ltd	8/7/2019- 13/7/2019
53	Joseph Johns	Raj Constructions, Ernakulam	15/07/2019- 19/07/2019
54	Joseph Simon	PJB Engineers Pvt.Ltd	17/7/2019- 24/7/2019
55	Junophine N Antony	Marymatha Construction Company	10/7/2019-19/7/2019
56	Kavya Sajith	JS Constructions, Cherthala	08/07/2019- 12/07/2019
57	Krishna Priya S	Government of Kerala Water Resources Department, Irrigation Sub Division, Thodupuzha	15/07/2019- 25/07/2019
58	Lakshmi P Shaji	Government of Kerala Water Resources Department, Irrigation Sub Division, Thodupuzha	15/07/2019- 25/07/2019
59	Manna John Kuttathil	JS Constructions, Cherthala	08/07/2019- 12/07/2019
60	Maria Tess Thomas	Holy Faith Builders & Developers PVT LTD	17/7/2019- 24/7/2019
61	Mariya Eldho	Agarwal Jagdish Construction Co. Pvt. Ltd., Nasirabad	15/07/2019- 19/07/2019
62	Mathews Jose	FACT RCF Building Products Limited	15/7/2019-19/7/2019
63	Megha Jonion	Madathil Enterprises, Thodupuzha	10/07/2019- 16/07/2019
64	Nidhin Pradeep	Agarwal Jagdish Construction Co. Pvt. Ltd., Nasirabad	15/07/2019- 19/07/2019
65	Nijin Varghese	Agarwal Jagdish Construction Co. Pvt. Ltd., Nasirabad	15/07/2019- 19/07/2019
66	Niya Shajan	United Techno Projects Pvt Ltd	15/7/2019-25/7/2019
67	Prabal Sojan	Rajesh Mathew Co.	25/07/2020-30/07/2020
68	Reeza Rachel Abraham	NAEL General Contracting L.L.C, Al Ain-UAE	27/06/2019- 11/07/2019
69	Rensho Binu	Marshlen Builders	4/7/2019-9/7/19
70	Rislin	FACT RCF Building Products Limited	15/7/2019-19/7/2019
71	Risma Rasheed	Agarwal Jagdish Construction	15/7/2019-19/7/2019
72	Riya Regi	PJB Engineers Pvt.Ltd	17/7/2019- 24/7/2019
73	Rohith Balakrishnan	FACT RCF Building Products Limited	15/7/2019-19/7/2019
74	Rohith P.R.	SEPTA Group Builders,Promoters & Contractors	17/7/2019- 24/7/2019
75	Ron Ellickal	Confident Projects-Residential, Vyttila, Cochin	15/07/2019- 19/07/2019
76	Ron Jose	Marshlen Builders	4/7/2019-9/7/19
77	Ron Mathew	Confident Projects-Residential, Vyttila, Cochin	15/07/2019- 19/07/2019
78	Rose Maria Joseph	BuildNext Construction Solutions(P)Ltd	8/7/2019- 19/7/2019
79	Roshan Byju	Madathil Enterprises, Thodupuzha	10/07/2019- 16/07/2019
80	Sandra Libu	Contech, Abu Dhabi	20/07/2019- 25/07/2019
81	Sandra Maria Siby	Madathil Enterprises	10/7/2019-16/7/2019
82	Saniya Joy	Agarwal Jagdish Construction Co. Pvt. Ltd., Nasirabad	15/07/2019- 19/07/2019
83	Sanjo K James	BUILTEC Architects,Engineers and Planners	19/7/2019- 23/7/2019
84	Santhra Regi	BPCL Kochi Refinery New Township Site	8/7/2019- 12/7/2019
85	Shalbin Shaji	Raj Constructions, Ernakulam	15/07/2019- 19/07/2019
86	Shijo Joy	FACT RCF Building Products Limited	15/7/2019-19/7/2019
87	Sobin Paul	SEPTA Group Builders,Promoters & Contractors	17/7/2019- 24/7/2019
88	Sreelekshmi R Nair	G.C.K Associates, Engineers & Contractors, Cochin	05/07/2019- 10/07/2019
89	Sulthana P S	Holy Faith Builders & Developers PVT LTD	17/7/2019- 24/7/2019
90	Swathi Sreeraj	BPCL Kochi Refinery New Township Site	8/7/2019- 12/7/2019
91	Syam Mohan	PJB Engineers Pvt.Ltd	17/7/2019- 24/7/2019
92	Thasli K Moideen	Agarwal Jagdish Construction Co. Pvt. Ltd., Nasirabad	15/07/2019- 19/07/2019
93	Tim Jaison	Madathil Enterprises, Thodupuzha	10/07/2019- 16/07/2019
94	Vishnu K Saji	Agarwal Jagdish Construction Co. Pvt. Ltd., Nasirabad	15/07/2019- 19/07/2019



Rajan

Dr. K.K. Rajan
Principal

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Department of Civil Engineering
Internship Details(2019-2023 Batch)

Sl. No.	Name	Industry	Duration
1	Aiswarya Raju	Madeckal Constructions	05/10/2020 to 9/10/2020
2	Akhilamol Sibi	Polite India Constructions	01/07/2020 to 07/07/2020
3	Amal Koshy George	Govt.Contractors(K.W.A) A class 8/01-03/SE/PHC/Kochi	01/08/2020 to 07/08/2020
4	Amal Reji	Polite India Constructions	01/07/2020 to 07/07/2020
5	Angel Mary Joshy	Polite India Constructions	01/07/2020 to 07/07/2020
6	Anirudh Manoj	Polite India Constructions	01/07/2020 to 07/07/2020
7	Anitha Benny	Madeckal Constructions	05/10/2020 to 9/10/2020
8	Anitta Joseph	Madeckal Constructions	05/10/2020 to 9/10/2020
9	Ann Mariya Baby	Polite India Constructions	01/07/2020 to 07/07/2020
10	Anna Maria George	Govt.Contractors(K.W.A) A class 8/01-03/SE/PHC/Kochi	01/08/2020 to 07/08/2020
11	Aravind Rajeev	Polite India Constructions	01/07/2020 to 07/07/2020
12	Arif Ali	Polite India Constructions	01/07/2020 to 07/07/2020
13	Ashly Asok	Polite India Constructions	01/07/2020 to 07/07/2020
14	B Ganeshraj	KNK Builders	1/9/2020 to 30/09/2020
15	Dani Biju	KNK Builders	1/9/2020 to 30/09/2020
16	Dilna K C	Polite India Constructions	01/07/2020 to 07/07/2020
17	Dona Jose	KNK Builders	1/9/2020 to 30/09/2020
18	Doni Biju	KNK Builders	1/9/2020 to 30/09/2020
19	Eldho babu	Madeckal Constructions	05/10/2020 to 9/10/2020
20	Feba Biju	Madeckal Constructions	05/10/2020 to 9/10/2020
21	George M Jose	Tecnocart Innovations Pvt Ltd	26/12/2019 to 30/12/2019
22	Hansa Noushad	Madeckal Constructions	05/10/2020 to 9/10/2020
23	Haripriya Biju	Madeckal Constructions	05/10/2020 to 9/10/2020
24	Harisankar Madhu	Polite India Constructions	01/07/2020 to 07/07/2020
25	Jaswanth Sadasivan	Polite India Constructions	01/07/2020 to 07/07/2020
26	Jibin Johnson	Madeckal Constructions	05/10/2020 to 9/10/2020
27	Jobin Wilson	Madeckal Constructions	05/10/2020 to 9/10/2020



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Department of Civil Engineering
Internship Details(2019-2023 Batch)

