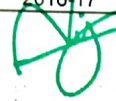


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1.3.2.1. Number of courses that include experiential learning through project work/field work/internship- 2016-17

Sl No	Name of the course	students	Department	Date	Year	Duration
1	Advanced Mechanics of Materials	12	ME	Jan 4	2016-17	6 Months
2	Computer Aided Design & Manufacturing	8	ME	Jan 4	2016-17	6 Months
3	I.C.Engines & Combustion	20	ME	Jan 4	2016-17	6 Months
4	Introduction to Mechanical Engineering Sciences	1	ME	Jan 4	2016-17	6 Months
5	Advanced Machine tool lab	4	ME	Jan 4	2016-17	6 Months
6	Advanced Mechanics of Solids	1	ME	Jan 4	2016-17	6 Months
7	Automobile engineering	8	ME	Jan 4	2016-17	6 Months
8	Basics of Civil Engineering	2	ME	Jan 4	2016-17	6 Months
9	Basics of Electrical Engineering	1	ME	Jan 4	2016-17	6 Months
10	Basics of Electronics Engineering	2	ME	Jan 4	2016-17	6 Months
11	Business Mathematics	1	ME	Jan 4	2016-17	6 Months
12	Business Practice and Industrial Economics	1	ME	Jan 4	2016-17	6 Months
13	CAD/CAM Lab	8	ME	Jan 4	2016-17	6 Months
14	Calculus	1	ME	Jan 4	2016-17	6 Months
15	Civil Engineering Workshop	2	ME	Jan 4	2016-17	6 Months
16	Computer Aided Machine Drawing Lab	1	ME	Jan 4	2016-17	6 Months
17	Design and Engineering	1	ME	Jan 4	2016-17	6 Months
18	Design of Machine Elements	20	ME	Jan 4	2016-17	6 Months
19	Design of Transmission Elements	8	ME	Jan 4	2016-17	6 Months
20	Differential Equations	2	ME	Jan 4	2016-17	6 Months
21	Dynamics of Machines	16	ME	Jan 4	2016-17	6 Months
22	Electrical Engineering Workshop	1	ME	Jan 4	2016-17	6 Months
23	Electronics Engineering Workshop	2	ME	Jan 4	2016-17	6 Months
24	Engineering Chemistry	1	ME	Jan 4	2016-17	6 Months
25	Engineering Chemistry Lab	1	ME	Jan 4	2016-17	6 Months
26	Engineering Graphics	1	ME	Jan 4	2016-17	6 Months
27	Engineering Mechanics	1	ME	Jan 4	2016-17	6 Months
28	Engineering Physics	2	ME	Jan 4	2016-17	6 Months
29	Engineering Physics Lab	2	ME	Jan 4	2016-17	6 Months
30	Financial Management and Ac ing	1	ME	Jan 4	2016-17	6 Months
31	Fluid Machinery	1	ME	Jan 4	2016-17	6 Months
32	Fluid Mechanics & Machines Lab	1	ME	Jan 4	2016-17	6 Months
33	Gas Dynamics & Jet Propulsion	8	ME	Jan 4	2016-17	6 Months
34	Heat & Mass transfer	11	ME	Jan 4	2016-17	6 Months
35	Human Resource Management	1	ME	Jan 4	2016-17	6 Months
36	Industrial Engineering	4	ME	Jan 4	2016-17	6 Months
37	Industrial Engineering Lab	1	ME	Jan 4	2016-17	6 Months
38	Industrial Training	1	ME	Jan 4	2016-17	6 Months
39	Kinematic of Machinery	4	ME	Jan 4	2016-17	6 Months
40	Knowledge Management	1	ME	Jan 4	2016-17	6 Months
41	Linear Algebra & Complex Analysis	2	ME	Jan 4	2016-17	6 Months



42	Manufacturing Technology	1	ME	Jan 4	2016-17	6 Months
43	Material Testing Lab	1	ME	Jan 4	2016-17	6 Months
44	Materials & Supply Chain Management	1	ME	Jan 4	2016-17	6 Months
45	Mechanical Engineering Workshop	1	ME	Jan 4	2016-17	6 Months
46	Mechanical Measurements Lab	4	ME	Jan 4	2016-17	6 Months
47	Mechanical Systems Lab	4	ME	Jan 4	2016-17	6 Months
48	Mechanics of Fluids	2	ME	Jan 4	2016-17	6 Months
49	Mechanics of Machines	4	ME	Jan 4	2016-17	6 Months
50	Mechanics of Solids	2	ME	Jan 4	2016-17	6 Months
51	Mechatronics and A Control Systems	8	ME	Jan 4	2016-17	6 Months
52	Metallurgy and Materials Engineering	1	ME	Jan 4	2016-17	6 Months
53			ME	Jan 4	2016-17	6 Months
54	Metrology & Machine Tools	12	ME	Jan 4	2016-17	6 Months
55	NDT	4	ME	Jan 4	2016-17	6 Months
56	Operation management	3	ME	Jan 4	2016-17	6 Months
57	Organizational Behaviour	1	ME	Jan 4	2016-17	6 Months
58	Plant Engineering & Maintenance	20	ME	Jan 4	2016-17	6 Months
59	Practical Project Management	1	ME	Jan 4	2016-17	6 Months
60	Probability Distributions, Transforms and Numerical Methods	1		Jan 4	2016-17	6 Months
61	production engineering	4	ME	Jan 4	2016-17	6 Months
62	Project (Phase 1)	1	ME	Jan 4	2016-17	6 Months
63	Project (Phase 2)	1	ME	Jan 4	2016-17	6 Months
64	Project management	12	ME	Jan 4	2016-17	6 Months
65	Quality Management	1	ME	Jan 4	2016-17	6 Months
66	Quantitative Techniques	1	ME	Jan 4	2016-17	6 Months
67	Refrigeration & Air Conditioning	8	ME	Jan 4	2016-17	6 Months
68	Research Methodology	1	ME	Jan 4	2016-17	6 Months
69	Sales & Marketing Management	7	ME	Jan 4	2016-17	6 Months
70	Thermal Engineering	1	ME	Jan 4	2016-17	6 Months
71	Thermal Engineering Lab	1	ME	Jan 4	2016-17	6 Months
72	Thermal Systems & Applications	8	ME	Jan 4	2016-17	6 Months
73	Thermodynamics	6	ME	Jan 4	2016-17	6 Months
74	Total Quality Management	1	ME	Jan 4	2016-17	6 Months
75	Work System Design	1	ME	Jan 4	2016-17	6 Months
76	Modern control Theory	5	EEE	Jan 4	2016-17	6 Months
77	Communication Engineering	4	EEE	Jan 4	2016-17	6 Months
78	Computer Networks	3	EEE	Jan 4	2016-17	6 Months
79	Computer Programming	40	EEE	Jan 4	2016-17	6 Months
80	Control and Simulation Lab	9	EEE	Jan 4	2016-17	6 Months
81	DC Machines and Transformers	4	EEE	Jan 4	2016-17	6 Months
82	Design & Engineering	40	EEE	Jan 4	2016-17	6 Months
83	Distributed Power Systems	3	EEE	Jan 4	2016-17	6 Months
84	Electrical CAD Lab	9	EEE	Jan 4	2016-17	6 Months
85	Electrical Power Transmission	5	EEE	Jan 4	2016-17	6 Months
86	Electrical system Design	4	EEE	Jan 4	2016-17	6 Months
87	Introduction to Electrical Engineering	40		Jan 4	2016-17	6 Months
88	Power Generation and Distribution	6	EEE	Jan 4	2016-17	6 Months
89	Signals and systems	7	EEE	Jan 4	2016-17	6 Months
90	Switch gear and protection	11	EEE	Jan 4	2016-17	6 Months
91	Synchronous Machines	3	EEE	Jan 4	2016-17	6 Months


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92	Power system Analysis	4	4	EEE	Jan 4	2016-17	6 Months
93	Analog Electronic Circuits Applications of Special Electrical Machines	2	2	EEE	Jan 4	2016-17	6 Months
94	Basic Electrical Workshop	40	40	EEE	Jan 4	2016-17	6 Months
96	Basic Electronic Workshop	3	3	EEE	Jan 4	2016-17	6 Months
97	Circuits and Measurements Lab	4	4	EEE	Jan 4	2016-17	6 Months
98	CIRCUITS AND NETWORKS	6	6	EEE	Jan 4	2016-17	6 Months
99	Computer Applications in Power Systems	2	2	EEE	Jan 4	2016-17	6 Months
100	Computer Programming Lab	40	40	EEE	Jan 4	2016-17	6 Months
101	Control Systems	3	3	EEE	Jan 4	2016-17	6 Months
102	Digital Electronics And Logic Design	5	5	EEE	Jan 4	2016-17	6 Months
103	Digital Signal Processing	2	2	EEE	Jan 4	2016-17	6 Months
104	Drives and Control	3	3	EEE	Jan 4	2016-17	6 Months
105	Elective - I Electric Drive Systems	1	1	EEE	Jan 4	2016-17	6 Months
106	Electrical Machines Lab I	4	4	EEE	Jan 4	2016-17	6 Months
107	Electrical Machines-II Lab	3	3	EEE	Jan 4	2016-17	6 Months
108	Electrical Power Transmission	5	5	EEE	Jan 4	2016-17	6 Months
109	Electronic Circuits Lab	4	4	EEE	Jan 4	2016-17	6 Months
110	Embedded Controllers for Power Convertors	1	1	EEE	Jan 4	2016-17	6 Months
111	Engineering Physics	40	40	EEE	Jan 4	2016-17	6 Months
112	Engineering Physics Lab	40	40	EEE	Jan 4	2016-17	6 Months
113	Facts & Power Quality	2	2	EEE	Jan 4	2016-17	6 Months
114	High Voltage DC Transmission	1	1	EEE	Jan 4	2016-17	6 Months
115	Induction Machines	2	2	EEE	Jan 4	2016-17	6 Months
116	Industrial Control Electronics	2	2	EEE	Jan 4	2016-17	6 Months
117	Industrial Training	1	1	EEE	Jan 4	2016-17	6 Months
118	Integrated Circuits Lab	4	4	EEE	Jan 4	2016-17	6 Months
119	Linear Control Systems	6	6	EEE	Jan 4	2016-17	6 Months
120	Linear integrated Circuits	8	8	EEE	Jan 4	2016-17	6 Months
121	Main Project	1	1	EEE	Jan 4	2016-17	6 Months
122	Material Science	40	40	EEE	Jan 4	2016-17	6 Months
123	Measurements And Instrumentation	14	14	EEE	Jan 4	2016-17	6 Months
124	Measurements And Instrumentation	14	14	EEE	Jan 4	2016-17	6 Months
125	Microcontrollers and Embedded Systems	4	4	EEE	Jan 4	2016-17	6 Months
126	Microprocessors& Microcontroller Lab	9	9	EEE	Jan 4	2016-17	6 Months
127	Microprocessors and applications	9	9	EEE	Jan 4	2016-17	6 Months
128	Mini Project	2	2	EEE	Jan 4	2016-17	6 Months
129	Modelling and Analysis of Electrical Machines	2	2	EEE	Jan 4	2016-17	6 Months
130	Optimization Techniques for Engineering Applications	2	2	EEE	Jan 4	2016-17	6 Months
131	Power Electronic Devices & Circuits	1	1	EEE	Jan 4	2016-17	6 Months
132	Power Electronics	20	20	EEE	Jan 4	2016-17	6 Months
133	Power Electronics Lab	3	3	EEE	Jan 4	2016-17	6 Months
134	Power Electronics Laboratory	20	20	EEE	Jan 4	2016-17	6 Months
135	Power System Dynamics and Stability	2	2	EEE	Jan 4	2016-17	6 Months


136	Power System Operation and Control	2	EEE	Jan 4	2016-17	6 Months
137	Power Systems Simulation Lab	1	EEE	Jan 4	2016-17	6 Months
138	Project	40	EEE	Jan 4	2016-17	6 Months
139	Project Phase 1	1	EEE	Jan 4	2016-17	6 Months
140	Project Phase 1	40	EEE	Jan 4	2016-17	6 Months
141	Renewable Energy Systems	2	EEE	Jan 4	2016-17	6 Months
142	Research Methodology	1	EEE	Jan 4	2016-17	6 Months
143	Switched Mode Power Converters	1	EEE	Jan 4	2016-17	6 Months
144	Advanced Computing Lab	1	CSE	Jan 4	2016-17	6 Months
145	Advanced data structure and algorithms	1	CSE	Jan 4	2016-17	6 Months
146	advanced database management	1	CSE	Jan 4	2016-17	6 Months
147	advanced Microprocessors and peripherals	4	CSE	Jan 4	2016-17	6 Months
148	artificial intelligence	4	CSE	Jan 4	2016-17	6 Months
149	Automata Theory and Computability	1	CSE	Jan 4	2016-17	6 Months
150	big data processing	1	CSE	Jan 4	2016-17	6 Months
151	Bioinformatics	1	CSE	Jan 4	2016-17	6 Months
152	client server applications	2	CSE	Jan 4	2016-17	6 Months
153	compiler construction	4	CSE	Jan 4	2016-17	6 Months
154	Computational Intelligence	1	CSE	Jan 4	2016-17	6 Months
155	Computer graphics	4	CSE	Jan 4	2016-17	6 Months
156	Computer graphics lab	4	CSE	Jan 4	2016-17	6 Months
157	Computer Networks	14	CSE	Jan 4	2016-17	6 Months
158	computer organisation	3	CSE	Jan 4	2016-17	6 Months
159	Computer Science Workshop	3	CSE	Jan 4	2016-17	6 Months
160	Computer security and applied cryptography	1	CSE	Jan 4	2016-17	6 Months
161	data structure	5	CSE	Jan 4	2016-17	6 Months
162	data structure Lab	5	CSE	Jan 4	2016-17	6 Months
163	data structure and algorithms	3	CSE	Jan 4	2016-17	6 Months
164	data structures Lab	4	CSE	Jan 4	2016-17	6 Months
165	database Lab	4	CSE	Jan 4	2016-17	6 Months
166	database management system	13	CSE	Jan 4	2016-17	6 Months
167	Design and analysis of algorithm	3	CSE	Jan 4	2016-17	6 Months
168	Digital signal processing	4	CSE	Jan 4	2016-17	6 Months
169	Distributed Computing Systems	4	CSE	Jan 4	2016-17	6 Months
170	Distributed systems	1	CSE	Jan 4	2016-17	6 Months
171	Free and Open Source Software Lab	4	CSE	Jan 4	2016-17	6 Months
172	hardware and microprocessor lab	4	CSE	Jan 4	2016-17	6 Months
173	high performance computing	4	CSE	Jan 4	2016-17	6 Months
174	Internet computing	3	CSE	Jan 4	2016-17	6 Months
175	Introduction to Computing and Problem Solving	4	CSE	Jan 4	2016-17	6 Months
176	Mini Project	3	CSE	Jan 4	2016-17	6 Months
177	Mobile computing	13	CSE	Jan 4	2016-17	6 Months
178	modern Computer Networks	1	CSE	Jan 4	2016-17	6 Months
179	Network Programming Lab	11	CSE	Jan 4	2016-17	6 Months
180	Network Simulation Lab	1	CSE	Jan 4	2016-17	6 Months
181	networking Lab	3	CSE	Jan 4	2016-17	6 Months
182	Neural networks	5	CSE	Jan 4	2016-17	6 Months
183	Object Oriented Design and Programming	3	CSE	Jan 4	2016-17	6 Months



184	object oriented modelling and design	4	CSE	Jan 4	2016-17	6 Months
185	Object Oriented Programming	9	CSE	Jan 4	2016-17	6 Months
186	Operating System Design Concepts	1	CSE	Jan 4	2016-17	6 Months
187	operating systems	4	CSE	Jan 4	2016-17	6 Months
188	operating systems lab	5	CSE	Jan 4	2016-17	6 Months
189	Principles of programming Languages	3	CSE	Jan 4	2016-17	6 Months
190	Problem solving and computer Programming	5	CSE	Jan 4	2016-17	6 Months
191	Programming Lab	4	CSE	Jan 4	2016-17	6 Months
192	Project	88	CSE	Jan 4	2016-17	6 Months
193	Project (Phase - I)	3	CSE	Jan 4	2016-17	6 Months
194	Research Methodology	1	CSE	Jan 4	2016-17	6 Months
195	Security in computing	14	CSE	Jan 4	2016-17	6 Months
196	signals and communication system	3	CSE	Jan 4	2016-17	6 Months
197	Social Network Analytics	1	CSE	Jan 4	2016-17	6 Months
198	Software engineering	7	CSE	Jan 4	2016-17	6 Months
199	system software	10	CSE	Jan 4	2016-17	6 Months
200	systems and communication systems	3	CSE	Jan 4	2016-17	6 Months
201	theory of computation	5	CSE	Jan 4	2016-17	6 Months
202	web security	1	CSE	Jan 4	2016-17	6 Months
203	web services	1	CSE	Jan 4	2016-17	6 Months
204	web technology	3	CSE	Jan 4	2016-17	6 Months
205	WebTechnologies	24	CSE	Jan 4	2016-17	6 Months
206	Wireless Sensor Networks	2	CSE	Jan 4	2016-17	6 Months
207	AdaptiveSignalProcessingTechniques	2	ECE	Jan 4	2016-17	6 Months
208	AdvancedCMOSVLSI	1	ECE	Jan 4	2016-17	6 Months
209	ADVANCEDCOMMUNICATIONLAB	4	ECE	Jan 4	2016-17	6 Months
210	AdvancedCommunicationNetworks	2	ECE	Jan 4	2016-17	6 Months
211	AdvancedDigitalCommunicationTechniques	2	ECE	Jan 4	2016-17	6 Months
212	AdvancedDigitalDesign	1	ECE	Jan 4	2016-17	6 Months
213	AlgebraicCodingTheory	2	ECE	Jan 4	2016-17	6 Months
214	ANALOGCOMMUNICATIONENGINEERING	23	ECE	Jan 4	2016-17	6 Months
215	ANALOGINTEGRATEDCIRCUITS	6	ECE	Jan 4	2016-17	6 Months
216	AnalyticalFoundationforCommunication Engineering	2	ECE	Jan 4	2016-17	6 Months
217	BASICSOFELECTRICALENGG	6	ECE	Jan 4	2016-17	6 Months
218	BASICSOFMECHANICALENGINEERING	3	ECE	Jan 4	2016-17	6 Months
219	CIVILENGGWorkshop	3	ECE	Jan 4	2016-17	6 Months
220	CMOSVLSIDesign	1	ECE	Jan 4	2016-17	6 Months
221	CommunicationEngineeringLabI	2	ECE	Jan 4	2016-17	6 Months
222	COMPUTERORGANIZATION	4	ECE	Jan 4	2016-17	6 Months
223	CONTROLSYSTEMS	4	ECE	Jan 4	2016-17	6 Months
224	DESIGNANDENGG	6	ECE	Jan 4	2016-17	6 Months
225	DesignwithARMmicrocontrollers	1	ECE	Jan 4	2016-17	6 Months
226	DIGITALCOMMUNICATIONTECHNIQUES	4	ECE	Jan 4	2016-17	6 Months
227	ELECTRICALENGGWORKSHOP	3	ECE	Jan 4	2016-17	6 Months
228	ELECTRICDRIVES&CONTROL	4	ECE	Jan 4	2016-17	6 Months



