

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences

Following Documents are shared / attached below:

- **Integrating Experience for Projects**
 - **Mini / Minor / Senior Design / Capstone**
 - **Mini -Sample copy of EEE Department**
 - **Minor -Sample copy of Mechanical Department**
 - **Senior Design Project**
 - **Capstone -Sample copy of Civil Department**
 - **Sample copy of a Student Project Report**



Department of Electrical & Electronics Engineering

Odd Semester 2021-22

5th Semester Mini Project Batches

Sl No.	Name	USN	Guide.	Batch No	Title
1	RASHMI KURTAKOTI	01FE19BEE071	Dr. M R Kappali	B1	Mathematical Modelling of Hybrid Energy Storage Involving Battery and Super – Capacitor for EV Application
	BHAGYASHRI M BILAGI	01FE20BEE405			
	SAMIUN MUMIGATTI	01FE20BEE407			
	SABATASREEN M	01FE20BEE409			
2	NIKHITA BANAPUR	01FE19BEE048	Mr. Siddarameshwar H N	B2	Comparative study of short term load forecasting techniques
	AISHWARYA M HAVALANNAVAR	01FE19BEE063			
	VANSHI S ELLUR	01FE19BEE067			
	NEHA R RAIKAR	01FE19BEE079			
3	LAKSHMISHREE C PATIL	01FE19BEE086	Mrs. Minal Salunke	B3	Modeling and Simulation of Position Control Servomechanism using Pole Placement Tuning Approach
	NIVEDITA LAKKUNDI	01FE19BEE090			
	KAVYA B METI	01FE19BEE096			
	VINAYKUMAR WALI	01FE20BEE404			
4	UDAYA RAMACHANDRA B	01FE19BEE082	Mr. Anoopkumar Patil	B4	Modelling and Analysis of Boost Converter using Euler's method
	ABHISHEK RAJEEV PATTAR	01FE19BEE092			
	SWASTIK S CHOBARI	01FE19BEE098			
	SACHIN SIDDAPPA PARAGOND	01FE19BEE110			
5	SHUBHAM KUMAR GUPTA	01FE19BEE030	Ms. Anupama R Itagi	B5	Calculation of State of Charge (SOC) & State of Health (SOH) of the Laptop Battery Using Coulomb Counting Method
	PRANAV A NAIK	01FE19BEE031			
	SHESHANK SHYAM KINDALKAR	01FE19BEE049			
	SHREYA S HARLAPUR	01FE19BEE055			
6	PRAJWAL H VASANAD	01FE19BEE007	Mr. Kiran R Patil	B6	Determination of Parameters of Single Phase AC Voltage Controller with RL-Load
	SATVIK M CHAVAN	01FE19BEE008			
	ABHISHEK IRANNA VANDAL	01FE19BEE011			
	HARSH M GOUDAR	01FE19BEE012			
7	SUMUKHA HOLLA B S	01FE19BEE019	Dr. A B Raju	B7	Modelling and Simulation of Switched Reluctance Motor for Electric Vehicles
	SUSHANTH G MAIYA	01FE19BEE020			
	SANGAMESH PATIL	01FE19BEE027			
	GIRISH PATIL	01FE19BEE051			
8	AMIT MALLIKARJUN MASUTI	01FE19BEE003	Mr. Sachin Angadi	B8	New Bidirectional Step-Up-DC-DC Converter Derived from Buck – Boost DC-DC Converter
	ANISHA A BAGEWADI	01FE19BEE009			
	BHAGYASHREE G RANJOLKAR	01FE19BEE039			
	SHREYA C DIGGAI	01FE19BEE040			