Sl. No.	Name	Industry	Duration
28	Lekshmi ajayakumar	Govt.Contractors(K.W.A) A class 8/01-03/SE/PHC/Kochi	01/08/2020 to 07/08/2020
29	Lisha C	Madeckal Constructions	05/10/2020 to 9/10/2020
30	Muhammed Jefin S	Govt.Contractors(K.W.A) A class 8/01-03/SE/PHC/Kochi	01/08/2020 to 07/08/2020
31	Navaneetha S	Madeckal Constructions	05/10/2020 to 9/10/2020
32	Parvathi Suresh	Madeckal Constructions	05/10/2020 to 9/10/2020
33	Radhika Ratheesh	Polite India Constructions	01/07/2020 to 07/07/2020
34	Robin O J	Polite India Constructions	01/07/2020 to 07/07/2020
35	Sandhra Sibi	Polite India Constructions	01/07/2020 to 07/07/2020
36	Sara Mujeeb	Polite India Constructions	01/07/2020 to 07/07/2020
37	Sarath Mohanan	Govt.Contractors(K.W.A) A class 8/01-03/SE/PHC/Kochi	01/08/2020 to 07/08/2020
38	Sethulakshmi	Madeckal Constructions	05/10/2020 to 9/10/2020
39	Sherin Lina George	Madeckal Constructions	05/10/2020 to 9/10/2020
40	Shone Shaju	Govt.Contractors(K.W.A) A class 8/01-03/SE/PHC/Kochi	01/08/2020 to 07/08/2020
41	Sona Mariyam Sunny	Madeckal Constructions	05/10/2020 to 9/10/2020
42	Stephen p Santhosh	Govt.Contractors(K.W.A) A class 8/01-03/SE/PHC/Kochi	01/08/2020 to 07/08/2020
43	Vandhana P V	Govt.Contractors(K.W.A) A class 8/01-03/SE/PHC/Kochi	01/08/2020 to 07/08/2020
44	Yedhukrishna C V	Polite India Constructions	01/07/2020 to 07/07/2020



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Department of Computer Science Engineering

Internship Details(2018-2022 Batch)

Sl. No.	Name	Industry	Duration
1	Aamira Shirin A. R	Pacelab	14/07/2019-18/07/2019
2	Abba Mathews	Keltron, Kalamassery	10/07/2019-16/07/2019
3	Abin Jose	Keltron, Kalamassery	10/07/2019-16/07/2019
4	Abin Joy	HEDONE	15/07/2019-19/07/2019
5	Aiswarya Sunil	Torc Infotech	14/07/2019-18/07/2019
6	Akshai Pushpan	Torc Infotech	14/07/2019-18/07/2019
7	Alan Anto Joy	Keltron, Kalamassery	10/07/2019-16/07/2019
8	Alan Jose	Keltron, Kalamassery	10/07/2019-16/07/2019
9	Albert Manuel Baby	Torc Infotech	14/07/2019-18/07/2019
10	Aleena Baby	Aumento Performer's Solution Pvt. Ltd, Palarivattom	08/07/2019-26/07/2019
11	Aleena Eldho	PACELAB	14/07/2019-18/07/2019
12	Aleena Jose	Keltron, Kalamassery	10/07/2019-16/07/2019
13	Aleena Sara Baby	Keltron, Kalamassery	10/07/2019-16/07/2019
14	Alja Mary Paul	PACELAB	14/07/2019-18/07/2019
15	Alphin Tom	Keltron, Kalamassery	10/07/2019-16/07/2019
16	Alphonse George	Torc Infotech	14/07/2019-18/07/2019
17	Amal Biju	Tecnocart	14/09/2019-30/09/2019
18	Ambady Prince	Keltron, Kalamassery	10/07/2019-16/07/2019
19	Ameesha Shajan	Tecnocart	13/08/2020-29/09/2020
20	Amina Shirin	Torc Infotech	14/07/2019-18/07/2019
21	Anandhu Anil	PACE LAB	23/07/2019-28/07/2019
22	Anjana Anil	Torc Infotech	14/07/2019-18/07/2019
23	Anjana Manoj	Keltron, Kalamassery	10/07/2019-16/07/2019
24	Ann Mol Justin	Torc Infotech	14/07/2019-18/07/2019
25	Anns Maria Mathew	Torc Infotech	14/07/2019-18/07/2019
26	Ansel James Joseph	Torc Infotech	14/07/2019-18/07/2019
27	Anudev Jayan	Torc infotech	14/07/2019-18/07/2019
28	Arsha S	Keltron, Kalamassery	10/07/2019-16/07/2019
29	Ashie Bridgette Joseph	Torc Infotech	14/07/2019-18/07/2019
30	Ashly Pious	Keltron, Kalamassery	10/07/2019-16/07/2019
31	Ashwin Joshy	Torc infotech, Edappally	14/07/2019-18/07/2019





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Department of Computer Science Engineering Internship Details(2018-2022 Batch)

Sl. No.	Name	Industry	Duration
32	Aswin Ajay	Keltron, Kalamassery	10/07/2019-16/07/2019
33	Aswin Tv	Technocart Innovations pvt Ltd	13/08/2020-29/08/2020
34	Athira George	PACE LAB	14/07/2019-18/07-2019
35	Athira Pradeep	Yellow Rays Solutions (P) Ltd, Tripunithura	15/07/2019-19/07/2019
36	Athul P Shaji	Torc Infotech	14/07/2019-18/07-2019
37	Ayline Sara Thomas	Torc Infotech	14/07/2019-18/07-2019
38	Betsy Benny	Keltron, Kalamassery	04/07/2019-10/07/2019
39	Bimal S Kumar	Torc Infotech	14/07/2019-18/07-2019
40	Binto Binoy	Keltron, Kalamassery	10/07/2019-16/07/2019
41	Chackochi T Inchanattu	Torc Infotech	14/07/2019-18/07-2019
42	Christy Joy	Keltron, Kalamassery	10/07/2019-16/07/2019
43	Cijo Manuel	Keltron, Kalamassery	10/07/2019-16/07/2019
44	Danny Philip Boban	Keltron, Kalamassery	10/07/2019-16/07/2019
45	Devika Bijo	Torc Infotech	14/07/2019-18/07-2019
46	Devika Sabu	Keltron, Kalamassery	10/07/2019-16/07/2019
47	Diya Roy	Technocart	14/07/2019-30/07/2019
48	Dona Sabu	Keltron	10/07/2019-16/07/2019
49	Eby Thomas	Torc Infotech	14/07/2019-18/07-2019
50	Fathima Shenaz	Singularis software technologies kottayam	14/07/2019-18/07-2019
51	Femia Jojo	Aumento Performer's Solution Pvt. Ltd, Palarivattom	08/07/2019-26/07/2019
52	Ferin Mathew	Keltron, Kalamassery	10/07/2019-16/07/2019
53	Geevar L Kuriakose	Singularis Software Technologies	07/09/2019-11/09/2019
54	Govind Krishna M G	Torc infotech	14/07/2019-18/07-2019
55	Govind Prakash	Keltron, Kalamassery	10/07/2019-16/07/2019
56	Haripriya Th	Torc infotech	14/07/2019-18/07-2019
57	Jefferin Jobi	Singularis Software Technologies	07/09/2019-11/09/2019
58	Jexin James	Keltron, Kalamassery	10/07/2019-16/07/2019
59	Jishnu Biju	Technocart	14/09/2020-30/09/2020
60	Joe Mathews	Keltron, Kalamassery	10/07/2019-16/07/2019
61	Joseph Alan Benny	Keltron, Kalamassery	10/07/2019-16/07/2019
62	Jothika Ponnappan	Torc Infotech	14/07/2019-18/07-2019





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Department of Computer Science Engineering

Internship Details(2018-2022 Batch)