229	ELECTRICDRIVESANDCONTROLLAB	4	ECE	Jan 4	2016-17	6 Months
230	ELECTRONICCIRCUITS	3	ECE	Jan 4	2016-17	6 Months
231	ELECTRONICDESIGNAUTOMATIONLAB	1	ECE	Jan 4	2016-17	6 Months
232	ELECTRONICDEVICES&CIRCUITSLAB	23	ECE	Jan 4	2016-17	6 Months
233	ElectronicInstrumentation	5	ECE	Jan 4	2016-17	6 Months
234	ELECTRONICSENGINEERINGWORKSHOP	19	ECE	Jan 4	2016-17	6 Months
235	EmbeddedOperatingSystem&RTOS	1	ECE	Jan 4	2016-17	6 Months
236	EmbeddedSystems	9	ECE	Jan 4	2016-17	6 Months
237	ENGINEERINGPHYSICS	5	ECE	Jan 4	2016-17	6 Months
238	HighFrequencyCircuitsDesign	2	ECE	Jan 4	2016-17	6 Months
239	INTRODUCTIONTOELECTRONICSENGG	18	ECE	Jan 4	2016-17	6 Months
240	INTRODUCTIONTOSUSTAINABLEENGINEERING	10	ECE	Jan 4	2016-17	6 Months
241	LOGICCIRCUITDESIGN	5	ECE	Jan 4	2016-17	6 Months
242	LOGICCIRCUITDESIGNLAB	4	ECE	Jan 4	2016-17	6 Months
243	MICROCONTROLLERSANDAPPLICATIONS	5	ECE	Jan 4	2016-17	6 Months
244	MICROPROCESSOR&MICROCONTROLLERLAB	8	ECE	Jan 4	2016-17	6 Months
245	MICROPROCESSORSANDAPPLICATIONS	6	ECE	Jan 4	2016-17	6 Months
246	MINIPROJECT	4	ECE	Jan 4	2016-17	6 Months
247	MINIPROJECTLAB	45	ECE	Jan 4	2016-17	6 Months
248	MulticarrierandMIMOCCommunicationSystems	2	ECE	Jan 4	2016-17	6 Months
249	PROJECT	84	ECE	Jan 4	2016-17	6 Months
250	PROJECT(PHASE1)	4	ECE	Jan 4	2016-17	6 Months
251	PROJECT(PHASEII)	3	ECE	Jan 4	2016-17	6 Months
252	Project(Phase-II)	1	ECE	Jan 4	2016-17	6 Months
253	PROJECTWORK	84	ECE	Jan 4	2016-17	6 Months
254	SeminarII	1	ECE	Jan 4	2016-17	6 Months
255	SIGNALS&SYSTEMS	1	ECE	Jan 4	2016-17	6 Months
256	VLSI&EmbeddedSystemsLab	12	ECE	Jan 4	2016-17	6 Months
257	VLSIDesign	4	ECE	Jan 4	2016-17	6 Months
258	VLSITechnology	1	ECE	Jan 4	2016-17	6 Months
259	WirelessCommunication	7	ECE	Jan 4	2016-17	6 Months
260	Computer Application Lab	9	CE	Jan 4	2016-17	6 Months
261	Project Phase II	9	CE	Jan 4	2016-17	6 Months
262	Analytical methods in Engineering	6	CE	Jan 4	2016-17	6 Months
263	Theory of Elasticity	9	CE	Jan 4	2016-17	6 Months
264	Advanced Design of Concrete Structures	9	CE	Jan 4	2016-17	6 Months
265	Industrial Training	9	CE	Jan 4	2016-17	6 Months
266	Mini Project	15	CE	Jan 4	2016-17	6 Months
267	Project	15	CE	Jan 4	2016-17	6 Months
268	Engineering mechanics	5	CE	Jan 4	2016-17	6 Months
269	Introduction to sustainable engineering	12	CE	Jan 4	2016-17	6 Months
270	Introduction to Civil Engineering	6	CE	Jan 4	2016-17	6 Months
271	Mechanics of solids	9	CE	Jan 4	2016-17	6 Months
272	Structural Analysis I	19	CE	Jan 4	2016-17	6 Months
273	Fluid mechanics I	5	CE	Jan 4	2016-17	6 Months


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274	Construction Technology	31	CE	Jan 4	2016-17	6 Months
275	Fluid mechanics II	9	CE	Jan 4	2016-17	6 Months
276	Surveying	5	CE	Jan 4	2016-17	6 Months
277	geotechnical engineering I	15	CE	Jan 4	2016-17	6 Months
278	Civil Engineering drafting lab	17	CE	Jan 4	2016-17	6 Months
279	Material testing lab	14	CE	Jan 4	2016-17	6 Months
280	Survey lab	9	CE	Jan 4	2016-17	6 Months
281	Fluid Mechanics lab	7	CE	Jan 4	2016-17	6 Months
282	design of concrete structures	4	CE	Jan 4	2016-17	6 Months
283	Design of hydraulic structures	2	CE	Jan 4	2016-17	6 Months
284	Structural Analysis II	8	CE	Jan 4	2016-17	6 Months
285	Design of hydraulic structures	2	CE	Jan 4	2016-17	6 Months
286	design of concrete structures II	4	CE	Jan 4	2016-17	6 Months
287	Design of hydraulic structures	1	CE	Jan 4	2016-17	6 Months
288	geotechnical engineering II	20	CE	Jan 4	2016-17	6 Months
289	COMPUTER PROGRAMMING AND COMPUTATIONAL TECHNIQUES	6		Jan 4	2016-17	6 Months
290	Geomatics	12	CE	Jan 4	2016-17	6 Months
291	transportation engineering I	31	CE	Jan 4	2016-17	6 Months
292	water resource engineering	8	CE	Jan 4	2016-17	6 Months
293	Material testing lab II	6	CE	Jan 4	2016-17	6 Months
294	transportation engineering lab	16	CE	Jan 4	2016-17	6 Months
295	geotechnical engineering lab	8	CE	Jan 4	2016-17	6 Months
296	Design Project	91	CE	Jan 4	2016-17	6 Months
297	Advanced concrete technology	19	CE	Jan 4	2016-17	6 Months
298	Ground Improvement techniques	8	CE	Jan 4	2016-17	6 Months
299	Traffic Engineering and Management	16	CE	Jan 4	2016-17	6 Months
300	Environment & Pollution	8	CE	Jan 4	2016-17	6 Months
301	design of steel structures	8	CE	Jan 4	2016-17	6 Months
302	Environmental Engineering II	4	CE	Jan 4	2016-17	6 Months
303	Environmental Engineering I	8	CE	Jan 4	2016-17	6 Months
304	Environmental Engineering II	4	CE	Jan 4	2016-17	6 Months
305	Environmental Engineering I	16	CE	Jan 4	2016-17	6 Months
306	Structural Analysis III	9	CE	Jan 4	2016-17	6 Months
307	CIVIL ENGINEERING PROJECT MANAGEMENT	7	CE	Jan 4	2016-17	6 Months
308	Environmental Engineering I	6	CE	Jan 4	2016-17	6 Months
309	Transportation Engineering II	22	CE	Jan 4	2016-17	6 Months
310	Quantity Surveying and Valuation	54	CE	Jan 4	2016-17	6 Months
311	Environmental Engineering Lab	98	CE	Jan 4	2016-17	6 Months
312	Geo environmental engineering	4	CE	Jan 4	2016-17	6 Months
313	Environmental Impaact Assessment	4	CE	Jan 4	2016-17	6 Months
314	environmental impact assessment	20	CE	Jan 4	2016-17	6 Months
315	municipal solid waste management	41	CE	Jan 4	2016-17	6 Months
316	Project	141	CE	Jan 4	2016-17	6 Months
317	environmental impact assessment	20	CE	Jan 4	2016-17	6 Months
318	Seminar & Project Preliminary	32	CE	Jan 4	2016-17	6 Months
319	AC ING FOR MANAGEMENT	17	MBA	Jan 4	2016-17	6 Months
320	BANK MANAGEMENT	8	MBA	Jan 4	2016-17	6 Months
321	Bussiness Communication	1	MBA	Jan 4	2016-17	6 Months
322	COMPENSATION MANAGEMENT	6	MBA	Jan 4	2016-17	6 Months
323	CONSUMER BEHAVIOUR	12	MBA	Jan 4	2016-17	6 Months
324	FINANCIAL MANAGEMENT	56	MBA	Jan 4	2016-17	6 Months
325	HUMAN RESOUCE MANAGEMENT	17	MBA	Jan 4	2016-17	6 Months


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326	INTEGRATED MARKETING COMMUNICATION	8	MBA	Jan 4	2016-17	6 Months
327	Management Information Sstem	1	MBA	Jan 4	2016-17	6 Months
328	Managerial Economics	1	MBA	Jan 4	2016-17	6 Months
329	MANAGING OF INTERPERSONAL & GROUP PROCESS	12	MBA	Jan 4	2016-17	6 Months
330	MARKETING MANAGEMENT	25	MBA	Jan 4	2016-17	6 Months
331	OPERATIONS MANAGEMENT	18	MBA	Jan 4	2016-17	6 Months
332	Organisation Study	166	MBA	Jan 4	2016-17	6 Months
333	ORGANIZATIONAL BEHAVIOUR	27	MBA	Jan 4	2016-17	6 Months
334	PERFORMANCE MANAGEMENT	9	MBA	Jan 4	2016-17	6 Months
335	project	83	MBA	Jan 4	2016-17	6 Months
336	Quatitative Techniques	1	MBA	Jan 4	2016-17	6 Months
337	Research Methodology	83	MBA	Jan 4	2016-17	6 Months
338	RETAIL BUSINESS MANAGEMENT	12	MBA	Jan 4	2016-17	6 Months
339	Soft Skills I	1	MBA	Jan 4	2016-17	6 Months
340	Soft Skills III	1	MBA	Jan 4	2016-17	6 Months
341	TRAINING& DEVELOPMENT	8	MBA	Jan 4	2016-17	6 Months
342	WORKING CAPITAL MANAGEMENT	11	MBA	Jan 4	2016-17	6 Months


 PRINCIPAL
 LANGALAM COLLEGE OF ENGINEERING
 Ettumanoor

Date : 7th July 2015

Ref No. FLC/NOC/50815/OM

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Manu Damodaran Nampoothiri**, Semester-III MBA student of Mangalam College Of Engineering, Ettumanoor, Kottayam, Kerala, India, has completed his "Organizational Study" in our organization for 30 Days in the month of May 2015 as a part of his curriculum.

During the period of his above "Organizational Study" with us, we found him to be sincere and devoted. We wish all the best in his future endeavours.

Mansoor Ali



HR & Admin. Manager




PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor

ട്രാക്കോ കേബിൾ കമ്പനി ലിമിറ്റഡ്

(ഒരു കേരള സർക്കാർ സ്ഥാപനം)

TRACO CABLE COMPANY LIMITED

(A Kerala Government Company)



IRIMPANAM, TRIPUNITHURA, Dist. ERNAKULAM, PIN: 682 309
Phones: 0484 2780937, 2780237, 2785672, Fax: 0484 2780937

No.P&A/TRG/715

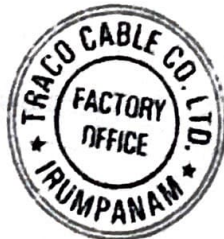
IRIMPANAM
08.09.2016

CERTIFICATE

This is to certify that Mr.Tony Jacob (Reg.No.62477), M B A Student of Department of Management Studies, Mangalam College of Engineering, Vettimukal, Ettumanoor, Kottayam – 686 631 has done a Project Study on "Performance Appraisal System " at TRACO CABLE COMPANY LIMITED, IRIMPANAM for a period of two months from 02/05/2016.

During the period we found he was hard working and diligent in conducting the Project Study and completed it in time.

For TRACO CABLE COMPANY LIMITED



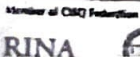
(Signature)
PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor

(Signature)
UNIT HEAD

Regd. Office ; XXXIX/5465, 4th Floor, KSHB Office Complex, Panampilly Nagar, Kochi - 682 036, Kerala
Phones: 0484 2314847, 2314864, 2311851 & 2320472 Fax 91-484 2312744
E-mail : mail@tracocable.com, Web : www.tracocable.com

Factories:

Pinarayi - 670742, Dist. Kannur Ph : 0490-2384161, Fax 0490-2384761 Thiruvalla-689 103, Dist. Pathanamthitta
Phones : 0469-2730231, 2730391 & 2730253, Fax : 0469 2630254 (TVLA)



मुख्यालय
Head Office
कयार बोर्ड
COIR BOARD
कोच्ची - 682 016
Kochi - 682 016



हिन्दुस्थान कयार HINDUSTAN COIR

टेलीफोन
PHONE : 0477 2258339
FAX : 0477 2258267

(सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय, भारत सरकार)
(Ministry of Micro, Small & Medium Enterprises, Government of India)
कलक्कूर. पी.ओ., पी.बि.नं.3 आलप्पुझा - 688 522, केरल, भारत
KALAVOOR P.O. P.B.NO.3 ALAPPUZHA - 688 522, KERALA, INDIA
E-mail : hindcoir@gmail.com

नं.
No.HC/.....

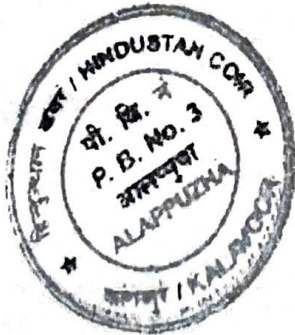
दिनांक
Date.....

HC/2012/Adm/1/10

04.11.2015

CERTIFICATE

This is to certify that Mr.Sudheesh.N.S, 3rd Semester MBA student, Mangalam College of Engineering, Ettumanoor, Kottayam has completed the Organization Study at Hindustan Coir.




04/11/2015

WEAVING MASTER

के सन्तोष / K. Santhosh
वीविंग मास्टर / Weaving Master
हिन्दुस्थान कयार / Hindustan Coir
कयार बोर्ड, कलक्कूर / Coir Board, Kalavoor
भारत सरकार / Govt. of India



CERTIFICATE

This is to certify that Mr. Prakash C Mohan, Reg. No:62454, fourth semester MBA student of, Mangalam college of engineering, Ettumanoor, has successfully completed his final Sem project on the topic " A Study on comparative study of monetary and non-monetary benefits of employees at Reliance Communication Pvt. Ltd. under Reliance HR Services Pvt. Ltd. ", during the month of May and June, 2016.

During the period, we found he is punctual, sincere and hardworking.

We wish all the very best in his future endeavours.

Ms. Vincy Vincent K.

(Senior Talent Acquisition)

Reliance HR Services Ltd.

Place: Kaloor

Date: 30.06.2016

Thanking You,
With regards,

Mr. Vineeth Thankappan
(Area Business Manager & HR-HOD)

Reliance HR Services Ltd.



MANGALAM COLLEGE OF ENGINEERING
Ettumanoor



RADO TYRES LIMITED

ALWAYE MUNNAR ROAD,
NELLIKUZHI P.O., KOTHAMANGALAM - 686 691.
PH: 9526100615, 0485 - 2823724

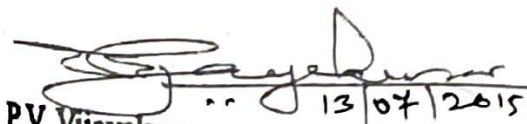
RTF/Project/15/ 178

13/07/2015

CERTIFICATE

This is to certify that Mr. Abhay Krishna P.V, MBA student of Mangalam College of Engineering, Ettumannor, Kottayam has completed an organization study in our company during the period from 4th May 2015 to 04th June 2015.

For RADO TYRES LIMITED


13/07/2015

P.V. Vijayakumar MBA, LL.B, DLL&LW
Manager (HR & IR)
Rado Tyres Ltd., Kothamangalam



AVT NATURAL PRODUCTS LIMITED

Factory: Vazhakulam, Marampilly P.O., Aluva - 683 107, Cochin, India.
Ph: +91 484 2677 262, 263, 381 Fax: +91 484 2677512 Website: www.avtnatural.com

Dated: 12/08/2016

WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Abhay Krishna PV (Reg No: 62391) has undergone a Project Study on The problems of Shift working employees at AVT Natural Products Limited, South Vazhakulam for the period from 2nd May 2016 to 30th June 2016 in partial fulfillment of the requirements for the award of Master of Business Administration.

During this period he has shown a keen desire to learn.

Yours Faithfully

For AVT Natural Products Limited



Lal Kurian

Asst. General Manager-HR & Administration



PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor



हिन्दुस्तान इन्सेक्टिसाइड्स लिमिटेड
(भारत सरकार का उद्यम)
HINDUSTAN INSECTICIDES LIMITED



आई एस / आई एस ओ 9001, आई एस / आई एस ओ 14001 & आई एस 18001 प्रमाणित कंपनी
AN ISO 9001 IS/ ISO 14001 & IS 18001 CERTIFIED COMPANY

(A GOVERNMENT OF INDIA ENTERPRISE)
सी आई एन CIN : U24211DL1954GOI002377

उद्योगमंडल UDYOGAMANDAL - 683 501
कोची, केरल, भारत KOCHI, KERALA, INDIA
फोन PHONE : 0484-2545121 to 2545123
फैक्स FAX : 0484 -2545464
ई-मेल E-MAIL : hiludl@dataone.in



प्रवेश द्विंदी में पत्र व्यवहार करके देल का गैरब बहार ।
इस कार्यालय में, द्विंदी में प्राप्त पत्रों का स्वागत है ।

PE-4/185

15.07.2015

CERTIFICATE

This is to certify that Ms. Anjumol K S, Reg No.62408, MBA student of Mangalam College of Engineering, Ettumanoor has undertaken Organizational Study in our company from 04.05.2015 to 04.06.2015 as a partial fulfillment for the award of Degree of MBA.

We wish her all success for future.

[Signature]
PERSONNEL MANAGER

[Signature]





**Vaikom Taluk Co-operative
Agricultural & Rural Development Bank Ltd. No. K. 951, Vaikom**

വൈക്കം താലൂക്ക് സഹകരണ കാർഷിക ഗ്രാമ വികസന ബാങ്ക്
ക്രിപ്തം നമ്പർ കെ. 951

H.O. Vaikom, Sub Office : Kaduthuruthy, C.C.: Vadakara



CERTIFICATE

This is to certify that Ms. Chotty Dhananjayan (Reg. No. 62425), 4 th Semester MBA (Finance) student of the Department of Management Studies, Mangalam College of Engineering, Ettumanoor, Kottayam , had successfully undertaken a project work entitled " Study on Cash Management ", at the Vaikom Taluk Cooperative Agricultural and Rural Development Bank Ltd. No. K-951, Vaikom , during the period 02.05.2016 to 02.07.2016.

Vaikom.

26.08.2016.


Secretary.



PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor

1st Floor, Midukki Enterprises Building, Kacherikavala, Vaikom - 686 141
Phone : 04829 - 231533, 217716, 9446353386, 238959
E-mail : vaikomcardbank@gmail.com



हिन्दुस्तान इन्सैक्टिसाइड्स लिमिटेड
(भारत सरकार का उद्यम)



HINDUSTAN INSECTICIDES LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE)

सी आई एन CIN : U24211DL1954GOI002377

एस / आई एस ओ 9001, आई एस / आई एस ओ 14001 & आई एस 18001 प्रमाणित कंपनी
IS/ ISO 9001 IS/ ISO 14001 & IS 18001 CERTIFIED COMPANY

उद्योगमण्डल UDYOGAMANDAL - 683 501
कोची, केरल, भारत KOCHI, KERALA, INDIA
फोन PHONE : 0484-2545121 to 2545
फैक्स FAX : 0484 -2545464
ई-मेल E-MAIL : hiludl@dataone.in



हमेशा हिन्दी में पत्र व्यवहार करके देश का गौरव व इस कार्यालय में, हिन्दी में प्राप्त पत्रों का स्वागत

PE-4/185

12. 08.2016

CERTIFICATE

This is to certify that Ms. Anila Mol P.K, Reg No. 62406, MBA student of Dept.of Management Studies, Mangalam College of Engineering, Ettumanoor, Kottayam has undertaken Project work on the topic "Effectiveness of Training and Development Programme" in our Company from 02-05-2016 to 30-06-2016 as partial fulfillment for the award of MBA.

We wish her all success.

DEPUTY MANAGER (HR & ADMN)





Priyom Condiments (P) Ltd.
Kumarapuram P.O., Cochin - 683 565, Kerala, India.
Tel: +91 484 2681822, 2682962, Fax: +91 484 2684901
e-mail: care@priyommasala.com www.priyommasala.com

CERTIFICATE

Certified that Mr. NANDHU P SOMAN, MBA student of Mangalam College of Engineering, Ettumanoor has undergone an "Organization study" in Priyom Condiments Pvt Ltd. From 4th May to 4th June 2015. During this period he took special interest in looking into all aspects of relevant to this study.

His character and conduct are found to be good during the project period. We wish him all success in future.

For PRIYOM CONDIMENT'S PVT.LTD

ANOOJA BHASKAR

HR



PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor

ട്രാക്കോ കേബിൾ കമ്പനി ലിമിറ്റഡ്

(ഒരു കേരള സർക്കാർ സ്ഥാപനം)

TRACO CABLE COMPANY LIMITED

(A Kerala Government Company)



IRIMPANAM, TRIPUNITHURA, Dist. ERNAKULAM, PIN: 682 309
Phones: 0484 2780937, 2780237, 2785672, Fax: 0484 2780937

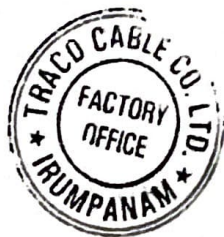
No.P&A/TRG/821

IRIMPANAM
11.08.2016

CERTIFICATE

This is to certify that Mr.Bibin Joy (Reg. No.62421), MBA student of Department of Management Studies, Mangalam College of Engineering, Ettumanoor, Kottayam has done a Project Study on "Inventory Management System and its Effectiveness" at TRACO CABLE COMPANY LIMITED, IRIMPANAM for a period of two months from 02/05/2016.

During the period we found he was hard working and diligent in conducting the Project Study and completed it in time.



For TRACO CABLE COMPANY LIMITED

UNIT HEAD

Regd. Office ; XXXIX/5465, 4th Floor, KSHB Office Complex, Panampilly Nagar, Kochi - 682 036, Kerala
Phones: 0484 2314847, 2314864, 2311851 & 2320472 Fax 91-484 2312744
E-mail : mail@tracocable.com, Web : www.tracocable.com

Factories:

Pinarayi - 670742, Dist. Kannur Ph : 0490-2384161, Fax 0490-2384761 Thiruvalla-689 103, Dist. Pathanamthitta
Ph : 0490-2730251, 2730252 & 2730253. Fax : 0469 2630254 (TVLA)

KERALA STATE RUBBER CO-OPERATIVE LTD.

(Rubco Rubberised Coir Mattress Factory)

Rubco Nagar, Poothakuzhy P.O., Pampady, Kottayam-686 521, Kerala, India

Ph: 91-481-2509257, Fax: 91-481-2509258

E-mail: rubcorcm@dataone.in, heaven1@sanchainet.in, Web: www.rubcomattress.com

RUBCO



RUB/RCM/P&ATPER-02/292-AI 545

Date: 24/09/2016

CERTIFICATE

This is to certify that Ms.SIYANA. S. (Reg.No.72033), MBA student of Mangalam College of Engineering, Ettumanoor, Kottayam, has undergone Organisational Study as a part of her curriculum at our RUBCO- Rubberised Coir Mattress Factory during the period from 02.05.2016 to 31.05.2016.

During the tenure of her study, we found her attentive in her assignments.

For KERALA STATE RUBBER CO-OPERATIVE LTD.


P.C.AJITH KUMAR
ADM. CUM PERSONNEL OFFICER



DEPARTMENT OF MANAGEMENT STUDIES
MANGALAM COLLEGE OF ENGINEERING
ETTUMANOOR, KOTTAYAM



CERTIFICATE

This is to certify that the Organization Study Report entitled Organizational study on Kerala state rubber co- operative limited is a bona fide record of the work done by Ms. SIYANA S as a part of the project Work during the Third Semester at KERALA STATE RUBBER CO- OPERATIVE LTD, PAMPADY in partial fulfillment of the requirements for the award of the Degree of MASTER OF BUSINESS ADMINISTRATION (MBA) of Mahatma Gandhi University, Kottayam.

Jule
Project Guide

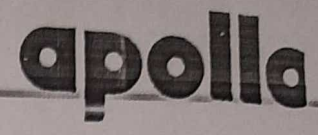
Mrs. TINTA BABY
Assistant Professor
Department of Management Studies
Mangalam College of Engineering
Ettumanoor, Kottayam



[Signature]
HOD

DR. SIBIN C CHITHRAN
MBA, M.Phil, FDP (IIMK), PhD (Mgmt)
Prof. & Head, Dept. of Management Studies
Mangalam College Of Engineering
Ettumanoor, Kottayam

[Signature]
PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
ETTUMANOOR



30/07/2016

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr.Jinson Joy, B.Tech student of Mangalam College of Engineering has successfully completed his "Internship" in our organization from 18/07/2016 to 01/08/2016 as part of his academic curriculum.

The performance of Mr.Jinson Joy during the period has been good and we wish him all success in future.

For APOLLO TYRES LTD

MANEESH M S
EXECUTIVE - HR





IS / ISO 9001 : 2008



THE TRAVANCORE CEMENTS LIMITED

(A GOVT. OF KERALA UNDERTAKING)
NATTAKOM, KOTTAYAM-686 013, KERALA
CIN : L26941KL1946SGC001213, TIN : 32050212265

PD/ 556

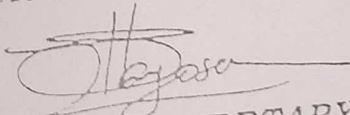
2 August 2016

TO WHOMSOEVER IT MAY CONCERN

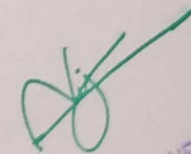
This is to certify that Mr. Leo Mathew (MLM15ME081),
B.Tech. (Mechanical Engineering) student, Mangalam
College Of Engineering, Mangalam Campus, Vettimukal P.O.,
Ettumanoor, Kottayam, Kerala - 686 631 had undergone
an ' Internship Training ' in our Company during the period
from 28.07.2016 to 02.08.2016 as part of his curriculum.

During this period he had shown keen interest in learning
various aspects connected with his academic requirement
and was found obedient as well as industrious.

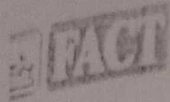
FOR THE TRAVANCORE CEMENTS LTD.,


COMPANY SECRETARY.




PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor





दि फर्टिलाइजर्स एण्ड केमिकल्स ट्रावन्कोर लिमिटेड
 THE FERTILISERS AND CHEMICALS TRAVANCORE LIMITED
 (A Government of India Enterprise)

TRAINING CENTRE

Phone 0484 2556750 2559621 2567423
 2567380 2567467 2567424 2567798
 Email mdc@facilttd.com

CERTIFICATE 913 2016

24.06.2016

CERTIFICATE

Certified that Mr. AKHIL P.M, B.Tech (Mechanical Engineering) student of Mangalam College of Engineering, Mangalam has successfully completed his Inplant Training (FACT Ltd) during the period from 20th June 2016 to 24th June 2016.



MANGALAM COLLEGE OF ENGINEERING

Regd Office Erur, Uthiyamangalad



KERALA STATE ROAD TRANSPORT CORPORATION

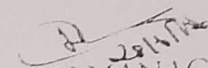
Works Manager,
Regional Workshop, Mavelikara, 680 101
Mappila, Dist. Pathanamthitta, Kerala
www.keralaroadtransport.gov.in


28-06-2016

CERTIFICATE

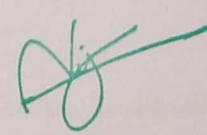
Mr. Ajin Biji, a student of Second Year B.Tech Mechanical
course of Mangalam College of Engineering, Ettumanoor, Kottayam has
'Industrial Training' successfully at the Regional Workshop of Kerala State
Road Transport Corporation, Mavelikara from 22-06-2016 to 28-06-2016 (6 working days).
During the training his work and conduct were good.




WORKS MANAGER


28/6




PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor



HIGHLANDS TEA FACTORY

Calvarimount P.O. Kallappana 685 515 Ph: 9961475399, 9947282569

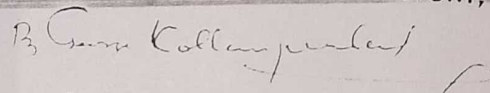
Date.....

CERTIFICATE

This is to certify that Mr. ABIN SEBASTIAN B.Tech student of MANGALAM COLLEGE OF ENGINEERING AND TECHNOLOGY, ETTUMANOOR has successfully completed his INTERNSHIP in our organization. His performance during his tenure in this company has been satisfactory. His overall has also been satisfactory. We wish him all success.

duration of his study was from 18th July 2016 to 23rd July 2016.

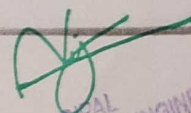
For HIGHLANDS TEA FACTORY,



FR. GEORGE KOLLAMPARAMBIL, MBA

EXECUTIVE DIRECTOR

Executive Director
Highlands Tea Factory
Calvarimount - 685 515
Idukki Dt.



PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor



health thru ayurveda | since 1908

Kairali Ayurvedic Products Pvt Ltd.
17/7 A1, Karattupalayam Village,
Samathur Taluk, Pollachi, Tamil Nadu-642 123
T: +91 - 4259-271711/22 Mob: +91 90955 31689
E: info@kairaliprducts.com
www.kairaliprducts.com

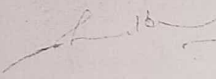
22.06.2017

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr.P.Sreeshankar (Reg.No: MLMME107) the student of First year Mechanical Engineering of Mangalam College of Engineering, Kottayam has successfully completed his Industrial Training work at our factory as a part of his curriculum for the period of 16th June 2017 to 22nd June 2017.

We wish him all the very best to his future endeavor.

For Kairali Ayurvedic Products Private Limited


B.Sudhankumar
Manager - Admin/HR.





Corporate Office
D-120 Anandwala Mohan, New Delhi - 74
IVR: +91-9557256255
T: +91-11-85028307, 85028308
E: info@kairali.com
CIN: U65191DL2007PTC167500
www.kairali.com





AUTOCARE
MARUTI AUTHORIZED SERVICE STATION
THALASSERY ROAD, KANIYARAM
MANANTHAVADY, WAYANAD DL., KERALA - 670 645
PH: 04935 - 240068, 241977
Mob: 9447040068

TO WHOM IT MAY CONCERN.

This is to certify that Mr. Jijith T. Thomas son of Mr. Thomaskutty, first year mechanical engineering student has undergone two weeks internship in our workshop wef 26.06.17. His internship activities includes function and operation of workshop, familiarisation of tools and equipments and assisting mechanics in repair jobs etc.

During this period he was found hard working, punctual and inquisitive. He is a willing learner with lot of potential. We wish him every success in his studies and career.

For Autocare

[Signature]
18/7/2017

Ravindranath
Workshop Manager.



[Signature]
PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor



KERALA STATE ROAD TRANSPORT CORPORATION

Mechanical Engineer (W), Central Works, Pappanamcode,

Tiruvananthapuram Kerala, Pin - 695018

Phone No. 0477 2491163. E-mail - cws@kerala.gov.in

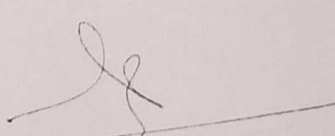
No. 172105 CWS

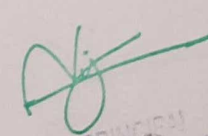
CERTIFICATE

It is to certify that the following students of Mangalam College of Engineering, S.H Moun, Kottayam have undergone industrial training at this Corporation from 20.06.17 to 24.06.17. During the training their work and conduct was

SL NO	NAME
1	Abeez Shanavas
2	Akhil R Nair
3	Aakhil Muhamad F
4	Akhil Tommy
5	Akshay M Kumar
6	Akshay Lal
7	Aasish Prasad
8	Aswin Anirudhan
9	Ajo Antony
10	Akhil S
11	Vishnu Das T
12	Naveen Varghese




MECHANICAL ENGINEER(W)


PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor

Central Works
10.07.2017

14 - (25)



KERALA STATE ROAD TRANSPORT CORPORATION

Office of the Mechanical Engineer (W), Central Works, Pappanamcode,
Thiruvananthapuram, Kerala, Pin - 695018.
Phone No: 0471 2491163. E-mail : cws@kerala.gov.in

No.GL/1/721/02/CWS.

CERTIFICATE

This is to certify that the following students of Mangalam College of Engineering, S.H Mount, Kottayam have undergone industrial training at this workshop from 20.06.17 to 24.06.17. During the training their work and conduct was good.

SL NO	NAME
1	Abeez Shanavas
2	Akhil R Nair
3	Aakhil Muhamad F
4	Akhil Tommy
5	Akshay M Kumar
6	Akshay Lal
7	Aasish Prasad
8	Aswin Anirudhan
9	Ajo Antony
10	Akhil S
11	Vishnu Das T
12	Naveen Varghese



[Signature]

MECHANICAL ENGINEER(W)

Central Works,
20/07/2017.

[Signature]
PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Changanassery



20

15/11/2016

THE TRAVANCORE CEMENTS LIMITED



(A GOVT. OF KERALA UNDERTAKING)
NATTAKOM, KOTTAYAM-686 013, KERALA
CIN : L26941KL1946SGC001213, TIN : 32050212265

PD/ 555

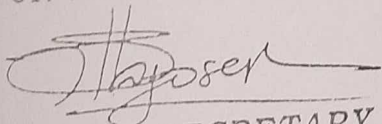
2 August 2016

TO WHOMSOEVER IT MAY CONCERN

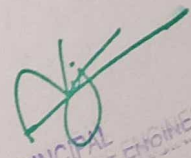
This is to certify that Mr. Nandhu K.B. (MLM15ME095),
B.Tech. (Mechanical Engineering) student, Mangalam
College Of Engineering, Mangalam Campus, Vettimukal P.O.,
Ettumanoor, Kottayam, Kerala - 686 631 had undergone
an 'Internship Training' in our Company during the period
from 28.07.2016 to 02.08.2016 as part of his curriculum.

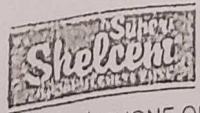
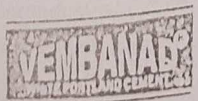
During this period he had shown keen interest in learning
various aspects connected with his academic requirement
and was found obedient as well as industrious.

FOR THE TRAVANCORE CEMENTS LTD.,


COMPANY SECRETARY.




PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor



29.06.2017

CERTIFICATE




This is to certify that Mr. Melvin Mathew, reg no. MLM15ME086, fourth semester B.Tech (Mechanical) student of Mangalam College of Engineering, Ettumanoor, has successfully completed his Internship under the guidance of Ms. Regina Varghese, at our organization during the period from 23.06.2017 to 29.06.2017.

We wish him all the best.

For Toms Pipes Pvt. Ltd.,



Authorised Signatory

Mfrs. of  PVC Water Pipes  Conduits and  Fittings



PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor

INDUSTRIAL ESTABLISHMENT
NO. 100/1152
OF 1950



SA 20
Toms Pipes Private Limited


29.06.2017

CERTIFICATE

This is to certify that Mr. Rengith Seby, reg no. MLM15ME109, fourth semester B.Tech (Mechanical) student of Mangalam College of Engineering, Ettumanoor, has successfully completed his Internship under the guidance of Ms. Regina Varghese, at our organization during the period from 23.06.2017 to 29.06.2017.




We wish him all the best.

For Toms Pipes Pvt. Ltd, -


Authorised Signatory




PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor

Mfrs. of  PVC Water Pipes  Conduits and  Fittings

09
1000 181108
PO BOX 424, THIRUVANANTHURAM
TEL: 0477 4471171
www.apollotyres.com
1000

apollo


30/07/2016

TO WHOMSOEVER IT MAY CONCERN

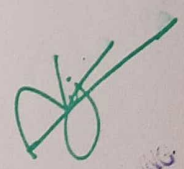
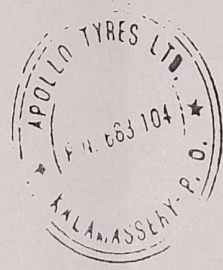
This is to certify that Mr. Thomaskutty Thampi, B.Tech student of Mangalam College of Engineering has successfully completed his "Internship" in our organization from 18/07/2016 to 01/08/2016 as part of his academic curriculum.

The performance of Mr. Thomaskutty Thampi during the period has been good and we wish him all success in future. —

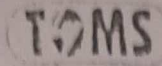
For APOLLO TYRES LTD



MANEESH M S
EXECUTIVE - HR



PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumaneer



Toms Pipes Private Limited

29.06.2017

CERTIFICATE

This is to certify that Mr. Prinu Ickilachan, reg no. MLM15ME104, fourth semester B.Tech (Mechanical) student of Mangalam College of Engineering, Ettumanoor, has successfully completed his Internship under the guidance of Ms. Regina Varghese, at our organization during the period from 23.06.2017 to 29.06.2017.

We wish him all the best.

For Toms Pipes Pvt. Ltd,

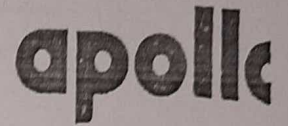


Authorised Signatory

Mfrs. of PVC Water Pipes Conduits and Fittings

PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor

Regd. Off: Door No. 6/305, Vattoli, Chethimattom Road, Eravuchira P.O., Thottackad, Kottayam, Kerala - PIN 686 539, INDIA
Factory: Veroor Industrial Estate, Industrial Nagar P.O., Changanacherry, Kottayam, Kerala - 686 106
Tel: +91 481 2724414, Fax: 272 4806. Email: tomspipes1@gmail.com, Web: www.tomspipes.com



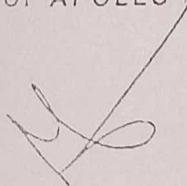
30/07/2016

TO WHOMSOEVER IT MAY CONCERN

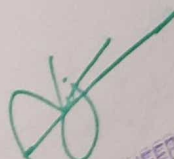
This is to certify that Mr. Harikrishnan, B.Tech student of Mangalam College of Engineering has successfully completed his "Internship" in our organization from 18/07/2016 to 01/08/2016 as part of his academic curriculum.