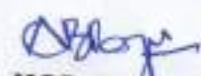
Sl No.	Name	USN	Guide.	Batch No	Title
9	MUSHRAF M DAFEDAR	01FE19BEE002	Mrs. Leah S Joshi	B9	Analysis of full wave rectifier using R-L Load
	NIRUPAM R NAIK	01FE19BEE005			
	R VISHWAS	01FE19BEE046			
10	PRIYANKA D INAMATI	01FE19BEE050	Mrs. Kavita Chachadi	B10	Reverse Regeneration Technique of BLDC Motor for Capacitor Charging
	SHWETA	01FE19BEE058			
	POOJA V KOTRANNAVAR	01FE19BEE061			
	NIKITHA N BANAKAR	01FE19BEE064			
11	SHREEKANTH D CHIGATERI	01FE19BEE042	Mrs. Shilpa Kamath	B11	Steady State Characteristics of Self Excited Induction Generator
	MAYANK	01FE19BEE056			
	PRANATHI A S	01FE19BEE062			
	VASUDHA S PAI	01FE19BEE078			
12	PAYAL P NIRANJAN	01FE19BEE097	Mr. Hanumanthagouda R Patil	B12	Design of PID controller for speed control of PMDC motor
	SAMARTH S TRASAD	01FE20BEE401			
	ABHISHEK A HUTAGI	01FE20BEE402			
	RAMESH N	01FE20BEE403			
13	K SAI CHAITRA	01FE19BEE084	Mr. Hanumanthagouda R Patil	B13	Convergence behaviour of NR method in Loop & Node base Magnetic Equivalent Circuit
	PRATIBHA KURAHATTI	01FE19BEE089			
	RASHMI SUNADHOLI	01FE19BEE109			
	SPOORTI SURESH PUJAR	01FE19BEE111			
14	KARTHIK GURURAJ NAIK	01FE19BEE101	Ms. Shwetha Koraddi	B14	Analysis of multilevel inverter with RL load
	MANJUNATH N BASAVA	01FE19BEE103			
	VEERESH KOUJALAGI	01FE19BEE105			
	SHIVARAJ S HAKARI	01FE19BEE106			
15	SHIVANAND GUDAGI	01FE19BEE010	Ms. Shwetha Koraddi	B15	Analysis of Non Linear Characteristics of Inductor
	ATAURREHMAN A PALLAN	01FE19BEE035			
	ASHPAK KEMALAPUR	01FE19BEE052			
	KALARI VJAYAKUMAR	01FE19BEE053			
16	SAGAR SANADI	01FE19BEE093	Mr. Gurubasu Hombal	B16	Speed Control of PMDC motor using Armature Voltage Control Method
	DHANUSHKUMAR V BHAT	01FE19BEE100			
	ROHAN S SONNAD	01FE19BEE104			
	SIDDHARTH ASHOK NALATAWAD	01FE19BEE114			
17	SANJANA HULAKUND	01FE19BEE016	Mr. Gurubasu Hombal	B17	Performance analysis of buck – boost converter using Euler's method
	MEGHANA RUDRESH DODAMANI	01FE19BEE026			
	JYOTI SURYAVANSHI	01FE19BEE034			