Sl. No.	Name	Industry	Duration
63	Karthik Ramesh	Torc Infotech	14/07/2019-18/07-2019
64	Kavya R	Irohut Infotech	15/07/2019-19/07/2019
65	Kevin Prince	Keltron Kalamassery	10/07/2019-16/07/2019
66	Kevin Tom	PACELAB	23/07/2019-28/07/2019
67	Kiran Paul Alex	Torc Infotech	14/07/2019-18/07-2019
68	Linto Tony	Torc Infotech kochi	14/07/2019-18/07-2019
69	Lloyd Mathew	Keltron, Kalamassery	10/07/2019-16/07/2019
70	Malavika Nandagopan	Keltron, Kalamassery	10/07/2019-16/07/2019
71	Maria Benny Kottalil	Torc infotech	14/07/2019-18/07-2019
72	Meenakshi Anil	Torch Infotech	14/07/2019-18/07-2019
73	Meenakshi Sajeevan	Keltron, Kalamassery	10/07/2019-16/07/2019
74	Meera Benny	Aumento Performer's Solution Pvt. Ltd, Palarivattom	08/07/2019-26/07/2019
75	Mintu Joseph	Aumento Performer's Solution Pvt. Ltd, Palarivattom	08/07/2019-26/07/2019
76	Mridani Jayakumar	Keltron, Kalamassery	10/07/2019-16/07/2019
77	Navin Joseph	Torc Infotech	14/07/2019-18/07-2019
78	Nikitha Joemon	Cyfosis cyber solutions	10/07/2019-16/07/2019
79	Nimshida A	Technocart	13/09/2020-29/09/2020
80	Nivya M Babu	Keltron, Kalamassery	10/07/2019-16/07/2019
81	Niya Joy	Keltron, Kalamassery	10/07/2019-16/07/2019
82	Prince Joy	Aumento Performer's Solution Pvt. Ltd, Palarivattom	08/07/2019-26/07/2019
83	Resmi Resheed	PACELAB	23/07/2019-28/07/2019
84	Rohith Kumar S	Cyfosis cyber solutions	10/07/2019-16/07/2019
85	Rubin Sabu	Technocart	14/09/2020-30/09/2020
86	Sangeeth Stanly	Keltron, Kalamassery	10/07/2019-16/07/2019
87	Sebin Joseph	Aumento Performer's Solution Pvt. Ltd, Palarivattom	08/07/2019-26/07/2019
88	Sidhartha Jobies	Keltron, Kalamassery	10/07/2019-16/07/2019
89	Simiya Rajan	Keltron, Kalamassery	10/07/2019-16/07/2019
90	Simna Ummer V U	Keltron, Kalamassery	10/07/2019-16/07/2019
91	Soumya K Sunil	Torc Infotech	14/07/2019-18/07-2019
92	Sovit Johny	Keltron, Kalamassery	10/07/2019-16/07/2019
93	Sreelakshmi Suresh	Torc Infotech	14/07/2019-18/07-2019





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Department of Computer Science Engineering
Internship Details(2018-2022 Batch)

Sl. No.	Name	Industry	Duration
94	Steffi Stephen	Technocart	13/09/2020-29/09/2020
95	Thasneem Khadeeja	Keltron, Kalamassery	10/07/2019-16/07/2019
96	Tony Kurian	Aumento Performer's Solution Pvt. Ltd, Palarivattom	08/07/2019-26/07/2019
97	Tony Tom	Torc Infotech	14/07/2019-18/07/2019
98	Varna K Vinod	Torc Infotech	14/07/2019-18/07/2019
99	Varsha K Vinod	Torc Infotech	14/07/2019-18/07/2019
100	Yakob Johnson	Tecnocart	13/08/2020-29/08/2020



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Department of Computer Science Engineering

Internship Details(2019-2023 Batch)

Sl. No.	Name	Industry	Duration
1	Abel Anil Thayil	Verzeo Edutech	01/04/2020-31/05/2020
2	Adithyakrishnan Nandagopan	Verzeo Edutech	01/04/2020-31/05/2020
3	Alan D Andoar	Internship Studio	16/07/2020-22/07/2020
4	Aleena George	G J INFOTECH	03/08/2020-08/08/2020
5	Ann Mary Joshy	G J INFOTECH	03/08/2020-08/08/2020
6	Ashique A M	Internship Studio	16/07/2020-22/07/2020
7	Diya Anna Varghese	G J INFOTECH	03/08/2020-08/08/2020
8	Evelin Martin	G J INFOTECH	03/08/2020-08/08/2020
9	Hanna Thomas	Industries Tech	01/09/2020-07/09/2020
10	Josu Geo	G J INFOTECH	03/08/2020-08/08/2020
11	Juliya T James	Novitech R&D Pvt Ltd	10/11/2020-12/11/2020
12	Minna Antu	G J INFOTECH	03/08/2020-08/08/2020
13	Niniya Sugathan	Revnin Technologies	02/01/2020-11/01/2020
14	Niranjana Roy	G J INFOTECH	03/08/2020-08/08/2020
15	Sandra Ann Shibu	G J INFOTECH	03/08/2020-08/08/2020
16	Taniya Tijo	G J INFOTECH	03/08/2020-08/08/2020
17	Tess Mary George	G J INFOTECH	03/08/2020-08/08/2020
18	Theresa Mary Suresh	G J INFOTECH	03/08/2020-08/08/2020



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Department of Electrical & Electronics Engineering
Internship Details(2018-2022 Batch)

Sl. No.	Name	Industry	Duration
1	Abhijith Babu	KELTRON	28/12/2020-02/01/2021
2	Abin Baby	KELTRON	28/12/2020-02/01/2021
3	Akash Prakash	TELK	29/12/2020-02/01/2021
4	Ashby Siby	KELTRON	28/12/2020-02/01/2021
5	Athira Sunny	KEL, Mamala	28/12/2020-01/01/2021
6	Ayyappadas K.S	TELK	29/12/2020-02/01/2021
7	Basil Eldhose	RIM Projects	27/12/2020-01/01/2021
8	Basil Saji	KELTRON	28/12/2020-02/01/2021
9	Dona Mary Rigy	TELK	29/12/2020-02/01/2021
10	Greeshma Surendran	KEL, Mamala	28/12/2020-01/01/2021
11	Jeswin Leo Sabu	KELTRON	28/12/2020-02/01/2021
12	Jordy John	KELTRON	28/12/2020-02/01/2021
13	Krishnapriya Saji	KEL, Mamala	28/12/2020-01/01/2021
14	Manas Titto	TELK	29/12/2020-02/01/2021
15	Merin Kuriakose	TELK	29/12/2020-02/01/2021
16	Mileena Thomas	KEL, Mamala	28/12/2020-01/01/2021
17	Muhammed Irish	KELTRON	28/12/2020-02/01/2021
18	Noyal Sebastian	KEL, Mamala	28/12/2020-01/01/2021
19	Robin Roy	KELTRON	28/12/2020-02/01/2021
20	Sachin Denny	KELTRON	28/12/2020-02/01/2021
21	Shahinsha M A	KELTRON	28/12/2020-02/01/2021
22	Shiya Mary	TELK	29/12/2020-02/01/2021
23	Shrine Sabu	RIM Projects	27/12/2020-01/01/2021
24	Sidharth R Nair	KELTRON	28/12/2020-02/01/2021
25	Sreeraj R Mohan	KELTRON	28/12/2020-02/01/2021
26	Yadukrishnan J	KELTRON	28/12/2020-02/01/2021



[Signature]

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Department of Electrical & Electronics Engineering

Internship Details(2019-2023 Batch)

Sl. No.	Name	Industry	Duration
1	Marlya Benny	C-DAC	07/12/2020-11/12/2020
2	Sayana Fathima	Industrus Tech	19/08/2020-23/08/2020

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Department of Electronics and Communication Engineering

Internship Details(2018-2022 Batch)