The performance of Mr. Harikrishnan during the period has been good and we wish him all success in future.

For APOLLO TYRES LTD


MANEESH M S
EXECUTIVE - HR




PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor



दि फर्टिलाइजर्स एण्ड केमिकल्स ट्रावनकोर लिमिटेड
 THE FERTILISERS AND CHEMICALS TRAVANCORE LIMITED
 भारत सरकार का उद्योग (A Government of India Enterprise)

मदक TRAINING CENTRE
 मदक Office
 Udyogamandal - 683 501

दूरभाष / Phone : 0484 - 2556750, 2559621, 2567423,
 2567380, 2567467, 2567424, 2567798
 ई-मेल / Email : mdc@facilld.com

DCM-TRG-CERT-11912-2016

24.06.2016

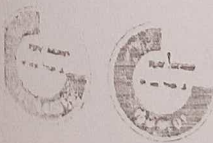
CERTIFICATE

Certified that Mr. AMAL KUMAR, B.Tech (Mechanical Engineering) student of Mangalam College of Engineering, Kottayam, has successfully completed his **Inplant Training** in FACT Ltd. during the period from 20th June 2016 to 24th June 2016.

Udyogamandal
 24.6.16
 Sr. Manager (Trg)



PRINCIPAL
 MANGALAM COLLEGE OF ENGINEERING
 Elooramdoor



पंजीकृत कार्यालय : एलूर, उद्योगमंडल
 Regd. Office: Eloor, Udyogamandal

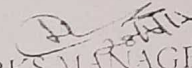
KERALA STATE ROAD TRANSPORT CORPORATION

Office of the Works Manager,
Regional Workshop, Mavelikara - 690 101
Mavelikara Dist., Phone - 0479 - 230 2409
www.krsrtc.kerala.gov.in

28-06-2016

CERTIFICATE

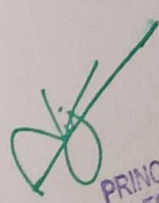
Mr. Anandhu Ajith, a student of Second Year B.Tech Mechanical
course of Mangalam College of Engineering, Ettumanoor, Kottayam has
participated in 'Industrial Training' successfully at the Regional Workshop of Kerala State
Road Transport Corporation, Mavelikara from 22-06-2016 to 28-06-2016 (6 working days).
His performance during his work and conduct were good.


WORKS MANAGER


28/6

14 10




PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
ETTUMANOOR



THE TRAVANCORE CEMENTS LIMITED

(A PUBLIC COMPANY LIMITED UNDER THE COMPANIES ACT, 1956)
NATTAKOM, KOTTAYAM-686 013, KERALA
CIN: L25000KA1946SGC001213 TIN: 12050212265



July 15, 2016

TO WHOMSOEVER IT MAY CONCERN

I hereby certify that Mr. Anandhu K. Prakash, B.Tech (Mechanical Engg.) student, Mangalam college of Engineering, Mangalam Hills, Vettimukal P.O, Ettumanoor, Kottayam-686 had undergone an "Industrial Training" in our Company during the period from 11.07.2016 to 15.07.2016 as part of his curriculum.

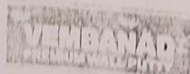
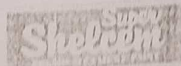
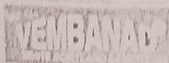
During this period he had shown keen interest in learning all the aspects connected with his academic requirement and was diligent and obedient as well as industrious.

THE TRAVANCORE CEMENTS LTD.,

Manager (Personnel).

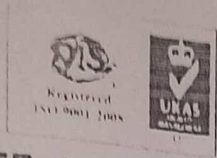


(Signature)
PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor



MIDAS

TREADS (INDIA) PRIVATE LIMITED



Registered Office
MIDAS MARKETING BUILDING
VAZHOOOR III MANGALAM HILLS P.O.
KOTTAYAM - 686 017 KERALA INDIA
PHONE 0481 2451215
0481 2451155
FAX 0481 2451155
E-mail midas@vsnl.com
Website www.midas-treads.com
CIN U51101KL1972PC025845

June 25, 2016

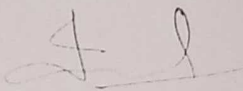
To whom it may concern

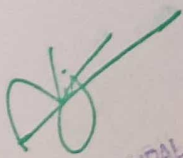
This is to certify that Mr. Anirudhan K.S (Reg. No.MLM15ME033) 1st year B.Tech student of Mangalam College of Engineering, Mangalam Campus, Mangalam Hills, Vettimukal P.O, Ettumanoor, Kottayam, has done and completed his internship in our company for the period 20.06.2016 to 25.06.2016 as part of his academic requirement.

During the period we found Mr. Anirudhan K.S is taking interest in his assignment and we wish him all success.

For Midas Treads (India) Pvt. Ltd.




Authorised Signatory


PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
ETTUMANOOR

DELPHI

17th August 2016

TO WHOMSOEVER IT MAY CONCERN

I hereby certify that Mr. ANOOP K ASHOKAN, 3rd Semester Mechanical Engineering student of MANGALAM COLLEGE OF ENGINEERING, MANGALAM HILLS, MANGALAM PO ETTUMANOOR, KOTTAYAM, KERALA-686532, has successfully completed Industrial Training in our Organization from 25th July 2016 to 30th July 2016. During the period he has trained in Machining shop, Quality, Mold Design and Tool Design Departments.

Wishing him the best in all his future endeavors.

Delphi Connection Systems India Pvt Ltd.,

[Handwritten signature]

Manager - HR & Administration



14-17

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MANGALAM COLLEGE OF ENGINEERING
Ettumanoor

38
27



15/150/9901-2006

THE TRAVANCORE CEMENTS LIMITED



(A GOVT. OF KERALA UNDERTAKING)
NATTAKOM, KOTTAYAM-686 013, KERALA
TEL: 0471-269411/1946 SGC001213 TIN: 32050212265

July 15, 2016

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Antony J. Panthiruvellil, B.Tech (Mechanical Engg.) student, Mangalam college of Engineering Mangalam Hills, Vettimukal P.O, Ettumanoor, Kottayam-686 013 had undergone an "Industrial Training" in our Company during the period from 11.07.2016 to 15.07.2016 as part of his curriculum.

During this period he had shown keen interest in learning various aspects connected with his academic requirement and was found obedient as well as industrious.

FOR THE TRAVANCORE CEMENTS LTD.,

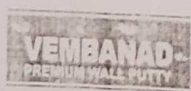
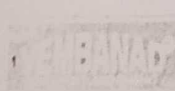
[Handwritten signature]

Manager (Personnel)



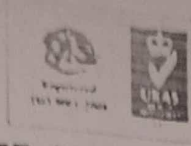
14-7-16

[Handwritten signature]
PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor



MIDAS

READS (INDIA) PRIVATE LIMITED



REGD OFFICE
MIDAS READS (INDIA) PRIVATE LIMITED
VADAPATTI HILLS, KOTTAYAM
KOTTAYAM 686 017, KERALA, INDIA
PHONE 91 481 2561155
FAX 91 481 2561155
E-MAIL midasreads@vsnl.com
WEBSITE www.midasreads.com
CIN U25109KL1997PTC024585

June 25, 2016

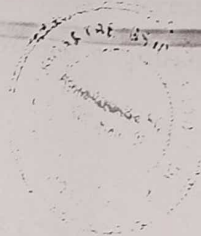
To whom it may concern

This is to certify that Mr. Aswin Dev (Reg. No. MLM15ME043) 1st year B.Tech student of Mangalam College of Engineering, Mangalam Campus, Mangalam Hills, Vettimukal P.O. Ettumanoor, Kottayam, has done and completed his internship in our company for the period 20.06.2016 to 25.06.2016 as part of his academic requirement.

During the period we found Mr. Aswin Dev is taking interest in his assignment and we wish him all success.

For Midas Treads (India) Pvt. Ltd.

Authorised Signatory



14-20

PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor

THE TRAVANCORE CEMENTS LIMITED

(A PUBLIC COMPANY LIMITED UNDER THE COMPANIES ACT, 1956)
A COMPANY OF KERALA UNDERTAKING)
NATTAKOM KOTTAYAM-686 013, KERALA
REGD. OFF. NO. KL 19/08GGC001213, TIN 32050212265



28 July 2016

TO WHOMSOEVER IT MAY CONCERN

It is to certify that Mr. Dennis Abraham, B.Tech. (Mechanical Engineering) student, Mangalam College Of Engineering, Vettimukal O., Ettumanoor, Kottayam, Kerala - 686 631 had undergone an Internship Training" in our Company during the period from 3.07.2016 to 26.07.2016 as part of his curriculum.

During this period he had shown keen interest in learning various aspects connected with his academic requirement and was found obedient as well as industrious.

FOR THE TRAVANCORE CEMENTS LTD.,

MANAGER (PERSONNEL).




PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor



THE TRAVANCORE CEMENTS LIMITED

(A PUBLIC SECTOR UNDERTAKING)
NATTAKOM, KOTTAYAM-686 013, KERALA
CIN: 26041KE1036SGC001213, TIN: 32050212265



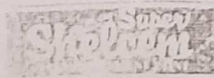
July 19, 2016

Sub: Internship Training.
Ref: your letter dt.18.07.2016.

In response to your letter cited above, sanction has been accorded to Mr. Dennis Abraham, B.Tech (Engg.) student of your institution to undergo an Internship Training as part of his curriculum on day, as per the following terms and conditions:

01. The period allowed for conducting Industrial Training is from 23.07.2016 to 26.07.2016. It shall be the responsibility of the student to attend the number of days as required by the University/college.
02. The Internship Training will be during the office hours only.
03. He is not eligible for any remuneration during the period.
04. All matters which may come to his knowledge regarding the company and its factory must be kept and treated by her as strictly confidential.
05. The Company (TCL) will neither be responsible for any accident nor be liable to pay any compensation etc.
06. He is not eligible for using Company's transport facilities during the Said period.
07. The management reserves the full right to terminate the Training during the said period at any time as needed without assigning any reason and he will have no lien in the Company for employment.
08. Draft copy of the Training Report shall be submitted to the concerned Department head at least 3 days before the completion of the project work and a fair copy to be submitted after his approval.
09. While preparing the Training Report it is to be ensured by the Concerned student that the data are from Section / department concerned and Organogram incorporated is the latest as well as authenticated.
10. Extension will be granted only on specific request and if found acceptable.
11. The student shall keep a photocopy of this letter and the identity card (in original) of the institution, which are required for security checkup.
12. The student shall report to Personnel Section for necessary guidance.

PRINCIPAL
COLLEGE OF ENGINEERING
Ettumanoor





THE TRAVANCORE CEMENTS LIMITED

(A GOVT. OF KERALA UNDERTAKING)
NATTAKOM, KOTTAYAM-686 013, KERALA
CIN : L26911KL1916SSGC001213, TIN : 32050212265

IS / ISO 9001 : 2008



July 28, 2016

College of Engineering,
P.O. Ettumanoor

Sub: Internship Training.
Ref: your letter dt. 27.07.2016.

.....
In reference to your letter cited above, sanction has been accorded to Mr. Dennis Mathew, B.Tech (Mech. Engg.) student of your institution to undergo an Internship Training as part of his curriculum Company as per the following terms and conditions:

01. The period allowed for conducting Industrial Training is from 28.07.2016 to 02.08.2016. It shall be the responsibility of the student to attend the number of days as required by the University /college.
02. The Internship Training will be during the office hours only.
03. He is not eligible for any remuneration during the period.
04. All matters which may come to his knowledge regarding the company and its factory must be kept and treated by her as strictly confidential.
05. The Company (TCL) will neither be responsible for any accident nor be liable to pay any compensation etc.
06. He is not eligible for using Company's transport facilities during the Said period .
07. The management reserves the full right to terminate the Training during the said period at any time as needed without assigning any reason and he will have no lien in the Company for employment
08. Draft copy of the Training Report shall be submitted to the concerned Department head at least 3 days before the completion of the project work and a fair copy to be submitted after his approval.
09. While preparing the Training Report it is to be ensured by the Concerned student that the data are from Section / department concerned and Organogram incorporated is the latest as well as authenticated.
10. Extension will be granted only on specific request and if found acceptable.
11. The student shall keep a photocopy of this letter and the identity card (in original) of the institution which are required for security checkup.
12. The students shall report to Personnel Section for necessary guidance.

THE TRAVANCORE CEMENTS LTD.,

PERSONNEL

PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
ETTUMANOOR





THE TRAVANCORE CEMENTS LIMITED

IS / ISO 9001 . 2008



(A GOVT OF KERALA UNDERTAKING)
NATTAKOM, KOTTAYAM-686 013, KERALA
GIN : L26941KL1946SGC001213, TIN : 32050212265

1557

2 August 2016

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Dennis Mathew, B.Tech. (Mechanical Engineering) student, Mangalam College Of Engineering, Mangalam Campus, Vettimukal P.O., Attumanoor, Kottayam, Kerala - 686 631 had undergone an 'Internship Training' in our Company during the period from 28.07.2016 to 02.08.2016 as part of his curriculum.

During this period he had shown keen interest in learning various aspects connected with his academic requirement and was found obedient as well as industrious.

FOR THE TRAVANCORE CEMENTS LTD.,

14-70

COMPANY SECRETARY.



[Handwritten signature]

PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettimoot





THE TRAVANCORE CEMENTS LIMITED

ISO 9001 2008



STATE OF KERALA (UNDERTAKING)
NATTAKOM, KOTTAYAM-686 013, KERALA
CIN: U09041KL1946BGC001713, TIN: 32050212265

July 15, 2016

TO WHOMSOEVER IT MAY CONCERN

It is to certify that Mr. George Johnson, B.Tech (Mechanical Engineering) student, Mangalam college of Engineering, Mangalam P.O., Ettumanoor, Kottayam-686 631 had undergone an "Industrial Training" in our Company during the period from 11.07.2016 to 15.07.2016 as part of his curriculum.

During this period he had shown keen interest in learning various aspects connected with his academic requirement and was found obedient as well as industrious.

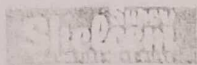
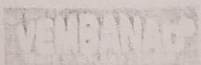
FOR THE TRAVANCORE CEMENTS LTD.,

Manager (Personnel)



14-2016

PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor



Website: www.travcement.com | PHONE OFFICE: 0471 261122 | PHONE HOME: 0471 261121 | FAX: 0471 261121



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THE TRAVANCORE CEMENTS LIMITED

(A GOVT. OF KERALA UNDERTAKING)
NATTAKOM, KOTTAYAM-686 013, KERALA
CIN: L36941KI1946SGC001213, TIN: 32050212265



July 15, 2016

TO WHOMSOEVER IT MAY CONCERN

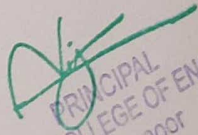
I hereby certify that Mr. Ashik M. Ninan, B.Tech (Mechanical Engineering) student, Mangalam college of Engineering, Mangalam, Vettimukal P.O, Ettumanoor, Kottayam-686 631 had undergone an "Industrial Training" in our Company during the period from 11.07.2016 to 15.07.2016 as part of his curriculum.

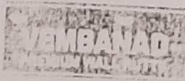
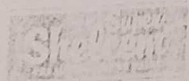
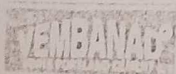
During this period he had shown keen interest in learning various aspects connected with his academic requirement and was found obedient as well as industrious.

FOR THE TRAVANCORE CEMENTS LTD.,

Manager (Personnel).




PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor



Phone: 2361371, 2361372, 2360878 | Fax: 0481-2362351



THE TRAVANCORE CEMENTS LIMITED

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NATTAKOM, KOTTAYAM-686 013, KERALA
CIN : L26941KL1946SGC001213, TIN : 32050212265



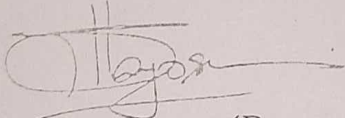
June 22, 2017

TO WHOMSOEVER IT MAY CONCERN

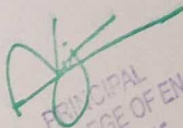
This is to certify that Mr. Krishna Kammath, B.Tech (Mechanical Engineering) student, Mangalam College of Engineering, Mangalam Hills, Vettimukal P.O, Ettumanoor, Kottayam had undergone an "Internship" in our Company during the period from 15.06.2017 to 22.06.2017 as part of his curriculum.

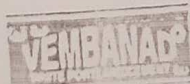
During this period he had shown keen interest in learning various aspects connected with his academic requirement and was found obedient as well as industrious.

FOR THE TRAVANCORE CEMENTS LTD.,


Chief Manager (Personnel).




PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor





KERALA STATE ROAD TRANSPORT CORPORATION

Office of the Mechanical Engineer(W), Central Works, Pappanamcode,
Thiruvananthapuram, Kerala, Pin - 695018.
Phone No: 0471 2491163. E-mail : cws@kerala.gov.in

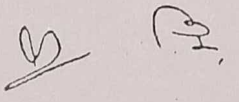
SL1/1721/02/CWS.

CERTIFICATE

This is to certify that Sri.Rashid Ansar, fourth semester B.Tech student of Mangalam College of Engineering, Ettumanoor, Kottayam has undergone industrial training in this workshop from 13/06/2017 to 20/06/2017 . During the training his work and conduct was good.

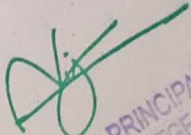
Number of days attended for training - 06 days.


MECHANICAL ENGINEER(W)



Central Works,
10/07/2017




PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor



IS / ISO 9001 2008

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NATTAKOM, KOTTAYAM-686 013, KERALA
CIN : L26941KL1946SGC001213, TIN : 32050212265

June 22, 2017

PD/ 186

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Arjun Manoj, B.Tech (Mechanical Engineering) student, Mangalam College of Engineering, Mangalam Hills, Vettimukal P.O, Ettumanoor, Kottayam had undergone an "Internship" in our Company during the period from 15.06.2017 to 22.06.2017 as part of his curriculum.

During this period he had shown keen interest in learning various aspects connected with his academic requirement and was found obedient as well as industrious.

FOR THE TRAVANCORE CEMENTS LTD.,

Chief Manager (Personnel).



PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor

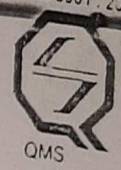




THE TRAVANCORE CEMENTS LIMITED

(A GOVT OF KERALA UNDERTAKING)
NATTAKOM, KOTTAYAM-686 013, KERALA
CIN : 126941KL1946SGC001213, TIN : 32050212265

IS / ISO 9001 : 2008



June 22, 2017

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Anu Yohannan, B.Tech (Mechanical Engineering) student, Mangalam College of Engineering, Mangalam P.O., Ettumanoor, Kottayam had undergone an "Internship" in our Company during the period from 15.06.2017 to 22.06.2017 as part of his curriculum.

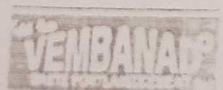
During this period he had shown keen interest in learning various aspects connected with his academic requirement and was found efficient as well as industrious.