Sl No.	Name	USN	Guide.	Batch No	Title
	ANUSHA A M	01FE19BEE032			
18	NAMRATA SHIVANAND HAVERI	01FE19BEE013	Ms. Aditi Kadam	B18	Performance Analysis of Boost Converter using Numerical Integration Method
	SHIVANI SHIRALI	01FE19BEE036			
	MANAVI M NAIK	01FE19BEE037			
	RANJITA D GADDANAKERI	01FE19BEE038			
19	ANAND KOLLAR	01FE19BEE015	Ms. Aditi Kadam	B19	Taylor matrix solution of Mathematical model of the RLC circuit
	RAHULKUMAR R L	01FE19BEE017			
	AJAYKUMAR RAMU CHAVAN	01FE19BEE028			
20	SINCHANA R RAMANAGOUDAR	01FE19BEE068	Mrs. Jayashree Mallidu	B20	Determination of Parameters of Half Wave Controlled Rectifier with RL Load using Data Structures.
	DIVYA PATIL	01FE19BEE073			
	VRUSHALI KITTUR	01FE19BEE083			
	SEJAL KUNDAN SHETH	01FE19BEE108			
21	MANE SHIVPRIYA AMARSINH	01FE19BEE054	Ms. Padmaja Kallimani	B21	Speed Control of PMDC Motor by Armature Voltage Control Method
	AMRUTH P KAKANTI	01FE19BEE065			
	SAAKSHI A KULKARNI	01FE19BEE075			
	VARSHITA R TORGAL	01FE19BEE077			
22	OMKAR LAMBI	01FE19BEE006	Mr. Altaf Husain	B22	Partial Shading Detection and Global MPPT Algorithm for PV System
	AASIF RAMZAN BHAT	01FE19BEE029			
	SONU KUMAR	01FE19BEE059			
	SACHIN ROY	01FE19BEE066			
23	SHWETHA A U	01FE19BEE085	Ms. Aishwarya Kamatagi	B23	Raising edge of discharge current in RLC circuit by using RLC method
	SUSHANTE S NEELAGUND	01FE19BEE091			
	VIJAYLAXMI ASSAMPOORAMATH	01FE19BEE099			
	RUKMINI YARAGUPPI	01FE19BEE113			
24	YASHASWINI J PATIL	01FE19BEE021	Ms. Aishwarya Kamatagi	B24	Modelling of buck converter operating CCM
	PAVITRA ASKI	01FE19BEE025			
	LAXMI BIRADAR	01FE19BEE033			
	MEGHANA C BELLERIMATH	01FE19BEE060			



Sl No.	Name	USN	Guide	Batch No	Title
25	AKASH SANJAY SONWALKAR	01FE19BEE045	Mrs. Radhika Nadiger	B25	Regenerative Braking using BLDC Motor
	AMIT RAJPUT	01FE18BEE015			
	SAUMYA S	01FE18BEE063			
	DOLA LOUIS PAUL	01FE18BEE118			
26	ADISHREE NANDAN TAMBE	01FE19BEE094	Mrs. Radhika Nadiger	B26	Modelling and Analysis of Boost converter
	SANJANA P TILGAL	01FE19BEE095			
	SANTOSH MALLAPPA BIRADAR	01FE20BEE410			
	ANIL KUMAR TOTAD	01FE20BEE411			
27	SURESH SAVADATTI	01FE19BEE070	Dr. Pavana	B27	Modelling and Analysis of Sepic converter
	SAMEER S MOHAMMADANAVAR	01FE19BEE080			
	SIDDHALINGESH NEERALAGI	01FE20BEE406			
	AJAY ASHOK REVANKAR	01FE20BEE408			
28	PRASANNAKUMAR H KAMALADINNI	01FE19BEE069	Mrs. Sahana Kalligudd	B28	Numerical Analysis of Zeta Converter
	CHANDRASHEKHAR WALIKAR	01FE19BEE072			
	ADITYA MALAJURE	01FE19BEE074			
	SIDDHANT CHORDIA	01FE19BEE081			
29	MANOJ M KARAJOL	01FE19BEE001	Dr. Arjun M & Sachin Angadi	B29	Development of Analytical Model for Partially Shaded Photovoltaic Arrays
	VINAYAK C MAGADAL	01FE19BEE041			
	PREETI OSEKAR	01FE19BEE043			
	ABHISHEK H CHINTAMANI	01FE19BEE044			
30	BINDUSHREE KULKARNI	01FE18BEE025	Mr. Altaf Husain	B 30	Control of Hybrid Electric Vehicle
	SANKET	01FE19BEE102			
	SOUJANYA S SOBARAD	01FE18BEE121			


HOD E&E

Head of the Department
Electrical & Electronics Engineering
KLE Technological University,
HUBBALLI-31.