Sl. No.	Name	Industry	Duration
1	Abhirami Divakaran	Keltron ,Kalamassery	12/07/2019-18/07/2019
2	Ajay Sajeevan	Keltron ,Kalamassery	12/07/2019-18/07/2019
3	Akhiljith Gigi	Keltron ,Kalamassery	12/07/2019-18/07/2019
4	Albin K Biju	Keltron ,Kalamassery	12/07/2019-18/07/2019
5	Alex Antony	Keltron ,Kalamassery	12/07/2019-18/07/2019
6	Alphy Augustine	Keltron ,Kalamassery	12/07/2019-18/07/2019
7	Amala Thomas C	BSNL,Kottayam	15/07/2019-21/07/2019
8	Amritha Jaison	Keltron ,Kalamassery	12/07/2019-18/07/2019
9	Anakha R Nair	Keltron ,Kalamassery	12/07/2019-18/07/2019
10	Anand Renjith Kannan	Rabbitsquare LLP	Feb-March 2020(20hours)
11	Andrews Saji	Keltron ,Kalamassery	10/07/2019-16/07/2019
12	Anju James	Keltron ,Kalamassery	12/07/2019-18/07/2019
13	Anna Varghese	Keltron ,Kalamassery	12/07/2019-18/07/2019
14	Anuja Shaji	Keltron ,Pala	06/07/2019-12/07/2019
15	Arsha Merine Peter	BSNL,Kottayam	15/07/2019-21/07/2019
16	Ayisha Shamsudheen	Keltron ,Kalamassery	12/07/2019-18/07/2019
17	Bindu Vincent	BSNL,Kottayam	15/07/2019-21/07/2019
18	Celine Mary Kurian	Keltron ,Kalamassery	12/07/2019-18/07/2019
19	Devadarsan B	Keltron ,Kalamassery	12/07/2019-18/07/2019
20	Eldhose Raju	Tegnocart Innovations	08/07/2019-24/07/2019
21	Elizabeth V Varghese	Keltron ,Kalamassery	12/07/2019-18/07/2019
22	Feba Ann Kurian	Keltron ,Pala	06/07/2019-12/07/2019
23	Jaimon James	Keltron ,Kalamassery	12/07/2019-18/07/2019
24	Jeffin Mathew	Keltron ,Kalamassery	12/07/2019-18/07/2019





Department of Electronics and Communication Engineering
Internship Details(2018-2022 Batch)

Sl. No.	Name	Industry	Duration
25	Jerin Joji	Keltron ,Kalamassery	12/07/2019-18/07/2019
26	Jisna Jose	Keltron ,Kalamassery	12/07/2019-18/07/2019
27	Jithu Bijeeesh	Keltron ,Kalamassery	12/07/2019-18/07/2019
28	Jose K Joyes	Keltron ,Kalamassery	12/07/2019-18/07/2019
29	Jose P Thomas	Keltron ,Kalamassery	10/07/2019-16/07/2019
30	Krishna Priya Sasi	Keltron ,Kalamassery	12/07/2019-18/07/2019
31	Liya Paul	Keltron ,Kalamassery	12/07/2019-18/07/2019
32	Maria Jain	Keltron ,Kalamassery	08/07/2019-14/07/2019
33	Nandana Shaji	Keltron ,Kalamassery	12/07/2019-18/07/2019
34	Nimitha Johny	Keltron ,Pala	06/07/2019-12/07/2019
35	Nithin Jojo	Keltron ,Kalamassery	12/07/2019-18/07/2019
36	Nivya Johny	Keltron ,Kalamassery	12/07/2019-18/07/2019
37	Rahul Sajeeth Mohan	IROHUB INFOTECH	15/07/2019-19/07/2019
38	Roopana Santhosh	Keltron ,Kalamassery	12/07/2019-18/07/2019
39	Rose Maria Varkey	Keltron ,Kalamassery	08/07/2019-14/07/2019
40	Roshan Raju	Keltron ,Kalamassery	12/07/2019-18/07/2019
41	Roshan Roy	Keltron ,Kalamassery	12/07/2019-18/07/2019
42	Sanal Sabu	Keltron ,Kalamassery	12/07/2019-18/07/2019
43	Sethulakshmi N B	Keltron ,Kalamassery	12/07/2019-18/07/2019
44	Sona Shaju	Keltron ,Kalamassery	12/07/2019-18/07/2019
45	Swetha Sojan	Keltron ,Kalamassery	12/07/2019-18/07/2019
46	Tony Kurian	Keltron ,Kalamassery	12/07/2019-18/07/2019



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Department of Electronics and Communication Engineering
Internship Details(2019-2023 Batch)

Sl. No.	Name	Industry	Duration
1	Akshay Sankar P	Rabbitsquare LLP	Feb-March 2020(20hours)
2	Ananthakrishnan S Nair	Rabbitsquare LLP	Feb-March 2020(20hours)
3	Antony Jose	Rabbitsquare LLP	Feb-March 2020(20hours)
4	Binusree P A	Rabbitsquare LLP	Feb-March 2020(20hours)
5	Celiya Saju	Lakshadweep-STDL	March-May 2020(20hours)
6	Dhilna Biju	Rabbitsquare LLP	Feb-March 2020(20hours)
7	Elezabeth Mariya Saji	Rabbitsquare LLP	Feb-March 2020(20hours)
8	Giya Baby	Rabbitsquare LLP	Feb-March 2020(20hours)
9	Joyal Johnson	Rabbitsquare LLP	Feb-March 2020(20hours)
10	Maria Sabu	Rabbitsquare LLP	Feb-March 2020(20hours)
11	Sebin Jaison	Rabbitsquare LLP	Feb-March 2020(20hours)
12	Shinitha Joseph	C-DAC	07/12/202-11/12/2020



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Department of Information Technology

Internship Details(2018-2022 Batch)

Sl. No.	Name	Industry	Duration
1	Aiswarya Baiju	Rabbitsquare	15/07/2019-26/07/2019
2	Akhila Jojo	Rabbitsquare	15/07/2019-26/07/2019
3	Arjun Suresh	The Cyber Agents	12/08/2020-20/08/2020
4	Devika T S	Rabbitsquare	15/07/2019-26/07/2019
5	Erica S Mampilli	Infox Technologies	08/06/2019-25/07/2019
6	Harsha Thomas	Infox Technologies	08/06/2019-25/07/2019
7	Irene meriyam jos	Infox Technologies	08/06/2019-25/07/2019
8	Keerthy Sivadas	Infox Technologies	08/06/2019-25/07/2019
9	Ninu Job	Infox Technologies	08/06/2019-25/07/2019
10	Rajan Bobby Geo	Forge	20/08/2020-20/09/2020

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Department of Information Technology

Internship Details(2019-2023 Batch)

Sl. No.	Name	Industry	Duration
1	Anna Susan Jose	GJ Infotech (P) Ltd.	03/08/2020-08/08/2020
2	Leona Maria Jose	GJ Infotech (P) Ltd.	03/08/2020-08/08/2020
3	Roshan Eldho Roy	ICT Academy Kerala	03/09/2019-12/09/2019
4	Smruthi Babu	GJ Infotech (P) Ltd.	03/08/2020-08/08/2020



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Department of Mechanical Engineering
Internship Details(2018-2022 Batch)