FOR THE TRAVANCORE CEMENTS LTD.,

Chief Manager (Personnel).



PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor





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THE TRAVANCORE CEMENTS LIMITED

(A GOVT OF KERALA UNDERTAKING)
NATTAKOM, KOTTAYAM-686 013, KERALA
CIN : 128941KL1946SGC001213, TIN : 32050212265



June 22, 2017

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Ahammed Thanseer , B.Tech (Mechanical Engineering) student, Mangalam College of Engineering, Mangalam Hills, Vembanad P.O, Ettumanoor, Kottayam had undergone an "Internship" in our Company during the period from 15.06.2017 to 22.06.2017 as part of his curriculum.

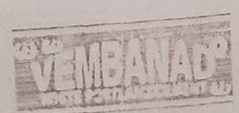
During this period he had shown keen interest in learning various aspects connected with his academic requirement and was found obedient as well as industrious.

FOR THE TRAVANCORE CEMENTS LTD.,

Chief Manager (Personnel).



PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor





THE TRAVANCORE CEMENTS LIMITED

(A GOVT. OF KERALA UNDERTAKING)
NATTAKOM, KOTTAYAM-686 013, KERALA
CIN: L26241KL1946SGC001213, TIN: 32050212265

IS / ISO 9001 : 2008



PD/152

June 22, 2017

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Devakrishnan.S, B.Tech (Mechanical Engineering) student, Mangalam College of Engineering, Mangalam Hills, Vettimukal P.O, Ettumanoor, Kottayam had undergone an "Internship" in our Company during the period from 15.06.2017 to 22.06.2017 as part of his curriculum.

During this period he had shown keen interest in learning various aspects connected with his academic requirement and was found obedient as well as industrious.

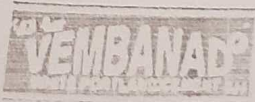
FOR THE TRAVANCORE CEMENTS LTD.,

Chief Manager (Personnel).



14-10

PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor



Mangalam College of Engineering

Date:

30-6-2017

CERTIFICATE

It is certified that Mr Anoop Suresh of Mangalam College of Engineering ,
Mangalam Campus Mangalam Hills, Vettimukal P O, Ettumanoor, Kottayam, ,
has undergone training in our factory from 21-06-2017 to 27-06-2017. . He
has been very quick in learning and acquired knowledge of R.O System,
Maintenance of Filling Plant etc.

We wish him success.

M. S. Anoop Suresh

M. S. Anoop Suresh

M. S. Anoop Suresh

Mangalam Partner

M. S. Anoop Suresh
PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor

Mob: 9240415031
9847236092

Handwritten signature

Date:

30-6-2017

CERTIFICATE

I hereby certify that Mr. Anandhar Chandran, a student of B Tech Mech, of Mangalam College of Engineering, Mangalam Campus, Mangalam Hills, Ethumanoor, Kottayam, Kerala has undergone training in our factory from 21-06-2017 to 27-06-2017. He has been very quick in learning and has gained knowledge of R.O System, Mechanical functioning of Filling Plant and other success.

Handwritten number 14

Handwritten signature
Principal
Mangalam College of Engineering
Ethumanoor



Handwritten signature
PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ethumanoor

Rainton Express

Date:

30-6-2017

CERTIFICATE

I hereby certify that Mr. Abin K Sabu, a student of B Tech Mech, of Mangalam College of Engineering, Mangalam Campus, Mangalam Hills, Vettimukal P O, Mangalam, Kerala has undergone training in our company from 27-06-2017 to 27-06-2017. He has been very quick in learning and acquired knowledge of PLC System, Mechanical functioning of Filling Plant etc.

Abin K Sabu
Student



[Signature]

PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettimanoor

Mob: 9240416031
9847230002

Rainbow Express

Date:

30-6-2017
|

CERTIFICATE

It is certified that Mr Akshay S Suresh, a student of B Tech Mech, of Mangalam College of Engineering, Mangalam Campus, Mangalam Hills, Vettimukul P O, Mangalam, Kerala has undergone training in our company from 29-6-2017 to 30-6-2017. He has been very quick in learning and acquired knowledge of RO System, Mechanical functioning of Filling Plant etc.



[Signature]
PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettimbencher



Rainbow Empresa

373 B, Punnam, Assamanoor PO
Perumbavoor - 683 549, Ernakulam Dist.
e-mail: info@rainbowem.com

Mob: 9249415031
9847236092

Date:

30-6-2017

CERTIFICATE

It is certified that Mr Dennis Abraham, a student of B Tech Mech, of Mangalam College of Engineering, Mangalam Campus, Mangalam Hills, Vettimukal P O, Kottayam, Kerala has undergone training in our company from 26-6-2017 to 27-06-2017. He has been very quick in learning and acquired knowledge of R.O System, Mechanical functioning of Filling Plant etc.

We wish him success.

Rainbow Empresa

Lakshmana Panicker

Managing Partner

14-20



PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Kottayam

KELTRON

KELTRON CONTROLS
Aror PO, Alappuzha District
Kerala, India, Pin 688 534
E-mail: kelkca@vsnl.com

Phone
+91 478 2830768
+91 478 2872323 5 (4 Lines)
Fax +91 478 2872322

CERTIFICATE

This is to certify that **Mr. ADITHYA HARIKUMAR**, B-Tech (ME) student from **MANGALAM COLLEGE OF ENGINEERING, MANGALAM CAMPUS, VETTIMUKAL P.O., ETTUMANOOR, KOTTAYAM, KERALA - 686 631** has successfully completed his five days *Industrial Training Program* with effect from June 21, 2017 in **Kerala State Electronics Development Corporation (K.S.E.D.C.) LTD., KELTRON CONTROLS DIVISION, Aror** in partial fulfillment his Bachelor Degree of Technology in Mechanical Engineering studies.

He has undergone Industrial Training (INDT) in our various Strategic Business Units (SBU) (1) Control & Instrumentation (CIG), (2) Strategic Services Group (STSG), (3) Pneumatic Business Group (PNG), (4) Information Technology & Coastal Security Services group (ITG & CSSG) & Common Services Groups (CSG) like Mechanical, Electronics and Fabrication Assembly Shops and Quality Assurance Department (QA).

We wish all success in his future endeavor



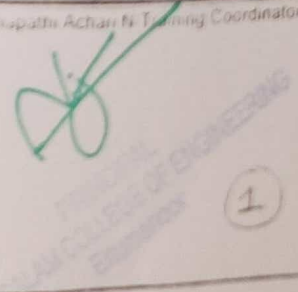
FERMI JOHN

Dy. GENERAL MANAGER (STSG)



27.06.2017

Ganapathi Achan N Training Coordinator




Date: 6/22/2017

EXPERIENCE CERTIFICATE FOR INTERNSHIP

Dear Sir / Madam Concern

It is to certify that **Mr. Amal Tom Mathew**, (Passport# P6305132) student of Mangalam College of Engineering has successfully completed training / internship from June 10th 2017 to June 25th 2017. During these period we found him very enthusiastic and hard working.

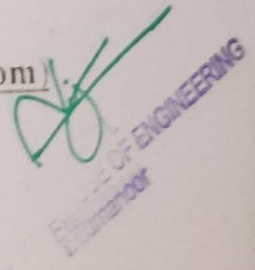
We wish him all success in his future career.


Santhosh Augustian

QC Manager BGCS#5

santhosh.augustian@sepco.net.cn (s.mail2frnd@gmail.com)

Phone: 966535618948



MIDAS
PRECURED TREADS (P) LTD.

Registered Office
MIDAS MARKETING BUILDING
VARISSERY JN, MARIATHURUTHU P.O.
KOTTAYAM - 686 017, KERALA, INDIA
PHONE : 91 - 481 - 2561215
FAX : 91 - 481 - 2561155
E-mail : midas@vsnl.com
Website : www.midastreads.com
CIN U25119KL1985PTC004269

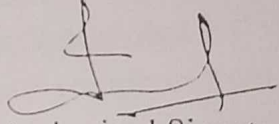
June 30, 2017

To whom it may concern

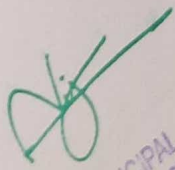
This is to certify that Mr. Deepak Mathew (Reg. No. MLM15ME052) 2nd year B.Tech student of Mangalam College of Engineering, Mangalam Campus, Vettimukal P.O., Ettumanoor, Kottayam, has successfully completed his Internship Training in our company as part of his academic requirement during the period from 23rd June, 2017 to 30th June, 2017.

During the period we found Mr. Deepak Mathew is taking interest in his work. We wish him all success.

For Midas Precured Treads (P) Ltd.


Authorised Signatory




PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor

Works: Building No. V/36, Kolladu Adivaram, Devalokam P.O., Kottayam - 686 004
164/11, Industrial Estate, Ettumanoor, Kottayam- 686 631, Kerala, Ph:2537656

Mob: 9249415031
9847236092



Rainbow Empresa

V 373 B, Punnavayam, Azhimanthoor PO,
Perumbavoor - 683 819, Ernakulam Dist.
Email: re.abowchn@gmail.com

Date:

30-6-2017

CERTIFICATE

It is certified that Mr Cliffin George, a student of B Tech Mech, of Mangalam College of Engineering, Mangalam Campus, Mangalam Hills, Vettimukal P O, Azhimanthoor, Kottayam, Kerala has undergone training in our company from 21-06-2017 to 27-06-2017. He has been very quick in learning and acquired knowledge of R.O System, Mechanical functioning of Filling Plant etc.

Wish him success.

For Rainbow Empresa

P.C. Lakshmananicker

Managing Partner



PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Azhimanthoor

Mob: 9249415031
9847236092



Rainbow Empressa

Vettimukal, Mangalam, Assamanoor P.O.
Perumbayal, Ernakulam Dist
Kerala

Date:

30-6-2017

CERTIFICATE

It is certified that Mr Cijin Mathew, a student of B Tech Mech, of Mangalam College of Engineering, Mangalam Campus, Mangalam Hills, Vettimukal P O, Perumbayal, Kottayam, Kerala has undergone training in our company from 14-06-2017 to 27-06-2017. He has been very quick in learning and acquired knowledge of R.O System, Mechanical functioning of Filling Plant etc.

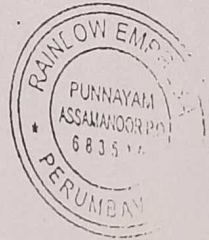
We wish him success.

14-10

For Rainbow Empressa

M/s Lalitha Manoj Panicker

Managing Partner



PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettimanoor

1732890170037C016224
188241823
1882418230



Toms Pipes Private Limited

29.06.2017

CERTIFICATE

This is to certify that Mr. Avin P Cyriac, reg no. MLM15ME045, fourth semester B.Tech (Mechanical) student of Mangalam College of Engineering, Ettumanoor, has successfully completed his Internship under the guidance of Ms. Regina Varghese, at our organization during the period from 23.06.2017 to 29.06.2017.

We wish him all the best.

For Toms Pipes Pvt. Ltd,



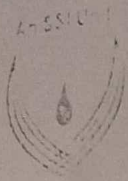
Authorised Signatory

PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor

Mfrs. of PVC Water Pipes Conduits and Fittings

Regd Off: Door No. 6/305, Vattoli, Chethimattom Road, Eravuchira P.O., Thottackad, Kottayam, Kerala - PIN 686 539, INDIA
Factory: Veroor Industrial Estate, Industrial Nagar P.O., Changanacherry, Kottayam, Kerala - 686 106
Tel: +91 481 2724414, Fax: 272 4806. Email: tomspipes1@gmail.com, Web: www.tomspipes.com

44-1



Rainbow Empressa

V3751, Punnamayam, Assamanoor P.O.
Perambalur - 626 549, Perambalur Dist.
e-mail: rainbowempressa@gmail.com

Mob: 9240415031
9847236092

Date:

30-6-2017

CERTIFICATE

It is certified that Mr Aswin K Vasu, a student of B Tech Mech, of Mangalam College of Engineering, Mangalam Campus, Mangalam Hills, Vettimukul P O, Perambalur, Kottayam, Kerala has undergone training in our company from 24-06-2017 to 27-06-2017. He has been very quick in learning and acquired knowledge of R O System, Mechanical functioning of Filling Plant etc.

We wish him success.

For Rainbow Empressa

For Lakshmana Panicker

Managing Partner

14-10



PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING

Rainbow Empresa

Mob: 9249415031
9847236092

Date:

30-6-2017

CERTIFICATE

Mr. ARUN ANIL, a student of B Tech Mech, of Mangalam Engineering, Mangalam Campus, Mangalam Hills, Vettimukal P O, Mangalam, Kerala has undergone training in our company from 27-6-2017. He has been very quick in learning and acquired knowledge of System Mechanical functioning of Filling Plant etc.

CLASS

14-20



[Signature]
PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumandam

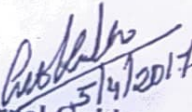
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
MANGALAM COLLEGE OF ENGINEERING, KOTTAYAM

MARCH 2017



BONAFIDE CERTIFICATE

This is to certify that the main project titled "An analysis on the exposure of small scale industries in India through e-commerce" is the bonafide record of the work done by AKHILA M S, AKSHAY RAJ V, DEVIKA SADANAND, LIJU V KURIAKOSE of B.TECH in Computer Science and Engineering towards the partial fulfillment of the requirement for the award of the DEGREE OF BACHELOR OF TECHNOLOGY by Mahatma Gandhi University, Kottayam during the academic year 2016-17.


5/4/2017
Internal Guide

Ms. Gokula Nath G

Assistant Professor

Dept. of Computer Science & Engineering



Head of the department

Prof. Vinod P Vijayan

Associate Professor

Dept. of Computer Science & Engineering

PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettimbanthor

MARCH 2017



BONAFIDE CERTIFICATE

This is to certify that the main project titled "Color code :secure and user friendly authentication scheme" is the bonafide record of the work done by ABHIJITH A, AKSHAI DEV, ALAN TOM KOSHY and GEORGE JOSE MURICKEN of B.TECH in Computer Science and Engineering towards the partial fulfillment of the the requirement for the award of the DEGREE OF BACHELOR OF TECHNOLOGY by Mahatma Gandhi University, Kottayam during the academic year 2016-17.

~~Internal Guide~~

~~Ms Anna Prathiba Shobak~~

~~Assistant Professor~~

~~Dept. of Computer Science & Engineering~~

~~Head of the department~~

~~Mr Vinod P Vijayan~~

~~Associate Professor and HOD~~

~~Dept. of Computer Science & Engineering~~

(Handwritten signature in blue ink)

PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettimambur

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

MANGALAM COLLEGE OF ENGINEERING, KOTTAYAM

MARCH 2017



BONAFIDE CERTIFICATE

This is to certify that the main project titled "Backward and forward secrecy of confidential data for disruption tolerant military networks" is the bonafied record of the work done by ANJU RAJ P.G, ASWATHY MOHANAN, ATHULYA P.M, JOSIYA MARIYA JOSEPH of B.TECH in Computer Science and Engineering towards partial fulfillment of the requirement for the award of the DEGREE OF BACHELOR OF TECHNOLOGY by Mahatma Gandhi University, Kottayam during the Academic year 2016 - 17.

Internal Guide

Ms. Jinu P Sainudeen

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PRINCIPAL
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Ettumanoor

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

MANGALAM COLLEGE OF ENGINEERING,

ETTUMANOOR

OCTOBER 2017



CERTIFICATE

This is to certify that the project report entitled "PANDA: PUBLIC AUDITING FOR SHARED DATA WITH EFFICIENT USER REVOCATION IN THE CLOUD" is the bonafide record of the work done by **PREMY P JACOB (13008169), REENA BABY (13008171), SONA THAMBI (13008192), AISWARYA MOHAN (13008207)** of fourth year B.Tech (COMPUTER SCIENCE & ENGINEERING) student as part of his/her project work.

Neena
25/04/17

Internal Guide

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
MANGALAM COLLEGE OF ENGINEERING, ETTUMANOOR
MARCH 2017



BONAFIDE CERTIFICATE

This is to certify that the project titled "AN EXPLORATION OF GEOGRAPHIC AUTHENTICATIO SCHEMES" is the bonafide record of the work done by NAYANA C N (13008163), REENU JOSEPH (13008172), SANTHI P S(13008208) of B.TECH in Computer Science and Engineering towards the partial fulfillment of the requirement for the award of the DEGREE OF BACHELOR OF TECHNOLOGY by Mahatma Gandhi University, Kottayam during the academic year 2016-17.

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MANGALAM COLLEGE OF ENGINEERING,ETTUMANOOR

MAY 2017



CERTIFICATE

This is to certify that the project titled "AUTHENTICATION SYSTEM FOR SMARTPHONE USERS" is the bonafide record of the work done by NEETHU JOSEPH(13008165), SNEHA SEBASTIAN(13008191), THARA KURIAN(13008201) of B.TECH in Computer Science and Engineering towards the partial fulfillment of the requirement for the award of the DEGREE OF BACHELOR OF TECHNOLOGY by Mahatma Gandhi University, Kottayam during the academic year 2016-17.

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MAY 2017



BONAFIDE CERTIFICATE

This is to certify that the main project titled "SPAM BLOCKER" is the bonafide record of the work done by SAJITH SAJAN(13008182), SARATH MOHAN(13008186), SEBIN ABRAHAM(13008187), VINUDEV M.M(13008204) of B.TECH in Computer Science and Engineering towards the partial fulfilment of the requirement for the award of the DEGREE OF BACHELOR OF TECHNOLOGY by Mahatma Gandhi University, Kottayam during the academic year 2016-17.

Ms. Neema George
12/04/17

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MAY 2017



BONAFIDE CERTIFICATE

This is to certify that the main project titled "FINGERPRINT MATCHING VOTING SYSTEM" is the bonafide record of the work done by RON BABU(13008177), SACHIN BABU(13008180), SUJITHMON THOMAS(13008200), of B.TECH in Computer Science and Engineering towards the partial fulfilment of the requirement for the award of the DEGREE OF BACHELOR OF TECHNOLOGY by Mahatma Gandhi University, Kottayam during the academic year 2016-17.

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MAY 2017



BONAFIDE CERTIFICATE

This is to certify that the project titled "VIGILANTE" is the bonafide record of the work done by PHILIP VARGHESE, SAMBHU K. T., SANDEEP N. S., VISHNU V.B. of B.TECH in Computer Science and Engineering towards the partial fulfilment of the requirement for the award of the DEGREE OF BACHELOR OF TECHNOLOGY by Mahatma Gandhi University, Kottayam during the academic year 2016-17.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
MANGALAM COLLEGE OF ENGINEERING, ETTUMANOOR

MAY 2017



BONAFIDE CERTIFICATE

This is to certify that the project titled "PERLHADOOP: A UTILITY FOR THE BETTER PERFORMANCE OF PERL SCRIPTS ON HADOOP" is the bonafide record of work done by MARIA SONY JOSEPH (13008159), NEENA RAJAN (13008164), PRIYANKA P KUMAR (13008170), RUTH CLARA TOM (13008179) of B.TECH in Computer Science and Engineering towards the partial fulfillment of the requirement for the award of the DEGREE OF BACHELOR OF TECHNOLOGY by Mahatma Gandhi University, Kottayam during the academic year 2016-17.