Department of Electrical & Electronics Engineering

Even Semester 2021-22

6th Semester Minor Project Batches

Sl No.	Name	USN	Guide.	Batch No	Title
1	SUMUKHA HOLLA B S	01FE19BEE019	Dr. A B Raju	B1	Pulse Width Modulation Techniques For Three Level Voltage Source Inverter
	SUSHANTH G MAIYA	01FE19BEE020			
	SANGAMESH PATIL	01FE19BEE027			
	GIRISH PATIL	01FE19BEE051			
2	PRASANNAKUMAR H KAMALADINNI	01FE19BEE069	Mrs. R B Jyoti	B2	Analysis Of MPPT Algorithms For PV Systems
	CHANDRASHEKHAR WALIKAR	01FE19BEE072			
	ADITYA MALAJURE	01FE19BEE074			
	SIDDHANT CHORDIA	01FE19BEE081			
4	VIJAYLAXMI ASSAMPOORAMATH	01FE19BEE099	Dr. M R Kappali	B3	Real Time Status Measurement Of Solar PV Parameter Using IOT
	BHAGYASHRI M BILAGI	01FE20BEE405			
	SAMIUN MUMIGATTI	01FE20BEE407			
	SABATASREEN M	01FE20BEE409			
4	MANOJ M KARAJOL	01FE19BEE001	Dr. M R Kappali	B4	Solar PV FED Community EV charging Arena
	VINAYAK C MAGADAL	01FE19BEE041			
	PREETI OSEKAR	01FE19BEE043			
	ABHISHEK H CHINTAMANI	01FE19BEE044			
5	ADISHREE N TAMBE	01FE19BEE094	Mr. Siddarameshwar H N	B5	Development of Battery Management System For Electric Vehicle
	SANJANA P TILIHAL	01FE19BEE095			
	SANTOSH M BIRADAR	01FE20BEE410			
	ANIL KUMAR TOTAD	01FE20BEE411			
6	LAKSHMISHREE C PATIL	01FE19BEE086	Mrs. Minal Salunke	B6	Smart System For Capturing Energy meter Reading
	NIVEDITA LAKKUNDI	01FE19BEE090			
	KAVYA B METI	01FE19BEE096			
	VINAYKUMAR WALI	01FE20BEE404			
7	SINCHANA R RAMANAGOUDAR	01FE19BEE068	Mrs. Minal Salunke	B7	Design and Development of Smart Power Management System
	DIVYA PATIL	01FE19BEE073			
	VRUSHALI KITTUR	01FE19BEE083			
	SEJAL KUNDAN SHETH	01FE19BEE108			
8	SHUBHAM KUMAR GUPTA	01FE19BEE030	Ms. Anupama R Itagi	B8	Detection of Chronic Respiratory Diseases using Raspberry Pi and Stethoscope
	RANJITA D GADDANAKERI	01FE19BEE038			
	SHESHANK SHYAM KINDALKAR	01FE19BEE049			
	PRIYANKA D INAMATI	01FE19BEE050			