Sl. No.	Name	Industry	Duration
1	Aasher Viju P	Kerala State Road Transportation	10-7-19 to 14-7-19
2	Abhijith Shibu	Keltron, Kalamassery	19-8-19 to 25-8-19
3	Abil Justin	Kamco, Kalamassery	26-07-19 to 31-07-19
4	Ajesh Shah	Keltron, Kalamassery	22-07-19 to 28-07-19
5	Akash Thomas	Gemseal Abhilash Industries, Kalamassery	16-07-19 to 26-07-19
6	Alan Shaji	Keltron, Kalamassery	22-07-19 to 28-07-19
7	Albert Dennys	Kamco, Kalamassery	26-07-19 to 31-07-19
8	Albin Roy	Keltron, Kalamassery	19-8-19 to 25-8-19
9	Alby Jose	Keltron, Kalamassery	19-8-19 to 25-8-19
10	Amal Mathew Sajan	Keltron, Kalamassery	22-07-19 to 28-07-19
11	Amal Sathyan	Kamco, Kalamassery	26-07-19 to 31-07-19
12	Arun Krishna V	Gemseal Abhilash Industries, Kalamassery	16-07-19 to 26-07-19
13	Athul M Nair	Keltron, Kalamassery	19-8-19 to 25-8-19
14	Austin Baby	Fertilisers And Chemicals Travancore Limited	15-07-19 to 27-07-19
15	Basil Joy	Gemseal Abhilash Industries, Kalamassery	16-07-19 to 26-07-19
16	Basil P Sajeev	Keltron, Kalamassery	19-8-19 to 25-8-19
17	Basil Shaji	Kamco, Kalamassery	26-07-19 to 31-07-19
18	Cyriac Jacob	Keltron, Kalamassery	19-8-19 to 25-8-19
19	Deepak Thomas	Keltron, Kalamassery	19-8-19 to 25-8-19
20	Devanarayanan S	Kamco, Kalamassery	26-07-19 to 31-07-19
21	Deyon Wilson	Jocyt Aerospace, Olamattom	12-07-19 to 22-07-19
22	Don George Alex	Nestle India Limited, Choladi Factory, Cherambadi	15-07-19 to 25-07-19
23	Fredin Johnson	Jocyt Precomp, Olamattom	19/07/2019-29/07/2019
24	George Jovan	Keltron, Kalamassery	19-8-19 to 25-8-19
25	George Martin	Keltron, Kalamassery	19-8-19 to 25-8-19
26	George Mathew	Gemseal Abhilash Industries, Kalamassery	16-07-19 to 26-07-19
27	Georgekutty Joseph	Keltron, Kalamassery	19-8-19 to 25-8-19
28	Georgey Emmanuel Bastian	Kamco, Kalamassery	26-07-19 to 31-07-19
29	Gokul K Vijayan	Jocyt Precomp, Olamattom	19/07/2019-29/07/2019





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Department of Mechanical Engineering

Internship Details(2018-2022 Batch)

Sl. No.	Name	Industry	Duration
30	Goodwin Martin	Keltron, Kalamassery	19-8-19 to 25-8-19
31	Goutham Gopinathan	Kerala State Road Transportation	10-7-19 to 14-7-19
32	Goutham Krishna M S	Keltron, Kalamassery	22-07-19 to 28-07-19
33	Harigovind S	Kel, Mamala	17-07-19 to 24-07-19
34	Harikrishnan M G	Kamco, Kalamassery	26-07-19 to 31-07-19
35	Harshil James	Keltron, Kalamassery	22-07-19 to 28-07-19
36	Jibin George	Kerala State Road Transportation	10-7-19 to 14-7-19
37	Jismon V J	Keltron, Kalamassery	19-08-19 to 25-08-19
38	Joel Babu	Travancore Cements, Nattakom	15-07-19 to 25-07-19
39	Johns T Somy	Jocyt Aerospace, Olamattom	12-07-19 to 22-07-19
40	Joseph Salas	Keltron, Kalamassery	19-8-19 to 25-8-19
41	Joseph Thomas	Kerala State Road Transportation	10-7-19 to 14-7-19
42	Joyal Johnson	Keltron, Kalamassery	19-08-19 to 25-08-19
43	Judson Jose	Kerala State Road Transportation	10-7-19 to 14-7-19
44	M Harisankar	Kamco, Kalamassery	26-07-19 to 31-07-19
45	Manu Antony	Gemseal Abhilash Industries, Kalamassery	16-07-19 to 26-07-19
46	Mathew C Vamattam	Keltron, Kalamassery	19-8-19 to 25-8-19
47	Mathew Mathew George	Travancore Cements, Nattakom	15-07-19 to 25-07-19
48	Mathew Raj	Fertilisers And Chemicals Travancore Limited	15-07-19 to 27-07-19
49	Melvin Eldo	Keltron, Kalamassery	19-8-19 to 25-8-19
50	Milen Maxy Pattarumadathil	Kamco, Kombathukadavu	26-07-19 to 31-07-19
51	Muhamed Fardeen	Kerala State Road Transportation	10-7-19 to 14-7-19
52	Nayan Rajeev	Fertilisers And Chemicals Travancore Limited	15-07-19 to 27-07-19
53	Nigel Mathew	Travancore Cements, Nattakom	15-07-19 to 25-07-19
54	Nikhil Sanoj	Keltron, Kalamassery	19-8-19 to 25-8-19
55	Nimitha Johnney	Kamco, Kalamassery	26-07-19 to 31-07-19
56	Paul Baby	Keltron, Kalamassery	19-08-19 to 25-08-19
57	Peter K George	Keltron, Kalamassery	19-08-19 to 25-08-19
58	Pranav Lal V.R	Fertilisers And Chemicals Travancore Limited	15-07-19 to 27-07-19





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Department of Mechanical Engineering
Internship Details(2018-2022 Batch)

Sl. No.	Name	Industry	Duration
59	Priyana Sunny K	Autocast, Cherthala	06-07-19 to 16-07-19
60	Rishikesh V K	Keltron, Kalamassery	22-07-19 to 28-07-19
61	S Abhinav Basil	Kalady Rice Millers Corporation, Kalady	18-07-19 to 28-07-19
62	Sam George Thomas	Keltron, Kalamassery	22-07-19 to 28-07-19
63	Shon Wilson	Travancore Cements, Nattakom	15-07-19 to 25-07-19
64	Sidharth T S	Keltron, Kalamassery	19-8-19 to 25-8-19
65	Snobin Mathew	Travancore Cements, Nattakom	15-07-19 to 25-07-19
66	Thomas T Poullose	Metrolla Steels Ltd, Muvattupuzha	16-07-19 to 27-07-19
67	Tom Thomas	Travancore Cements, Nattakom	15-07-19 to 25-07-19
68	Vaisakh Jayan	Keltron, Kalamassery	19-8-19 to 25-8-19
69	Varghese Mathew	Travancore Cements, Nattakom	15-07-19 to 25-07-19
70	Vinu K Vijayan	Keltron, Kalamassery	19-8-19 to 25-8-19
71	Vishnu Raju	Keltron, Kalamassery	19-8-19 to 25-8-19
72	Vishnu T P	Travancore Cements, Nattakom	15-07-19 to 25-07-19



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Internship Details(2019-2023 Batch)

Sl. No.	Name	Industry	Duration
1	Abin Cheriyan	Industrus Tech	10/08/2020-23/08/2020
2	Ashin K Sunny	Decibels Lab pvt. Ltd	07/09/2020-03/10/2020
3	Geo Francis	Artefacts	07/10/2019-10/10/2019



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Vazhakulam P.O., Muvattupuzha, Kerala-686 670



VISWAJYOTHI

COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University

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Established in 2001
Managed by Catholic Diocese Kothamangalam



Department of Management Studies

Internship Details(2019-2021 Batch)