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MAY 2017
MANGALAM COLLEGE OF ENGINEERING, KOTTAYAM



BONAFIDE CERTIFICATE

This is to certify that the main project titled "JOBSEEKER" is the bonafide record of the work done by NIVED N(13008569), RINSON CHACKO(13008175), NIYESH SHAJI(13008167) of BTECH in Computer Science and Engineering towards the partial fulfilment of the requirement for the award of the DEGREE OF BACHELOR OF TECHNOLOGY by Mahatma Gandhi University, Kottayam during the academic year 2016-17.


23/4/17

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MANGALAM COLLEGE OF ENGINEERING, KOTTAYAM

MAY 2017



BONAFIDE CERTIFICATE

This is to certify that the main project report entitled "iamhere!" is the bonafide work submitted by Nikhil C Kurian (13008166), Shebin John (13008188), Siby Mathew Thomas (13008190), Thomas Joe (13008202) of B.TECH in Computer Science and Engineering towards the partial fulfilment of the requirement for the award of the DEGREE OF BACHELOR OF TECHNOLOGY by Mahatma Gandhi University, Kottayam during the academic year 2016-17.


24/04/17

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MARCH 2017



BONAFIDE CERTIFICATE

This is to certify that the project titled "MLM NAVIGATOR" is the bonafide record of the work done by MUHSINA ANSARI (13008161), SONIYA JOY (13008193), SRUTHY M NAIR (13008196), and SRUTHY P B (13008197) in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Computer Science & Engineering by Mahatma Gandhi University, Kottayam during the academic year 2016-17.

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MARCH 2017



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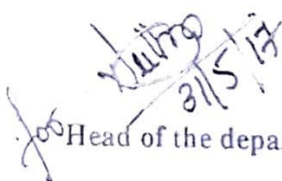
This is to certify that the main project titled "IoT based gas leakage and fire detection system" is the bonafide record of the work done by ABHISHEK ARUN KUMAR, ALBIN JOHN SEBASTIAN, ARUN JOSEPH and ATHUL BABU of B.TECH in Computer Science and Engineering towards the partial fulfillment of the requirement for the award of the DEGREE OF BACHELOR OF TECHNOLOGY by Mahatma Gandhi University, Kottayam during the academic year 2016-17.


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MANGALAM COLLEGE OF ENGINEERING, ETTUMANOOR

MAY 2017




BONAFIDE CERTIFICATE

This is to certify that the project titled "Voice control over home appliances using raspberry pi" is the bonafide record of the work done by Anjali Krishnan, Arun Jithan, Geethumol T Varghese, Geovar prince K, Libin Joseph of B.TECH in Computer Science and Engineering towards the partial fulfillment of the requirement for the award of the DEGREE OF BACHELOR OF TECHNOLOGY by Mahatma Gandhi University, Kottayam during the academic year 2016-17.


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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
MANGALAM COLLEGE OF ENGINEERING, ETTUMANOOR**

MARCH 2017



BONAFIDE CERTIFICATE

This is to certify that the project titled "PULSATIO" is the bonafide record of the work done by ARUNIMA MOHAN,ATHIRAJ NAIR,BINEESHA B THERESA, and KAVYA GANESHAN of B.TECH in Computer Science and Engineering towards the partial fulfillment of the requirement for the award of the DEGREE OF BACHELOR OF TECHNOLOGY by Mahatma Gandhi University, Kottayam during the academic year 2016-17.


10/4/17

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MANGALAM COLLEGE OF ENGINEERING, ETTUMANOOR

MARCH 2017



BONAFIDE CERTIFICATE

This is to certify that the main project titled "AIRLINE NETWORK ANALYSIS AND MANAGEMENT SYSTEM USING HADOOP" is the bonafide record of the work done by AKASH P RAJ, ARCHANA RADHAKRISHNAN, BETSON P JOSE, JEEVA JOSE, JOBY AUGUSTINE of B. TECH in Computer Science and Engineering towards the partial fulfillment of the requirement for the award of the DEGREE OF BACHELOR OF TECHNOLOGY by Mahatma Gandhi University, Kottayam during the academic year 2016-17.


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MARCH 2017



BONAFIDE CERTIFICATE

This is to certify that the project report entitled "E-Alert Environmental monitoring using Wireless Sensor Network" is the bonafide report of the work done by Arathi Sabu(13008127), Chinnu Chanchuan(13008141), Krishnapriya.B(13008154), Liza Mariam Roy(13008158) of Bachelor of Technology in COMPUTER SCIENCE AND ENGINEERING towards the partial fulfillment of the requirement for the award of the Degree of Bachelor of Technology by the Mahatma Gandhi University, Kerala during the academic year 2016-2017.

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MANGALAM COLLEGE OF ENGINEERING, KOTTAYAM

MARCH 2017



BONAFIDE CERTIFICATE

This is to certify that the main project titled "Orb-B" is the bonafide record of the work done by AKHIL ANIL, ANIT THERESA JOSE, ATHIRA LAKSHMI, DIXY SALIN JOHN, FIROZ KAMAL S of B.TECH in Computer Science and Engineering towards the partial Fulfillment of the requirement for the award of the DEGREE OF BACHELOR OF TECHNOLOGY by Mahatma Gandhi University, Kottayam during the academic year 2016-17.

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DEPARTMENT OF CIVIL ENGINEERING
MANGALAM COLLEGE OF ENGINEERING, ETTUMANOOR.



CERTIFICATE

This is to certify that the project report entitled "ANALYSIS AND DESIGN OF COMMUNITY HEALTH CENTRE, RAMAPURAM, PALA" is the authentic record of the project performed by, AMAL ABRAHAM, JOBIN JOSE, HARITHA H and MEERA K S in partial fulfilment of the requirements for the award of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING of Mahatma Gandhi University, Kottayam. The contents of the report, in full or in parts, have not been submitted to any other University for the award of any degree.

Deepthy S Nair

Assistant Professor

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Manoj C M

Assistant Professor

(Project Co-ordinator)

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Reshma Kassim

Associate Professor

(Head of the Department)

DEPARTMENT OF CIVIL ENGINEERING
MANGALAM COLLEGE OF ENGINEERING, ETTUMANOOR.



CERTIFICATE

This is to certify that the project entitled "STUDY OF WETLAND IN VECHOOOR GP, KOTTAYAM DIST., KERALA STATE, USING GIS & RS" is the authentic record of the project performed by RAHUL M, SNEHA TOM, SREELAKSHMI PM and SAI KRISHNAN in partial fulfilment of the requirements for the award of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING of Mahatma Gandhi University, Kottayam. The contents of the report, in full or in parts, have not been submitted to any other University for the award of any degree.

Reni Kuruvilla

Assistant Professor.

(Guide)

Bennet Kuriakose

Associate Professor.

(Project Coordinator)

Reshma Kassim

Associate Professor.

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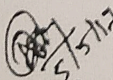
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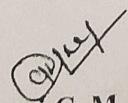
DEPARTMENT OF CIVIL ENGINEERING
MANGALAM COLLEGE OF ENGINEERING, ETTUMANOOR.

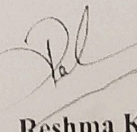


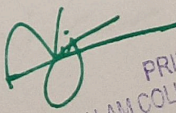
CERTIFICATE

This is to certify that the seminar report entitled DESIGN OF MULTISTOREY BUILDING BY USING STAAD PRO is record of the bonafide work done by ADHEENA ANNA THOMAS, ASHIK SHAJI, ASHIL SAJAN, VISHNU SURESH, submitted in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in CIVIL ENGINEERING of Mangalam college of Engineering , Kottayam. The contents of the report, in full or in parts, have not been submitted to any other university for the award of any degree.


Deepak K Lakshmanan,
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(Guide)


Manoj C. M,
Assistant Professor.
(Project Coordinator)


Reshma Kassim,
Associate Professor.
(Head of the Department)

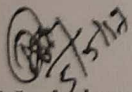

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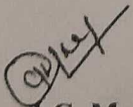
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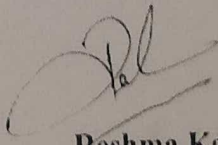


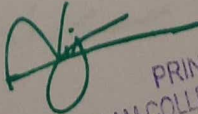
CERTIFICATE

This is to certify that the seminar report entitled DESIGN OF MULTISTOREY BUILDING BY USING STAAD PRO is record of the bonafide work done by ADHEENA ANNA THOMAS, ASHIK SHAJI, ASHIL SAJAN, VISHNU SURESH, submitted in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in CIVIL ENGINEERING of Mangalam college of Engineering , Kottayam. The contents of the report, in full or in parts, have not been submitted to any other university for the award of any degree.


Deepak K Lakshmanan,
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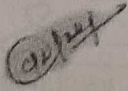
DEPARTMENT OF CIVIL ENGINEERING
MANGALAM COLLEGE OF ENGINEERING, ETTUMANOOR.





CERTIFICATE

This is to certify that the report entitled "ANALYSIS OF BEACH SEDIMENT TRANSPORT AT MUTHALAPOZHI FISHING HARBOUR, THIRUVANANTHAPURAM DIST., KERALA" is the authentic record of the project performed by ANJU DAS K, ANJUSHA A S, ATHIRA C and ATHIRA RAJ in partial fulfilment of the requirements for the award of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING of Mahatma Gandhi University, Kottayam. The contents of the report, in full or in parts, have not been submitted to any other University for the award of any degree.


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CERTIFICATE

This is to certify that the report entitled "A MANAGEMENT PLAN FOR THE MINADAM Ar. WATERSHED, MEENACHIL R. BASIN, KERALA" is the authentic record of the project performed by KRISHNENDU T PRAKASH, PREETHY SARA PRASAD, RAHUL S and AJITH C GUPTHAN in partial fulfilment of the requirements for the award of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING of Mahatma Gandhi University, Kottayam. The contents of the report, in full or in parts, have not been submitted to any other University for the award of any degree.

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Reshma Kassim
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CERTIFICATE

This is to certify that the report entitled "DESIGN OF BORED CAST-IN SITU PILE IN COASTAL REGION" is the authentic record of the project performed by AADHARSH V SAGAR, HUSSAIN THAHA, RESMITHA R, SHALU JAMES in partial fulfillment of the requirements for the award of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING of Mahatma Gandhi University, Kottayam. The contents of the report, in full or in parts, have not been submitted to any other University for the award of any degree.

Anitha Philip,
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Manoj C M,
Assistant Professor.
(Project Coordinator)

Reshma Kassim,
Associate Professor.
(Head of the Department)

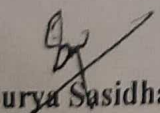
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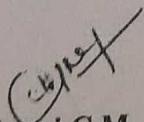
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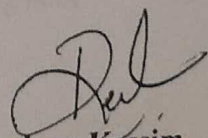


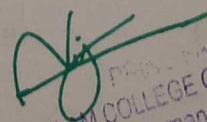
CERTIFICATE

This is to certify that the report entitled "SUITABILITY OF VARIOUS INDUSTRIAL WASTES ON IMPROVING GEOTECHNICAL PROPERTIES OF KUTTANAD CLAY" is a record of the bonafide work done by ANJANA PJ (Reg.No:12007769), JOHN V THOMAS (Reg.No:12007823), SETHUNADH S (Reg.No:12007809) SIKHA V PRASENAN (Reg.No:12008196) ,in partial fulfilment of the requirements for the award of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING of Mahatma Gandhi University, Kottayam. The contents of the report, in full or in parts, have not been submitted to any other University for the award of any degree.


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CERTIFICATE

This is to certify that the report entitled "EXPERIMENTAL STUDY OF MICROPILE GROUP EFFICIENCY UNDER AXIAL LOADING CONDITIONS" is the authentic record of the project performed by AJMAL ASHRAF. A, ANJU KUNJUMON, ANTONY JOHN, ARYA C R, in partial fulfilment of the requirements for the award of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING of Mahatma Gandhi University, Kottayam. The contents of the report, in full or in parts, have not been submitted to any other University for the award of any degree.

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Manoj C M,
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Reshma Kassim,
Associate Professor.
(Head of the Department)

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Ettumanoor

DEPARTMENT OF CIVIL ENGINEERING
MANGALAM COLLEGE OF ENGINEERING,
ETTUMANOOR



CERTIFICATE

This is to certify that the report entitled "STRUCTURAL DESIGN OF THIRD STAGE CONSTRUCTION OF THANNEERMUKKOM SALT WATER BARRIER" is the authentic record of the project done by NATASHA B, SACHIN P BABY, VEENA SANKAR and VISHNURAJ K R in partial fulfilment of the requirements for the award of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING of Mahatma Gandhi University, Kottayam. The contents of the report, in full or in parts, have not been submitted to any other University for the award of any degree.

NISSY SUSAN MANI

ASSISTANT PROFESSOR

INTERNAL GUIDE

MANOJ C M

ASSISTANT PROFESSOR

PROJECT COORDINATOR

RESHMA KASSIM

ASSOCIATE PROFESSOR

HEAD OF THE DEPARTMENT


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DEPARTMENT OF CIVIL ENGINEERING
MANGALAM COLLEGE OF ENGINEERING, ETTUMANOOR.




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This is to certify that the report entitled "*IMPROVING BEARING CAPACITY OF SANDY SOIL BY GROUTING*" is the authentic record of the project performed by **GOKUL VIJAYAN, RESHMA C, RESHMA SHAJI, SIJIL KRISHNAN K S** in partial fulfilment of the requirements for the award of *BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING* of APJ Abdul Kalam Technological University, Thiruvananthapuram. The contents of the report, in full or in parts, have not been submitted to any other University for the award of any degree.


Reni Kuruvilla
Assistant professor.
(Guide)


Anitha Philip
Assistant Professor.
(Project Coordinator)


Dr .Bindumol T V
Associate Professor.
(Head of the Department)


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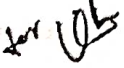


विश्वं शास्त्रे प्रतिष्ठितम्।


CERTIFICATE


This is to certify that the report entitled, "A STUDY ON THE EFFECT OF **Moringa oleifera SEEDS IN WATER PURIFICATION**" submitted by , **MEBIN MATHEW, NANDAGOPAL M , RIYA THOMAS , VARSHA SUSAN JOHN** to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in civil engineering is a bonafide record of the project work carried out by them under our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.


Internal Supervisor
Ms. Karthika S Nair
Assistant professor
Department of civil engineering


UG coordinator
Ms. Anitha Philip
Assistant professor
Department of civil engineering

External supervisor


Head of the department
Dr. Bindu Mol T V
Associate professor
Department of civil engineering


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MANGALAM COLLEGE OF ENGINEERING, ETTUMANOOR.



CERTIFICATE

This is to certify that the report entitled "Effect of silica fume, flyash and glass fibre in high strength concrete" submitted by Abhirami Anil, Ashwin Joseph, Ashwin P.C, Bhavya .R. Nath to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in Civil Engineering is a bonafide record of the project work carried out by him/her under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Geethu Lal

Assistant Professor

Internal Supervisor

Vilbin Varghese

Assistant Professor

Project Coordinator

Dr. Bindumol T.V

Associate Professor

Head of the Department

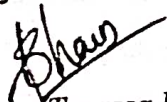
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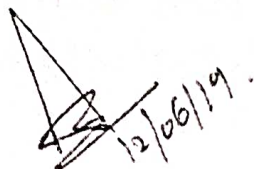
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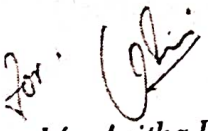


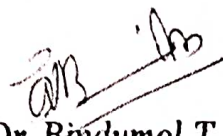
CERTIFICATE


This is to certify that the report entitled "**SEISMIC ANALYSIS OF RE-ENTRANT BUILDINGS**" submitted by **TEENA THOMAS, MITHILA MANMADHAN, GOKUL G, VINU CHANDRAN** to the APJ Abdul Kalam Technological University in partial fulfilment of the requirements of the awards of the Degree of Bachelor of Technology in civil engineering is a bonafide record of the project work carried out by him/her under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.


Ms. Sharon Treassa Biju
Internal Supervisor(s)


External Supervisor(s)
(if any)


Ms. Anitha Philip
UG Coordinator


Dr. Bindumol T V
Head Of The Department


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CERTIFICATE

This is to certify that the report entitled "**Planning, Analysis and Design of multi-storey hospital building using STAAD.PRO**" submitted by **Animol V.A , Aromal Krishna K.B, Daya Das, Rahna Sajeeb** to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in Civil Engineering is a bonafide record of the project work carried out by him/her under our guidance and supervision. This report in any form has not been submitted to any other University or institute for any purpose.

Internal Supervisor

Sreerench Raghav

Assistant Professor

Project Coordinator

Vilbin Varghese

Assistant Professor

Head of Department

Dr. Bindumol T.V.

Professor

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CERTIFICATE

This is to certify that **Mr. SREESANKAR S**, B-Tech (EEE) student from MANGALAM COLLEGE OF ENGINEERING, MANGALAM COMPLEX, S. H. MOUNT, KOTTAYAM, KERALA – 686 006 has successfully completed his 5 days Internship Programme with effect from July 25, 2016 in Kerala State Electronics Development Corporation Limited (K.S.E.D.C. LTD.), **KELTRON CONTROLS DIVISION, Aroor** in partial fulfillment of his Bachelor Degree of Technology in Electrical & Electronics Engineering studies.

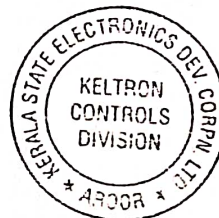
He has undergone Internship Programme (INTS) in our various Strategic Business Units (SBU) (1) Control & Instrumentation (CIG), (2) Strategic Services Group (STSG), (3) Pneumatic Business Group (PNG), (4) Information Technology & Coastal Security Services group (ITG & CSSG) & Common Services Groups (CSG) like Mechanical, Electronics and Fabrication Assembly Shops and Quality Assurance Department (QA).

We wish all success in his future endeavor.

A handwritten signature in black ink, appearing to read 'FERMI JOHN'.

FERMI JOHN

Dy. GENERAL MANAGER (STSG)



29.07.2016

Ganapathi Achari N-Training Coordinator

A handwritten signature in green ink, appearing to be the signature of the Principal.

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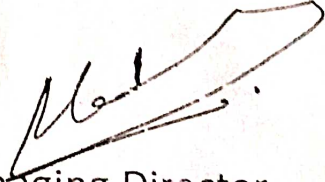
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E-mail : cochincontroleng@gmail.com | Mob : 984722 919


1st August 2016

CERTIFICATE

This is to certify that Vipin Augustine, B.Tech (Electrical & Electronics Engineering) student at Mangalam college of Engineering, Ettumanoor, Kottayam, has carried out his "Industrial training" in Cochin Control Engineers & Contractors for a period of five days from 27th July 2016 to 1st August 2016


Managing Director




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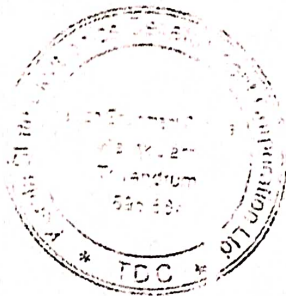
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July 13, 2016

CERTIFICATE

This is to certify that Mr. MONU VISWANATHAN., B.Tech (Electrical & Electronics Engineering) student, MANGALAM COLLEGE OF ENGINEERING, ETTUMANOOR, KOTTAYAM, has successfully completed the Internship Training in our Power Electronics Group (PEG), Tool Room, Fabrication Shop, Transformer Winding, Electro Plating, Security and Surveillance Group (SSG), Special Products Group (SPG), Search and Rescue Beacon (SRB), Plant and Service Department and Technology Development Centre of Keltron Equipment Complex, Thiruvananthapuram from 04/07/2016 to 10/07/2016.