Sl. No.	Name	Industry	Duration
1	Alswarya K S	Kodungallur town co-operative bank, Methala	02/12/2020 - 28/01/2021
2	Ajay Mohan	Future retail limited	08/12/2020 - 31/01/2021
3	Akhil Babu	Illumine energy solutions	01/12/2020 - 13/02/2021
4	Akhila Anirudhan	ESAF Small Finance bank	03/12/2020 - 30/01/2021
5	Aksa Sara Joseph	Learnovate ecommerce	14/12/2020 - 14/01/2021
6	Akshai Joshy	Meat products of India LTD	11/12/2020 - 19/02/2021
7	Amal Dominic	Goodoor Industries PVT LTD	01/03/2020 - 01/05/2020
8	Anjali Venugopal	Learnovate ecommerce	30/11/2020 - 30/12/2020
9	Annu Santy	Nirmala medical centre	03/12/2020 - 20/01/2021
10	Anto George	JCC & Associates chartered accounts	15/12/2020 - 19/01/2021
11	Athulya M.R	FACT	14/12/2020- 13/01/2021
12	Chandana Pramod	ESAF Small Finance bank	03/12/2020 - 30/01/2021
13	Fazil Shamsudheen	Illumine energy solutions	01/12/2020 - 13/02/2021
14	Hemi Km	Kodungallur town co-operative bank, Methala	02/12/2020 - 28/01/2021
15	Jaseela Jabbar	More retail private LTD	05/12/2020 - 28/02/2021
16	Jeemon T D	Learnovate ecommerce	30/11/2020 - 30/12/2021
17	Jerry C James	Future retail limited	08/12/2020 - 31/01/2021
18	Jestina Jose	Nirmala medical centre	03/12/2020 - 20/01/2021
19	Jewel George Benny	The peramangalam service co-op bank	25/11/2020 - 28/12/2020
20	Jobin James	Goodoor Industries PVT LTD	01/03/2020 - 01/05/2020
21	Joel Thaliyachira John	Future retail limited	08/12/2020 - 31/01/2021
22	Libin Mathew	Brahmagiri Development society Wayanad	17/11/2020 - 17/12/2020
23	Lino Saju	Future retail limited	08/12/2020 - 31/01/2021
24	Maria Scaria	Perfect Honda pothen vehicles and services Pvt Ltd	04/12/2020 - 30/01/2021
25	Nowfal Basheer	Illumine energy solutions	01/12/2020 - 13/02/2021
26	Rohith R	TNR constructions & Developers	01/12/2020 - 01/02/2021
27	Rony Joseph	The thoprankudy service Co-operative bank	02/12/2020 - 28/01/2021
28	Roshny Benny	Nirmala medical centre	03/12/2020 - 20/01/2021
29	Rosmy Roy	Mar Baselios Mission hospital	08/12/2020 - 29/01/2021





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30	Sreemol Km	Future retail limited	08/12/2020 - 31/01/2021
31	Sruthy Joby	Fairview Business Consulting LLP	01/12/2020 - 30/01/2021
32	Unnikrishnan Rajan	Cindrebay School of Fashion & Interior Design	08/12/2020 - 05/02/2021
33	Vijayalakshmi P S	More retail private LTD	05/12/2020 - 28/02/2021
34	Vincent Jose	ACC Limited	17/11/2020 - 17/12/2020
35	Vinny Moni James	IDS Denmed Private Limited	09/12/2020 - 08/02/2021

Dr. K.K. Rajan
Principal
Viswajyothi College of Engineering & Technology
Vazhakulam P.O., Muvattupuzha, Kerala-686 670



INTERNSHIP REPORT

Submitted By,

AKASH PRAKASH

AYYAPPADAS K S

DONA MARY RIGY

MANAS TITTO

MERIN KURIAKOSE

SHIYA MARY

In partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY
IN**

ELECTRICAL AND ELECTRONICS ENGINEERING



**VISWAJYOTHI COLLEGE OF ENGINEERING AND
TECHNOLOGY**

VAZHAKULAM

Affiliated to,
APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

2018 – 2022 BATCH

VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY

VAZHAKULAM

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



BONAFIDE CERTIFICATE

This is to certify that the industrial training report is the bonafide report of work done by, **AKASH PRAKASH(VJC18EE003), AYYAPPADAS K S(VJC18EE011) , DONA MARY RIGY(VJC18EE014), MANAS TITTO(VJC18EE017), MERIN KURIAKOSE(VJC18EE019) and SHIYA MARY(VJC18EE0)** of fifth semester, Electrical and Electronics Engineering in partial fulfillment for the degree of Bachelor of Technology in Electrical and Electronics Engineering of APJ Abdul Kalam Technological University.

Smitha

Ms. Smitha Jacob
Faculty in charge



Baruna

Dr. B ARUNA
Head of the Department

VISWAJYOTHI COLLEGE OF ENGINEERING AND TECHNOLOGY

VAZHAKULAM

VISION

Moulding Professionals par Excellence with Integrity Fairness and Human Values

MISSION

- We commit to develop the institution as a Center of Excellence of International Standards.
- We guide our students in the attainment of intellectual and professional competence for successfully coping with the rapid advancements in technologies and the ever changing world of business, industry and services.
- We help each and every student in their personal growth into mature and responsible individuals.
- We strive to cultivate a sense of social and civic responsibility in our students, thus empowering them to serve the humanity.
- We promise to ensure a free environment where quest for the truth is encouraged.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VISION

Mould globally competent Electrical and Electronics Engineers.

MISSION

1. To provide the best academic ambiance.
2. To develop technical and soft skills to cope up with the emerging global scenario.
3. To enhance knowledge by industry and alumni interaction.



PROGRAM OUTCOMES

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design / development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to ones own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning :** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change



PROGRAM EDUCATIONAL OBJECTIVES

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Our Graduates shall have:

1. Foundation in mathematical, analytical and scientific skills to design technically and economically viable engineering solutions.
2. Culture and attitude of team work, to help in upbringing socially committed Entrepreneurs engaged in lifelong learning.
3. Professional communication skills, social values and work ethics.

PROGRAM SPECIFIC OUTCOMES

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

1. Ability to apply fundamentals of Engineering in analyzing multidisciplinary issues, developing solutions with professional and ethical responsibilities, and promoting conventional and unconventional methods for higher research.
2. Ability to apply Electrical Engineering knowledge to perform Circuit analysis, troubleshoot Electrical machines and optimize Power Systems designs by incorporating analog and digital controls.

ACKNOWLEDGEMENT

We express our sincere gratitude towards Prof. Mary George, Head of the department of Electrical and Electronics Engineering, for giving us her invaluable knowledge and excellent technical guidance. We would like to express my sincere thanks to Mrs Radhika R, Assistant Professor for her kind cooperation and guidance. We also thank all other faculty members of the electrical and electronics Department and Our friends for their help and support. We wish to express Our deep sense of gratitude to all the employees of TELK, Angamaly for their overall direction and guidance during the training program. Last but not the least we thank the god almighty for having made Our endeavour successful.

We are extremely grateful to the principal Viswajyothi College of Engineering and Technology, Dr K K Rajan and Head of the Electrical and Electronics Engineering Department, Dr. B Aruna for their kind cooperation in all aspects of our training program.

It is with great pleasure that we express our deepest thanks to my tutor and Assistant Professor Ms. Smitha Jacob of Electrical and Electronics Engineering Department for her invaluable support throughout this endeavor.

We are also greatly indebted to our peers and all those who have, knowingly or unknowingly helped us to complete the industrial training successfully.

AKASH PRAKASH

APPADAS K S

DONA MARY RIGY

MANAS TITTO

MERIN KURIAKOSE

SHIYA MARY

CHAPTER 1

INTRODUCTION

Transformers and Electrical Kerala Limited (TELK) is located at Cochin, Kerala State, in the southern tip of India. TELK manufactures Extra High Voltage Power Transformers (upto 315MVA, 420kV) and other equipments (CT, PT, SF6 Circuit Breakers and reactors). The company has technical as well as financial collaboration with Hitachi Ltd., Japan from 1965.

Generation of electrical power in low voltage level is very much cost effective. Hence electrical power is generated in low voltage level. Theoretically, this low voltage level power can be transmitted to the receiving end. But if the voltage level of a power is increased, the electric current of the power is reduced which causes reduction in ohmic or I^2R losses in the system, reduction in cross sectional area of the conductor i.e. reduction in capital cost of the system and it also improves the voltage regulation of the system. Because of these, low level power must be stepped up for efficient electrical power transmission. This is done by step up transformer at the sending side of the power system network. As this high voltage power may not be distributed to the consumers directly, this must be stepped down to the desired level at the receiving end with the help of step down transformer. These are the uses of electrical power transformer in the electrical power system.