His conduct and character during the period with us were good.



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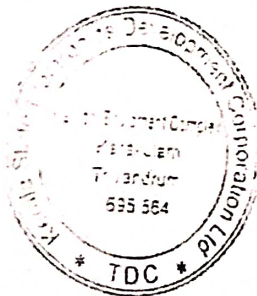
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July 13, 2016

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This is to certify that Mr. RAGHUL R., B.Tech (Electrical & Electronics Engineering) student, MANGALAM COLLEGE OF ENGINEERING, ETTUMANOOR, KOTTAYAM, has successfully completed the Internship Training in our Power Electronics Group (PEG), Tool Room, Fabrication Shop, Transformer Winding, Electro Plating, Security and Surveillance Group (SSG), Special Products Group (SPG), Search and Rescue Beacon (SRB), Plant and Service Department and Technology Development Centre of Keltron Equipment Complex, Thiruvananthapuram from 04/07/2016 to 10/07/2016.

His conduct and character during the period with us were good.




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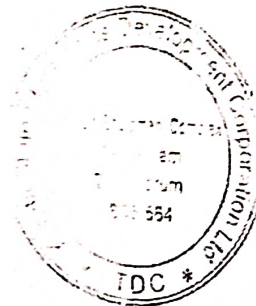
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July 13, 2016

CERTIFICATE

This is to certify that Mr. JITHIN JOHN., B.Tech (Electrical & Electronics Engineering) student, MANGALAM COLLEGE OF ENGINEERING, ETTUMANOOR, KOTTAYAM, has successfully completed the Internship Training in our Power Electronics Group (PEG), Tool Room, Fabrication Shop, Transformer Winding, Electro Plating, Security and Surveillance Group (SSG), Special Products Group (SPG), Search and Rescue Beacon (SRB), Plant and Service Department and Technology Development Centre of Keltron Equipment Complex, Thiruvananthapuram from 04/07/2016 to 10/07/2016.

His conduct and character during the period with us were good.




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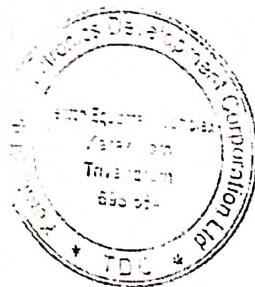
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July 13, 2016

CERTIFICATE

This is to certify that Mr. R RAHUL., B.Tech (Electrical & Electronics Engineering) student, MANGALAM COLLEGE OF ENGINEERING, ETTUMANOOR, KOTTAYAM, has successfully completed the Internship Training in our Power Electronics Group (PEG), Tool Room, Fabrication Shop, Transformer Winding, Electro Plating, Security and Surveillance Group (SSG), Special Products Group (SPG), Search and Rescue Beacon (SRB), Plant and Service Department and Technology Development Centre of Keltron Equipment Complex, Thiruvananthapuram from 04/07/2016 to 10/07/2016.

His conduct and character during the period with us were good.



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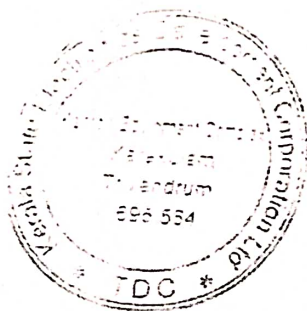
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July 13, 2016

CERTIFICATE

This is to certify that Mr. RICHIN GEORGE MATHEW., B.Tech (Electrical & Electronics Engineering) student, MANGALAM COLLEGE OF ENGINEERING, ETTUMANOOR, KOTTAYAM, has successfully completed the Internship Training in our Power Electronics Group (PEG), Tool Room, Fabrication Shop, Transformer Winding, Electro Plating, Security and Surveillance Group (SSG), Special Products Group (SPG), Search and Rescue Beacon (SRB), Plant and Service Department and Technology Development Centre of Keltron Equipment Complex, Thiruvananthapuram from 04/07/2016 to 10/07/2016.

His conduct and character during the period with us were good.



Chief General Manager

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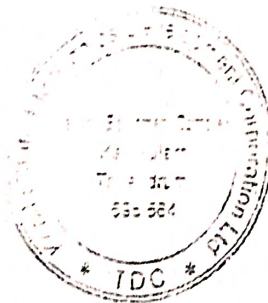
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July 13, 2016

CERTIFICATE

This is to certify that Mr. SHELLY K JAMES., B.Tech (Electrical & Electronics Engineering) student, MANGALAM COLLEGE OF ENGINEERING, ETTUMANOOR, KOTTAYAM, has successfully completed the Internship Training in our Power Electronics Group (PEG), Tool Room, Fabrication Shop, Transformer Winding, Electro Plating, Security and Surveillance Group (SSG), Special Products Group (SPG), Search and Rescue Beacon (SRB), Plant and Service Department and Technology Development Centre of Keltron Equipment Complex, Thiruvananthapuram from 04/07/2016 to 10/07/2016.

His conduct and character during the period with us were good.




Chief General Manager


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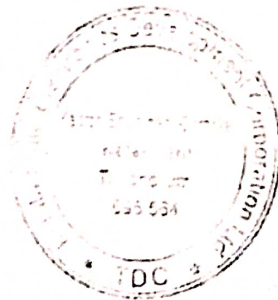
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July 13, 2016

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This is to certify that Mr. TONY PHILIP., B.Tech (Electrical & Electronics Engineering) student, MANGALAM COLLEGE OF ENGINEERING, ETTUMANOOR, KOTTAYAM, has successfully completed the Internship Training in our Power Electronics Group (PEG), Tool Room, Fabrication Shop, Transformer Winding, Electro Plating, Security and Surveillance Group (SSG), Special Products Group (SPG), Search and Rescue Beacon (SRB), Plant and Service Department and Technology Development Centre of Keltron Equipment Complex, Thiruvananthapuram from 04/07/2016 to 10/07/2016.

His conduct and character during the period with us were good.



Chief General Manager

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This is to certify that **Mr. JEEVAN DAS**, B-Tech (EEE) student from MANGALAM COLLEGE OF ENGINEERING, MANGALAM COMPLEX, S. H. MOUNT, KOTTAYAM, KERALA – 686 006 has successfully completed his 5 days Internship Programme with effect from July 25, 2016 in Kerala State Electronics Development Corporation Limited (K.S.E.D.C. LTD.), **KELTRON CONTROLS DIVISION, Aroor** in partial fulfillment of his Bachelor Degree of Technology in Electrical & Electronics Engineering studies.

He has undergone Internship Programme (INTS) in our various Strategic Business Units (SBU) (1) Control & Instrumentation (CIG), (2) Strategic Services Group (STSG), (3) Pneumatic Business Group (PNG),(4) Information Technology & Coastal Security Services group (ITG & CSSG) & Common Services Groups (CSG) like Mechanical, Electronics and Fabrication Assembly Shops and Quality Assurance Department (QA).

We wish all success in his future endeavor.

FERMI JOHN

Dy. GENERAL MANAGER (STSG)



29.07.2016

Ganapathi Achari N-Training Coordinator

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CERTIFICATE

This is to certify that **Mr. JIJO JOHNSON**, B-Tech (EEE) student from MANGALAM COLLEGE OF ENGINEERING, MANGALAM COMPLEX, S. H. MOUNT, KOTTAYAM, KERALA – 686 006 has successfully completed his 5 days Internship Programme with effect from July 25, 2016 in Kerala State Electronics Development Corporation Limited (K.S.E.D.C. LTD.), **KELTRON CONTROLS DIVISION, Aroor** in partial fulfillment of his Bachelor Degree of Technology in Electrical & Electronics Engineering studies.

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We wish all success in his future endeavor.

A handwritten signature in black ink, appearing to read 'Fermi John', is written over a faint circular stamp.

FERMI JOHN

Dy. GENERAL MANAGER (STSG)



29.07.2016

Ganapathi Achari N-Training Coordinator

A handwritten signature in green ink is written over a faint circular stamp.

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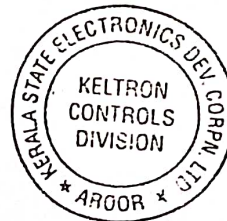
This is to certify that **Mr. NIKHIL R KRISHNAN**, B-Tech (EEE) student from MANGALAM COLLEGE OF ENGINEERING, MANGALAM COMPLEX, S. H. MOUNT, KOTTAYAM, KERALA - 686 006 has successfully completed his 5 days Internship Programme with effect from July 25, 2016 in Kerala State Electronics Development Corporation Limited (K.S.E.D.C. LTD.), **KELTRON CONTROLS DIVISION, Aroor** in partial fulfillment of his Bachelor Degree of Technology in Electrical & Electronics Engineering studies.

He has undergone Internship Programme (INTS) in our various Strategic Business Units (SBU) (1) Control & Instrumentation (CIG), (2) Strategic Services Group (STSG), (3) Pneumatic Business Group (PNG), (4) Information Technology & Coastal Security Services group (ITG & CSSG) & Common Services Groups (CSG) like Mechanical, Electronics and Fabrication Assembly Shops and Quality Assurance Department (QA).

We wish all success in his future endeavor.

FERMI JOHN

Dy. GENERAL MANAGER (STSG)



29.07.2016

Ganapathi Achari N-Training Coordinator

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CERTIFICATE

This is to certify that **Mr. SANU JOSEPH**, B-Tech (EEE) student from MANGALAM COLLEGE OF ENGINEERING, MANGALAM COMPLEX, S. H. MOUNT, KOTTAYAM, KERALA - 686 006 has successfully completed his 5 days Internship Programme with effect from July 25, 2016 in Kerala State Electronics Development Corporation Limited (K.S.E.D.C. LTD.), **KELTRON CONTROLS DIVISION, Aroor** in partial fulfillment of his Bachelor Degree of Technology in Electrical & Electronics Engineering studies.

He has undergone Internship Programme (INTS) in our various Strategic Business Units (SBU) (1) Control & Instrumentation (CIG), (2) Strategic Services Group (STSG), (3) Pneumatic Business Group (PNG), (4) Information Technology & Coastal Security Services group (ITG & CSSG) & Common Services Groups (CSG) like Mechanical, Electronics and Fabrication Assembly Shops and Quality Assurance Department (QA).

We wish all success in his future endeavor.

FERMI JOHN

Dy. GENERAL MANAGER (STSG)



29.07.2016

Ganapathi Achari N-Training Coordinator

PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING

**KERALA STATE ELECTRONICS
DEVELOPMENT CORPORATION LTD.**

(A Government of Kerala Undertaking)
CIN : U74999KL1972SGC002450

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Phone : +91 478 2830700
 +91 478 2872323 - 6 (4 Lines)
Fax : +91 478 2872322
E-mail: kelkca@vsnl.com



CERTIFICATE

This is to certify that **Mr. ANTO JOSE PHILIP**, B-Tech (EEE) student from MANGALAM COLLEGE OF ENGINEERING, MANGALAM COMPLEX, S. H. MOUNT, KOTTAYAM, KERALA - 686 006 has successfully completed his 5 days Internship Programme with effect from July 25, 2016 in Kerala State Electronics Development Corporation Limited (K.S.E.D.C. LTD.), **KELTRON CONTROLS DIVISION, Aroor** in partial fulfillment of his Bachelor Degree of Technology in Electrical & Electronics Engineering studies.

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We wish all success in his future endeavor.

FERMI JOHN

Dy. GENERAL MANAGER (STSG)



29.07.2016

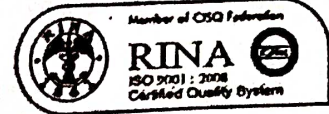
Ganapathi Achari N-Training Coordinator

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E-mail : kelkcs@vsnl.com



CERTIFICATE

This is to certify that **Mr. ANTO JOSE PHILIP**, B-Tech (EEE) student from **MANGALAM COLLEGE OF ENGINEERING, MANGALAM COMPLEX, S. H. MOUNT, KOTTAYAM, KERALA - 686 006** has successfully completed his 5 days Internship Programme with effect from July 25, 2016 in Kerala State Electronics Development Corporation Limited (K.S.E.D.C. LTD.), **KELTRON CONTROLS DIVISION, Aroor** in partial fulfillment of his Bachelor Degree of Technology in Electrical & Electronics Engineering studies.

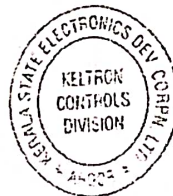
He has undergone Internship Programme (INTS) in our various Strategic Business Units (SBU) (1) Control & Instrumentation (CIG), (2) Strategic Services Group (STSG), (3) Pneumatic Business Group (PNG), (4) Information Technology & Coastal Security Services group (ITG & CSSG) & Common Services Groups (CSG) like Mechanical, Electronics and Fabrication Assembly Shops and Quality Assurance Department (QA).

We wish all success in his future endeavor.

A handwritten signature in black ink, appearing to read 'Fermi John'.

FERMI JOHN

Dy. GENERAL MANAGER (STSG)



29 07 2016

Genapathi Achari N-Training Coordinator

A handwritten signature in green ink, appearing to be a stylized name.

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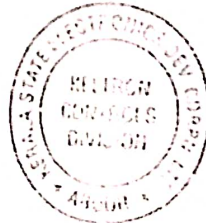
This is to certify that Mr. NIKHIL R KRISHNAN, B-Tech (EEE) student from MANGALAM COLLEGE OF ENGINEERING, MANGALAM COMPLEX, S. H. MOUNT, KOTTAYAM, KERALA - 686 006 has successfully completed his 5 days Internship Programme with effect from July 25, 2016 in Kerala State Electronics Development Corporation Limited (K.S.E.D.C. LTD.), KELTRON CONTROLS DIVISION, Aroor in partial fulfillment of his Bachelor Degree of Technology in Electrical & Electronics Engineering studies.

He has undergone Internship Programme (INTS) in our various Strategic Business Units (SBU) (1) Control & Instrumentation (CIG), (2) Strategic Services Group (STSG), (3) Pneumatic Business Group (PNG) (4) Information Technology & Coastal Security Services group (ITG & CSSG) & Common Services Groups (CSG) like Mechanical, Electronics and Fabrication Assembly Shops and Quality Assurance Department (QA).

We wish all success in his future endeavor

FERMI JOHN

Dy. GENERAL MANAGER (STSG)



29.07.2016

Ganapathi Achan N Training Coordinator

PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
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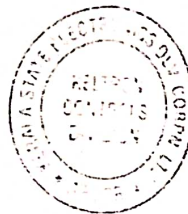
This is to certify that **Mr. SREESANKAR S**, B-Tech (EEE) student from MANGALAM COLLEGE OF ENGINEERING, MANGALAM COMPLEX, S. H. MOUNT, KOTTAYAM, KERALA - 686 006 has successfully completed his 5 days Internship Programme with effect from July 25, 2016 in Kerala State Electronics Development Corporation Limited (K.S.E.D.C. LTD.), **KELTRON CONTROLS DIVISION, Aroor** in partial fulfillment of his Bachelor Degree of Technology in Electrical & Electronics Engineering studies.

He has undergone Internship Programme (INTS) in our various Strategic Business Units (SBU) (1) Control & Instrumentation (CIG), (2) Strategic Services Group (STSG), (3) Pneumatic Business Group (PNG), (4) Information Technology & Coastal Security Services group (ITG & CSSG) & Common Services Groups (CSG) like Mechanical, Electronics and Fabrication Assembly Shops and Quality Assurance Department (QA).

We wish all success in his future endeavor

FERMI JOHN

Dy. GENERAL MANAGER (STSG)



29.07.2016

Genapati Achari N-Training Coordinator

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E-mail: kelkca@vsnl.com



CERTIFICATE

This is to certify that **Mr. JIJO JOHNSON**, B-Tech (EEE) student from **MANGALAM COLLEGE OF ENGINEERING, MANGALAM COMPLEX, S. H. MOUNT, KOTTAYAM, KERALA - 686 006** has successfully completed his 5 days Internship Programme with effect from July 25, 2016 in Kerala State Electronics Development Corporation Limited (K.S.E.D.C. LTD.), **KELTRON CONTROLS DIVISION, Aroor** in partial fulfillment of his Bachelor Degree of Technology in Electrical & Electronics Engineering studies.

He has undergone Internship Programme (INTS) in our various Strategic Business Units (SBU) (1) Control & Instrumentation (CIG), (2) Strategic Services Group (STSG), (3) Pneumatic Business Group (PNG), (4) Information Technology & Coastal Security Services group (ITG & CSSG) & Common Services Groups (CSG) like Mechanical, Electronics and Fabrication Assembly Shops and Quality Assurance Department (QA).

We wish all success in his future endeavor

A handwritten signature in black ink, appearing to read 'Fermi John'.

FERMI JOHN

Dy. GENERAL MANAGER (STSG)



29.07.2016

Ganapathi Achari N-Training Coordinator

A handwritten signature in green ink, appearing to be the signature of the Principal.

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This is to certify that Mr. JEEVAN DAS, B-Tech (EEE) student from MANGALAM COLLEGE OF ENGINEERING, MANGALAM COMPLEX, S. H. MOUNT, KOTTAYAM, KERALA - 686 006 has successfully completed his 5 days Internship Programme with effect from July 25, 2016 in Kerala State Electronics Development Corporation Limited (K.S.E.D.C. LTD.), KELTRON CONTROLS DIVISION, Aroor in partial fulfillment of his Bachelor Degree of Technology in Electrical & Electronics Engineering studies.

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We wish all success in his future endeavor.

FERMI JOHN

Dy. GENERAL MANAGER (STSG)



29.07.2016

Ganapathi Achary N Training Coordinator

GANAPATHI ACHARY N
MANGALAM COLLEGE OF ENGINEERING
Mangaloor

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Fax : +91 478 2872322

E-mail: kelka@vsnl.com

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CERTIFICATE

This is to certify that **Mr. SANU JOSEPH**, B-Tech (EEE) student from **MANGALAM COLLEGE OF ENGINEERING, MANGALAM COMPLEX, S. H. MOUNT, KOTTAYAM, KERALA - 686 006** has successfully completed his 5 days Internship Programme with effect from July 25, 2016 in Kerala State Electronics Development Corporation Limited (K.S.E.D.C. LTD.), **KELTRON CONTROLS DIVISION, Aroor** in partial fulfillment of his Bachelor Degree of Technology in Electrical & Electronics Engineering studies

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We wish all success in his future endeavor

FERMI JOHN

Dy. GENERAL MANAGER (STSG)



29 07 2016

Ganapathi Achari N Training Coordinator

PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
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Fax : 91-0484-2787702
E-mail : mamala@kel.co.in
CIN : U31200KL 1964 SGC002062
Website : www.kel.co.in



MPA/61/ 81 /16

15th July, 2016

CERTIFICATE


This is to certify that Ms.Parvathy S Menon, 4th semester EEE (Electrical & Electronics Engineering) Student, Mangalam College of Engineering, Mangalam Campus, Mangalam Hills, Vettimukal P.O., Ettumanoor, Kottayam-686 631 has successfully completed the "Implant Training" in Various Sections of Transformer Division such as Winding, Core Building, Core Coil Assembly, Terminal Gear Fixing, Tanking and Testing at the Mamala Unit of the Company for a period of Seven days from 08/07/2016.