CHAPTER 2

TELK LANDMARKS

- First 420kV transformer in India in 1978
- 4 x 150 MVA 420/220kV single phase Auto transformers to Panipat Substation, BCB
- 4 x 83.3 MVA 420/220kV single phase Tie Transformers to Slapper, BCB
- 600 MVA (3 x Single Phase Bank) for India's first 500MW Thermal Power Station at Trombay for TATA
- India's First 420kV SF6 breaker in 1979 to MHSEB/MPEB
- Installed Largest Capacity Generator Transformer in India 630MVA Transformers (3 x Single phase Bank) India's first 400kV, 500MW Nuclear Power Station at Tarapur in 2003
- TELK has become the first Power equipment manufacturer in who have conducted short circuit Test on 315MVA, 400/220/33kV Transformer having 1425 kVp Basic Insulation Level, at KEMA Netherlands with first attempt. We were given an overall idea of the TRANSFORMER CONSTRUCTION at the TELK under the able supervision of various employees from each shops there.

CHAPTER 3

TELK WORKSHOPS

The main shops there we have been to:

CORE SECTION

This section deals with the procedure of fabrication CRGO, lamination, assembly of transformer core and manufacture of ring core for current transformer, tank sheet and lamination for PT. The various activities in the core section are listed below.

- Receiving the CRGO material from authorized suppliers through stores department, with RV (Receipt Voucher) and supplier's test report.
- Study the production program issued by production planning department and accordingly arrange the material, man, machine, space, etc., for the optimum utilization to achieve the target.
- Receiving all the manufacturing drawings, specification from production planning department.
- Study of core details from related drawing of each manufacturing order, specification or deviations.
- Corrections are found out and brought to notice.
- Study of slitting schedule issued by production planning department and issue a short slitting.

Slitting:

This is the process of cutting the CRGO coil into different widths. This process is done in gang slitting line. After slitting operation separate tags will be affixed inside and outside of the coil containing all the details for identification.

Mitring:

This is the process of cutting slit widths into required design shape such as the trapezium, parallelogram, rectangle, etc., are specified in the core cutting drawing. The selection of Mitre Shear Line (MSL) is done according to the angle specification detailed in the core cutting drawing. There are five numbers of MSL in core shop. MSL I and MSL IV - 45° angles MSL II and MSL V - 40°, 45°, 50° angles MSL III – 90°, 40°, 50°, 45° angles ASL (Automatic Shear Line) is used for rectangular shape sheets.

End Shearing or Notching:

Nibbling of corner as per core cutting drawing is called shearing. Square shear are used for this purpose.

De-burring:

A process to remove burrs on mitred portion is called de-burring. Check the burr after every 200 lamination with a tolerance level less than 0.02 mm.

Annealing:

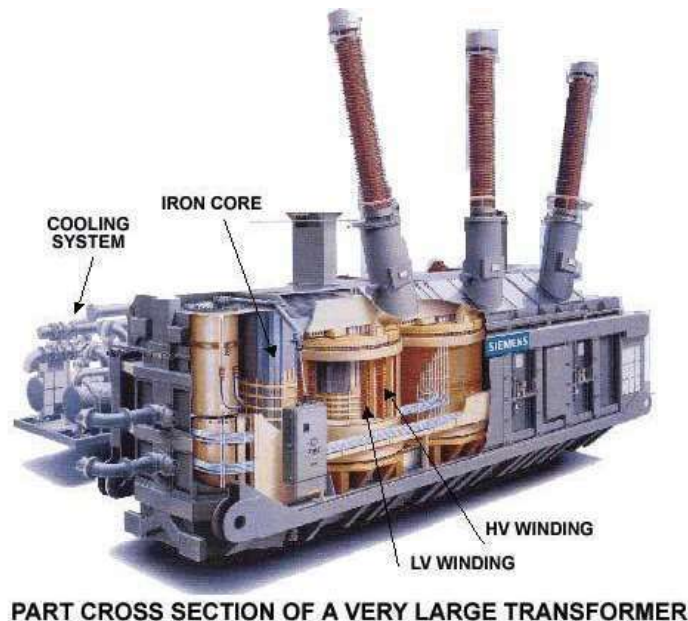
Stresses are introduced into silicon steels whenever they are slitted or sheared into laminations. These stresses have an adverse effect on magnetic properties, such as core loss and permeability in order to relieve the stress and restore the original magnetic properties annealing is necessary. It also reduces the effect of sharp work edges and improves flatness.

Sorting: The finished laminations for transformer assembly are arranged in wooden planks in order to the sequence of steps as per sheet arrangement drawing. This process is called sorting. The fabrication stage of core is completed when the sorting job is over.

CHAPTER 4

CORE WINDING AND INSULATION

Generally, rectangular Paper Covered Copper Conductors (PCC) is used for winding. For very high power transformers continuously transposed conductors (CTC) are used. CTC is made of a bunch of rectangular enamelled copper conductors which are transposed and then covered with electrical grade Kraft paper. This reduces the copper loss and size of winding. The copper conductors are made from Electrolytic Tough Pitched (ETP) copper and are of high annealed copper.



Winding Classifications:

Transformer coils can be classified as circular or rectangular depending on the crosssection of core limb. According to the arrangement of coils it can be classified as concentric or sandwich coils. As far as large transformers are concerned only concentric windings are used which are mainly classified as helical, cylindrical and continuous disc winding.

Helical Windings:

- Used for relatively low voltage and high current rating transformers
- Coils are wound like a helical spring with several conductors arranged in single or multiple groups and connected in parallel.
- The conductors are transposed at intervals.

Cylindrical windings:

- Used for low voltage coils of low voltage transformers
- Similar to helical winding with no separation between groups or turns with radial spacers and this represents a cylindrical form.

Continuous Disc Winding:

- Used for high voltage windings.
- Coils sections are separated by radial spacers
- Radial spacers locked to the axial spacers separate disc coil sections and establish oil directs branching from the main axial ducts inside the winding.

Insulating Materials:**Kraft Paper:**

The Kraft paper is made entirely from wood pulp. The tensile strength of paper shall not be less than 55MN/m² in the longitudinal direction and 20MN/m² in the transverse direction.

Press Board:

Used in insulating transformer windings. Press board is used for making winding cylinders, axial and radial spacers, oil ducts, oil guide rings, etc. The breakdown voltage of the press board is greater than 20kV/mm (in oil)

Tetron Cord:

It is used in power transformer to tie together various leads and insulating structures. The cord has high shrinkage property to avoid loose knot. The minimum shrinkage must be 5%

.

Poly Vinyl Alcohol (PVA) Solution:

It is used as an adhesive agent for pasting various insulation items. It is a derivative of acetylene family and soluble in water.

CHAPTER 5

OIL AND DRYING SHOP

Oil and Drying shop is assigned with the task of oil impregnation, proper drying and cleaning of the transformer and its various parts. Drying is done using vacuum as well as hot dry air. Thermistors are used to measure the temperature of transformer winding and core. Hot air circulation is continued till the temperature rises to 100° C at the top of the coil. Time required for vacuum drying varies depending on type insulation required. 9 Oil filling is done under vacuum. Before filling the quality of the oil has to be checked. In order to remove foreign materials trapped in the coil during manufacturing and processing stages like cotton threads, dust, etc flushing of oil is done. The temperature is maintained at 60° to 80° C which helps in better impregnation and saves processing time.