Her conduct and character during the period with us were good.




ASST. MANAGER (P&A)

IBRAHIM SHERIF
Asst. Manager (P&A)
Kerala Electrical & Allied Engineering Co. Ltd.
(A Govt. of Kerala Undertaking)
Mamala P.O., Kochi-682 305


PRINCIPAL
MANGALAM COLLEGE OF ENGINEERING
Ettumanoor

Corporate Office

7th Floor, Housing Board Office Complex, Panampilly Nagar, Kochi - 682 036, India
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CIN : U31200KL 1964 SGC002062
Website : www.kel.co.in



MPA/61/ /16

15th July, 2016

CERTIFICATE

This is to certify that Ms.Steny Jacob, 4th semester EEE (Electrical & Electronics Engineering) Student, Mangalam College of Engineering, Mangalam Campus, Mangalam Hills, Vettimukal P.O., Ettumanoor, Kottayam-686 631 has successfully completed the "Implant Training" in Various Sections of Transformer Division such as Winding, Core Building, Core Coil Assembly, Terminal Gear Fixing, Tanking and Testing at the Mamala Unit of the Company for a period of Seven days from 08/07/2016.

Her conduct and character during the period with us were good.



ASST. MANAGER (P&A)

RAJESH SHERIF
Asst. Manager (P&A)
Kerala Electrical & Allied Engineering Co. Ltd.
(Govt. of Kerala Undertaking)
Mamala P.O., Kochi-682 305

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MANGALAM COLLEGE OF ENGINEERING
Ettumanoor

Corporate Office

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PIN : U31200KL 1964 SGC002062
Website : www.kel.co.in



MPA/61/ 2008 / 116

15th July, 2016

CERTIFICATE

This is to certify that Mr.Narayanankutty.G, 4th semester EEE (Electrical & Electronics Engineering) Student, Mangalam College of Engineering, Mangalam Campus, Mangalam Hills, Vettimukal P.O., Ettumanoor, Kottayam-686 631 has successfully completed the "Implant Training" in Various Sections of Transformer Division such as Winding, Core Building, Core Coil Assembly, Terminal Gear Fixing, Tanking and Testing at the Mamala Unit of the Company for a period of Seven days from 08/07/2016.

His conduct and character during the period with us were good.



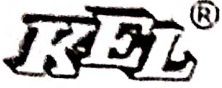
ASST. MANAGER (P&A)

IBRAHIM SHERIF
Asst. Manager (P&A)
Electrical & Allied Engineering Co. Ltd.
(Govt. of Kerala Undertaking)
Mamala P.O., Kochi-682 305

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Ettumanoor

Corporate Office

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CIN : U31200KL 1964 SGC002082
Website : www.kel.co.in



15th July, 2016

MPA/61/ /16

CERTIFICATE

This is to certify that Ms. AINU ANN MATHEW, 4th semester EEE (Electrical & Electronics Engineering) Student, Mangalam College of Engineering, Mangalam Campus, Mangalam Hills, Vettimukal P.O., Ettumanoor, Kottayam-686 631 has successfully completed the "Implant Training" in Various Sections of Transformer Division such as Winding, Core Building, Core Coil Assembly, Terminal Gear Fixing, Tanking and Testing at the Mamala Unit of the Company for a period of Seven days from 08/07/2016.

Her conduct and character during the period with us were good.

ASST. MANAGER (P&A)

M. DAHIM MURTHI
Asst. Mgr. (P&A)
KEL
Kerala Under-takings
Mamala P.O., Kochi

Corporate Office

7th Floor, Housing Board Office Complex, Panampilly Nagar, Kochi - 682 036, India
EPABX : 0484-2310012 / 13 / 14, 2318960 / 61, Fax : (0484) 2310015
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KERALA ELECTRICAL & ALLIED ENGINEERING CO. LTD.

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Website : www.kel.co.in



MPA/61/ /16

15th July, 2016

CERTIFICATE

This is to certify that the following, 4th semester B.Tech. EEE (Electrical & Electronics Engineering) Students, Mangalam College of Engineering, Mangalam Campus, Mangalam Hills, Vettimukal P.O., Ettumanoor, Kottayam-686 631 have successfully completed the "Implant Training" in Various Sections of Transformer Division such as Winding, Core Building, Core Coil Assembly, Terminal Gear Fixing, Tanking and Testing at the Mamala Unit of the Company for a period of Seven days from 07/07/2016.

Their conduct and character during the period were good.


ASST. MANAGER (P&A)


PARVATHY SHERIF
(P&A)
Kerala Electrical & Allied Engineering Co. Ltd.
(Undertaking)
682 305

To,

Mr. Narayanankutty. G
Ms. Parvathy S Menon
Ms. Arya K Ajayan
Ms. Steny Jacob
Ms. Anju Murukan
Ms. AINU Ann Mathew
Ms. Manju B Pillai
Ms. Shimil E Philip

Corporate Office

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Ettumanoor



UNIPOWER

UTPL/HR/2016-17/T04

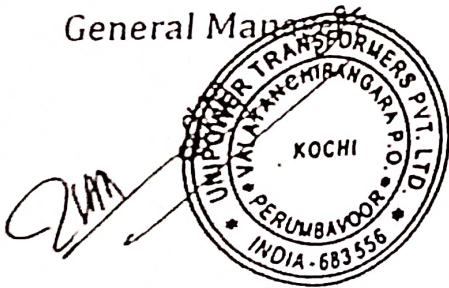
TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Aldrin Tony , Second Semester Electrical and Electronics Engineering Student From Mangalam College of Engineering Successfully completed 5 days (From 14th June 2016 to 18th June 2016) long Industrial Training at this Organization. His training activity includes familiarization to all the production processes like Winding, Core building, Assembling and final inspection, Transformer Testing like SC and OC test, Separate source voltage withstand test, Induced over voltage test, Ratio test, Resistance measurement test, Megger test, and Quality control procedures etc...

During the period of his Industrial Training program with us he had been found punctual, Listening and inquisitive. We wish him every success in his life and career.

For, Unipower Transformers Pvt Ltd

General Manager



UNIPOWER TRANSFORMERS PVT. LTD.

VI/539/A & B, Valayanchirangara- Perumani Road, Valayanchirangara P.O - 683 556
Perumbavoor, Emakulam Dist., Kerala, India. Tel : 0484 2657396

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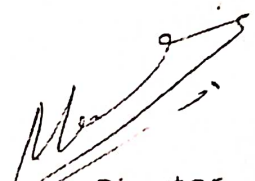
Cochin Control Engineers & Contractors

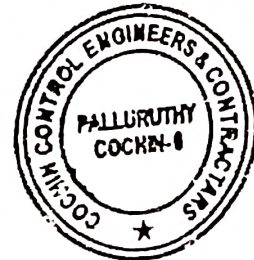
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E-mail : cochincontroleng@gmail.com | Mob : 9847222919

1st August 2016

CERTIFICATE

This is to certify that Abhijith A, B.Tech (Electrical & Electronics Engineering) student at Mangalam college of Engineering, Ettumanoor, Kottayam, has carried out his "Industrial training" in Cochin Control Engineers & Contractors for a period of five days from 27th July 2016 to 1st August 2016


Managing Director





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Cochin Control Engineers & Contractors

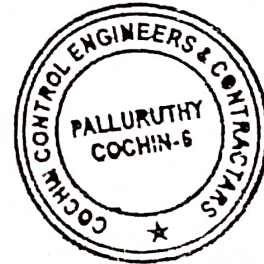
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E-mail : cochincontroleng@gmail.com | Mob : 9847222919

1st August 2016

CERTIFICATE

This is to certify that Vipin Augustine, B.Tech (Electrical & Electronics Engineering) student at Mangalam college of Engineering, Ettumanoor, Kottayam, has carried out his "Industrial training" in Cochin Control Engineers & Contractors for a period of five days from 27th July 2016 to 1st August 2016


Managing Director




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MANGALAM COLLEGE OF ENGINEERING
Ettumanoor

Cochin Control Engineers & Contractors

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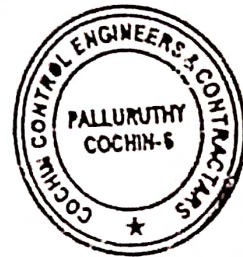
1st August 2016

CERTIFICATE

This is to certify that Anand Mathew, B.Tech (Electrical & Electronics Engineering) student at Mangalam college of Engineering, Ettumanoor, Kottayam, has carried out his "Industrial training" in Cochin Control Engineers & Contractors for a period of five days from 27th July 2016 to 1st August 2016



Managing Director



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MANGALAM COLLEGE OF ENGINEERING
Ettumanoor


Cochin Control Engineers & Contractors

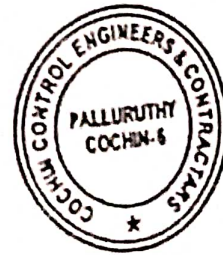
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E-mail : cochincontroleng@gmail.com | Mob : 9847222919

1st August 2016

CERTIFICATE

This is to certify that Arun P.S, B.Tech (Electrical & Electronics Engineering) student at Mangalam college of Engineering, Ettumanoor, Kottayam, has carried out his "Industrial training" in Cochin Control Engineers & Contractors for a period of five days from 27th July 2016 to 1st August 2016


Managing Director




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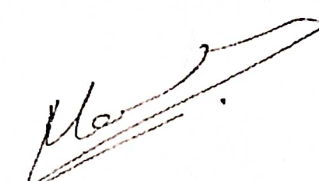
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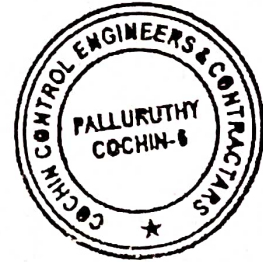
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1st August 2016

CERTIFICATE

This is to certify that Francis Ignasious, B.Tech (Electrical & Electronics Engineering) student at Mangalam college of Engineering, Ettumanoor, Kottayam, has carried out his "Industrial training" in Cochin Control Engineers & Contractors for a period of five days from 27th July 2016 to 1st August 2016


Managing Director




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1st August 2016

CERTIFICATE

This is to certify that Abhijith Krishna, B.Tech (Electrical & Electronics Engineering) student at Mangalam college of Engineering, Ettumanoor, Kottayam, has carried out his "Industrial training" in Cochin Control Engineers & Contractors for a period of five days from 27th July 2016 to 1st August 2016


Managing Director




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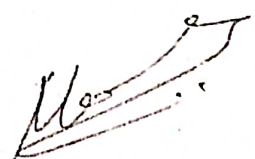
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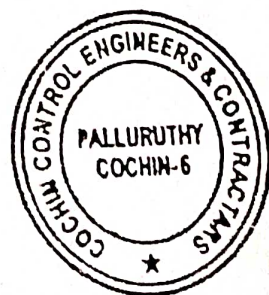
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1st August 2016

CERTIFICATE

This is to certify that Arun P.S, B.Tech (Electrical & Electronics Engineering) student at Mangalam college of Engineering, Ettumanoor, Kottayam, has carried out his "Industrial training" in Cochin Control Engineers & Contractors for a period of five days from 27th July 2016 to 1st August 2016


Managing Director




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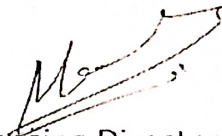
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1st August 2016

CERTIFICATE

This is to certify that Ajay Roy, B.Tech (Electrical & Electronics Engineering) student at Mangalam college of Engineering, Ettumanoor, Kottayam, has carried out his "Industrial training" in Cochin Control Engineers & Contractors for a period of five days from 27th July 2016 to 1st August 2016


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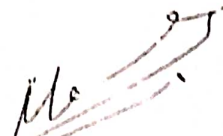
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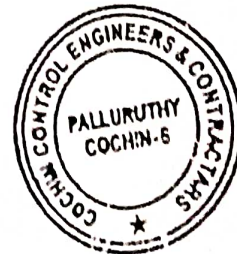
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1st August 2016

CERTIFICATE

This is to certify that Kevin Sebastian, B.Tech (Electrical & Electronics Engineering) student at Mangalam college of Engineering, Ettumanoor, Kottayam, has carried out his "Industrial training" in Cochin Control Engineers & Contractors for a period of five days from 27th July 2016 to 1st August 2016


Managing Director




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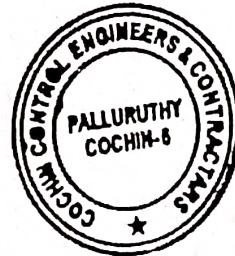
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1st August 2016

CERTIFICATE

This is to certify that Sujith P.M, B.Tech (Electrical & Electronics Engineering) student at Mangalam college of Engineering, Ettumanoor, Kottayam, has carried out his "Industrial training" in Cochin Control Engineers & Contractors for a period of five days from 27th July 2016 to 1st August 2016


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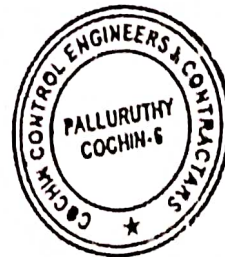
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1st August 2016

CERTIFICATE

This is to certify that Jithuraj R, B.Tech (Electrical & Electronics Engineering) student at Mangalam college of Engineering, Ettumanoor, Kottayam, has carried out his "Industrial training" in Cochin Control Engineers & Contractors for a period of five days from 27th July 2016 to 1st August 2016


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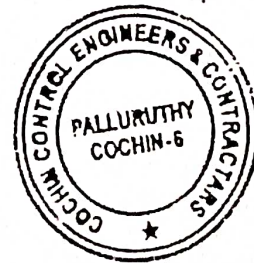
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1st August 2016

CERTIFICATE

This is to certify that Nikhin Das, B.Tech (Electrical & Electronics Engineering) student at Mangalam college of Engineering, Ettumanoor, Kottayam, has carried out his "Industrial training" in Cochin Control Engineers & Contractors for a period of five days from 27th July 2016 to 1st August 2016


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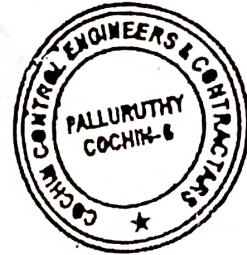
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CERTIFICATE

This is to certify that Yadu Krishnan V.A, B.Tech (Electrical & Electronics Engineering) student at Mangalam college of Engineering, Ettumanoor, Kottayam, has carried out his "Industrial training" in Cochin Control Engineers & Contractors for a period of five days from 27th July 2016 to 1st August 2016


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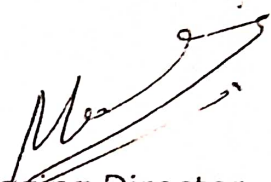
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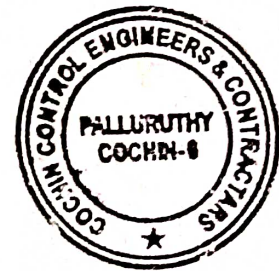
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This is to certify that Abhijith A, B.Tech (Electrical & Electronics Engineering) student at Mangalam college of Engineering, Ettumanoor, Kottayam, has carried out his "Industrial training" in Cochin Control Engineers & Contractors for a period of five days from 27th July 2016 to 1st August 2016


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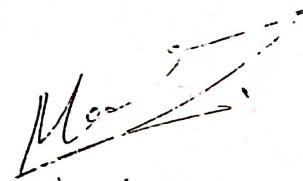
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1st August 2016

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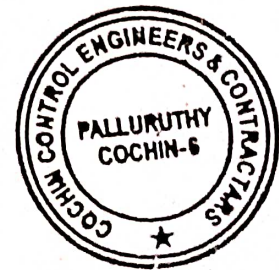
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1st August 2016

CERTIFICATE

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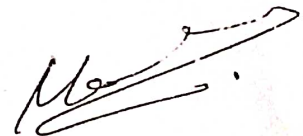
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1st August 2016

CERTIFICATE

This is to certify that Anand Mathew, B.Tech (Electrical & Electronics Engineering) student at Mangalam college of Engineering, Ettumanoor, Kottayam, has carried out his "Industrial training" in Cochin Control Engineers & Contractors for a period of five days from 27th July 2016 to 1st August 2016



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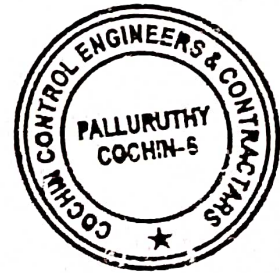
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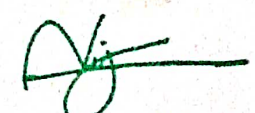
1st August 2016

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Managing Director




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Ettumanoor



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

MANGALAM COLLEGE OF ENGINEERING

(Affiliated to Mahatma Gandhi University)

ETTUMANOOR, KOTTAYAM

CERTIFICATE

This is to certify that the Mini Project titled "The Speed Checker And Over Speed Detector In Highways By Using Microcontroller" is a record of the bonafide work done by RAVI KUMAR (Reg. No. 14008314), VIPIN BABU (14008313), ANJU MURUKAN (14008387) submitted in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology (BTech) in ELECTRICAL AND ELECTRONICS of Mangalam College of Engineering.

Liya Alias

Asst: Professor

Mini Project Coordinator

Benny K K

Asso: Professor

HOD,EEE,MLMCE

Ettumanoor, Kottayam, during the academic year 2016-17

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MANGALAM COLLEGE OF ENGINEERING
Ettumanoor



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
MANGALAM COLLEGE OF ENGINEERING

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ETTUMANOOR, KOTTAYAM


CERTIFICATE

This is to certify that the Mini Project titled "**DIGITAL VOLTMETER USING ATMEGA 328 MICROCONTROLLER**" is a record of the bonafide work done by **JAYESH.P.J** (Reg. No.14008397), **SHIMLE.E.PHILIP**(Reg.No.14008413), **STENY.JACOB**(Reg.NO.14008415), **SUBISH.P.S** (Reg.No.14008416) submitted in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology (BTech) in **ELECTRICAL AND ELECTRONICS** of Mangalam College of Engineering.


Liya Alias

Asst: Professor


Mini Project Coordinator


Benny K K

Asso: Professor

HOD,EEE,MLMCE

Ettumanoor, Kottayam, during the academic year 2016-17


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

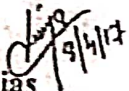
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ETTUMANOOR, KOTTAYAM

CERTIFICATE

This is to certify that the Mini Project titled “DENSITY BASED TRAFFIC SIGNAL SYSTEM” is a record of the bonafide work done by TINU CYRIAC (Reg. No. 14008310), VASDEV V (Reg. No. 14008311), VINED MATHEW (Reg. No. 14008312) submitted in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology (BTech) in ELECTRICAL AND ELECTRONICS of Mangalam College of Engineering,


Liya Alias

Asst:Professor

Mini Project Coordinator


Benny K K

AssoProf

HOD,EEE,MLMCE

Ettumanoor, Kottayam, during the academic year 2016-17


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