CT, PT AND BUSHINGS SHOP

CURRENT TRANSFORMERS (CT)

TELK manufactures hermetically sealed, oil impregnated, paper insulated and oil filled outdoor type current transformers up to 400 kV. The winding and insulation of 400 kV current transformers are carried out in humidity controlled, dust free atmosphere. Current Transformers with primary current up to 2000A has been manufactured. Specific design will be used for current ratings over 2000A. The standard rated secondary current is 5A or 1A. However, CT with any other secondary current rating can also be manufactured. The CT consists of primary and secondary coils and core. The magnetic circuit is constructed in the form of rings with CRGO or Ni alloy. Each secondary coil is wound over an insulated core and the insulation passes through this ring. Insulation is provided by wrapping high quality insulating papers. The primary has high volt type construction. The insulated primary winding pass through the porcelain and primary leads are taken out through small terminal bushings fixed to the sides of expansion chamber on the upper end of the porcelain. The secondary terminals are brought out and terminated in a term box fitted in a board. The CT can be provided with up to five cores depending upon the auxiliary circuits and current ratings required



CHAPTER 6

POTENTIAL

TRANSFORMERS (PT)

TELK manufactures hermetically sealed, oil impregnated paper insulated, oil filled, porcelain type outdoor electromagnetic potential transformers up to 245 kV. Potential Transformer (PT) manufactured is suitable for connection between the line and effectively earthed systems. The standard secondary voltage is 110V and $110/\sqrt{3}$ V. The grounding type PT consist of primary and secondary/tertiary winding, core, lower tank and expansion chamber/ The core is made of CRGO steel and has three limbed construction. The secondary/tertiary and primary terminals are wound concentrically around the core. The assembly is placed in a tank. The secondary/tertiary terminals are brought out and terminated in a terminal box fitted to the side of the tank. The terminals of the primary winding is brought out through a small bushing and connected to the tank.

BUSHING

TELK manufactures hermetically sealed, oil impregnated paper condenser bushings 52kV - 420 kV voltage class and rated current up to 3150A with standard dimensions/customer requirements. The Oil impregnated paper insulated bushings are used to connect overhead lines to transformer. This is mounted on transformer in vertical or horizontal position at a maximum inclination of 30° from vertical. The active part of bushing consists of a condenser body build up around a centre tube using high quality Kraft papers. A disk spring assembly is located in the top housing holds all synthetic rubber gaskets and O-rings between porcelain and metal parts under controlled pressure, completely sealing the bushing.. An oil sight window is provided in the expansion chamber for observing the oil level. The space in the expansion chamber above oil is filled with dry nitrogen gas. Due to the hermetic sealing the bushings are maintenance free and non-susceptible to aging. Oil Impregnated Paper (OIP) type high voltage condenser bushings were manufactured by TELK in 1970. The instrumentation transformer for rated voltage up to and including 220kV are dispatched in wooden crates in the vertical position 400kV instrumentation transformers are dispatched in the horizontal position with a special oil seal to prevent contact of nitrogen gas with paper insulation. Instrumentation transformer is dispatched in a completely assembled state. In order to keep the unit hermetically sealed the flanged joints with gaskets in between shall not be tampered with, the cover of the secondary terminal box alone needs to be opened for giving connection. In case of heavy pollution deposits due to surroundings atmospheric conditions primary periodic external cleaning of the porcelain insulators and the exposed surfaces is recommended. The winding and insulation of 400kV equipments are carried out in humid condition and dust free atmosphere. Insulation for this voltage class is applied by specially designed taping machines. TELK was the first in India to manufacture 420 kV oil impregnated paper condenser bushings in the year 1970

.CHAPTER 7

ON LOAD TAP CHANGER

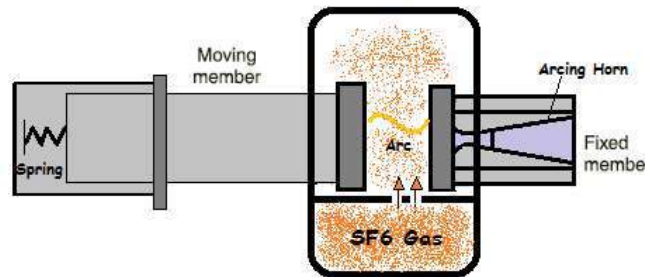
In larger electrical power transformer, for proper voltage regulation of transformer, on load tap changer is required. Various types of On Load & Off Load Tap changers are offered to suit the number of taps, current rating, step voltage and number of poles. TELK make on load tap changers are resistor transition equipments which are used to vary the ratio of oil immersed transformers under load. In general they are designed for network transformers as well as industrial transformer applications. The tap changers are designed to give reliable service under the most arduous conditions which occur on electrical power systems. TELK Tap changers are designed such that power flow can be handled in either direction at full rated current. The tapping arrangement, is placed in separate divertor tank attached to electrical power transformer main tank. Inside this tank, the tap selectors are generally arranged in a circular form. The divertor switches have contacts operating in rapid sequence with usually four separate make and break units. When the tap changer has several tapplings it is advantageous to halve the length of tapping winding and to introduce a reversing over changeover selector.



GAS CIRCUIT BREAKER (GCB)

A circuit breaker is equipment which can open or close a circuit under normal as well as fault conditions. It can operate manually as well as remote control under normal condition and automatically under fault condition. Gas Circuit breakers are circuit breakers in which

the medium is gas. The commonly use GCB is SF₆ GCB. SF₆ is used as the medium because of its excellent insulating property. Properties of SF₆ are:



- Odourless, colourless, non-toxic and non-flammable gas.
- It's 5 times denser than air at NTP.
- High dielectric strength, exceptional arc quenching ability and excellent thermal stability.
- Capability of SF₆ molecules to re-associate after breakdown.
- Even under severe fault conditions, no conductive decomposition products are formed. GCB has separate air reservoir and driving mechanism for each pole and interconnected with copper pipe for compressed air system. The hollow supporting insulator column and interrupt column is filled with SF₆ gas at 6kg/cm³. The breaker is provided with unit air compressor for its compressed air requirements.

PLATE WORKS SHOP & METAL SHOP

The body of the transformer and other equipments are manufactured in the plate works shop. Mild steel are used for making the different parts. They are cut into the desired shapes by employing gas cutting or shear cutting. The pieces are welded together to form the structure. For the protection of the tank surface a protective coating is provided. The surface is grit blasted to remove rust.

FINAL ASSEMBLY

The various parts of the transformer are collected and assembled here. After the final assembly transformer is sent for some testing purposes.

CHAPTER 8

TESTING AND MEASUREMENT

TELK has got the whole range of equipments for conducting tests for power and instrument transformers. 3 million volts impulse Generator, 800kV EHV testing transformer, 500kV testing transformer, 900kV peak volt meter, Partial discharge detectors on all the test systems to automatically monitor partial discharge of the products, Material laboratory, Oil laboratory etc are some of the facilities at the test laboratory for tests conducted as per Indian standards/ IEC/ or British Standards/ ANSI / NEMA.

Insulation Resistance Measurement:

Insulation resistance is a useful indication as to whether the apparatus is in a suitable condition for performing dielectric test. The test voltage shall be selected such that it does not exceed the rated line to earth voltage of the winding.

BCT & OLTC Continuity Check:

BCT continuity check is done using a continuity tester. OLTC continuity check is done using voltmeter in one winding keeping the other winding placed as a convenient level.

Winding Resistance Measurement:

Winding resistance measured is required for computing load losses, regulation and efficiency of transformer.

Partial Discharge Measurement:

A partial discharge is an electrical discharge following ionization that only partially bridges the insulation between conductors. The test is performed at a higher frequency to reduce the excitation level.

Voltage Ratio Measurement and Voltage Vector Relationship

: Voltage ration error measurement is done using a transformer turns ration meter. A low voltage is applied to the low voltage side of the transformer under test and the standard transformer and the voltage induced on the low voltage side is compared with a galvanometer. The fine tapping of the standard transformer is adjusted until the galvanometer indicates minimum deflection. The % ratio error ($\% \text{ ratio error} = (\text{Design ratio} - \text{Measured ratio} \times 100) / \text{Design ratio}$) can be read directly on the instrument dials.

CHAPTER 9

CONCLUSION

Transformers And Electricals Kerala Limited is one among the prestigious industries of Kerala. The industry plays a vital role in the power distribution system of countries like Oman. The Internship gave us the idea of construction of Transformers, the major component in power generation and distribution.