Sl No.	Name	USN	Guide.	Batch No	Title
9	UDAYA RAMACHANDRA B	01FE19BEE082	Mr. Anoopkumar Patil	B9	Two phase interleaved boost Converter
	ABHISHEK RAJEEV PATTAR	01FE19BEE092			
	SWASTIK S CHOBARI	01FE19BEE098			
	SACHIN SIDDAPPA PARAGOND	01FE19BEE110			
10	PRAJWAL H VASANAD	01FE19BEE007	Mr. Kiran R Patil	B10	Smart Energy Monitoring System Using IOT
	SATVIK M CHAVAN	01FE19BEE008			
	ABHISHEK IRANNA VANDAL	01FE19BEE011			
	HARSH M GOUDAR	01FE19BEE012			
11	SHIVANI SHIRALI	01FE19BEE036	Mr. Sachin Angadi	B11	Rapid Control Prototyping for Development of Control Strategy Of PMBLDCM Drive Using TI's TM320F28069M
	MANAVI M NAIK	01FE19BEE037			
	SAAKSHI A KULKARNI	01FE19BEE075			
	VARSHITA R TORGAL	01FE19BEE077			
12	AMIT MALLIKARJUN MASUTI	01FE19BEE003	Mr. Sachin Angadi	B12	Control techniques for Motion Control Of PMSM Employing MBD Using Matlab-simulink and TI's TMS28069M
	LAXMI BIRADAR	01FE19BEE033			
	BHAGYASHREE G RANJOLKAR	01FE19BEE039			
	SHREYA C DIGGAI	01FE19BEE040			
13	SAGAR SANADI	01FE19BEE093	Mrs. Leah S Joshi	B13	Design and Implementation Of neural Network On FPGA
	DHANUSHKUMAR V BHAT	01FE19BEE100			
	ROHAN S SONNAD	01FE19BEE104			
	SIDDHARTH ASHOK NALATAWAD	01FE19BEE114			
14	NAMRATA SHIVANAND HAVERI	01FE19BEE013	Mrs. Kavita Chachadi	B14	Anti-Theft Vehicle Security System
	NIKHITA BANAPUR	01FE19BEE048			
	PRANATHI A S	01FE19BEE062			
	NEHA R RAIKAR	01FE19BEE079			
15	SHIVANAND GUDAGI	01FE19BEE010	Mr. Altaf Husain	B15	Multiple Output Electrical vehicle Charging Station
	ATAURREHMAN A PALLAN	01FE19BEE035			
	ASHPAK KEMALAPUR	01FE19BEE052			
	KALARI VIJAYAKUMAR	01FE19BEE053			
16	K SAI CHAITRA	01FE19BEE084	Mr. Hanumanthagouda R Patil	B16	GSM Based Underground Cable Fault Distance Locator Using PIC Microcontroller
	PRATIBHA KURAHATTI	01FE19BEE089			
	RASHMI SUNADHOLI	01FE19BEE109			
	SPOORTI SURESH PUJAR	01FE19BEE111			



Sl No.	Name	USN	Guide.	Batch No	Title
17	PAYAL P NIRANJAN	01FE19BEE097	Mr. Hanumanthagouda R Patil	B17	Microcontroller Based Smart Irrigation System
	SAMARTH S TRASAD	01FE20BEE401			
	ABHISHEK A HUTAGI	01FE20BEE402			
	RAMESH N	01FE20BEE403			
18	SANJANA HULAKUND	01FE19BEE016	Mrs. Shweta Koraddi	B18	Estimation Of State of charge of Battery
	PAVITRA ASKI	01FE19BEE025			
	MEGHANA RUDRESH DODAMANI	01FE19BEE026			
	JYOTI SURYAVANSHI	01FE19BEE034			
19	RASHMI KURTAKOTI	01FE19BEE071	Mrs. Shilpa Kamath	B19	Biometric authentication Door Locking System By Using ESP32 Board.
	SHWETHA A U	01FE19BEE085			
	SUSHANTE S NEELAGUND	01FE19BEE091			
	SOUJANYA S SOBARAD	01FE18BEE121			
20	YASHASWINI J PATIL	01FE19BEE021	Mrs. Jayashree Mallidu	B20	PWM Based PMDC Motor Speed Control Using PIC Microcontroller
	ANUSHA A M	01FE19BEE032			
	SHREYA S HARLAPUR	01FE19BEE055			
	MEGHANA C BELLERIMATH	01FE19BEE060			
21	ANAND KOLLAR	01FE19BEE015	Ms. Aditi Kadam	B21	Microcontroller Based metal detecting Robot
	RAHULKUMAR R L	01FE19BEE017			
	AJAYKUMAR RAMU CHAVAN	01FE19BEE028			
	OMKAR LAMBI	01FE19BEE006			
22	KARTHIK GURURAJ NAIK	01FE19BEE101	Ms. Aditi Kadam	B22	Automatic Power factor correction using Microcontroller
	MANJUNATH N BASAVA	01FE19BEE103			
	VEERESH KOUJALAGI	01FE19BEE105			
	SHIVARAJ S HAKARI	01FE19BEE106			
23	SAUMYA S	01FE18BEE063	Mrs. Padmaja Kallimani	B23	PWM Based Speed Control of DC Motor Using Microcontroller
	DOLA LOUIS PAUL	01FE18BEE118			
	AMIT RAJPUT	01FE18BEE015			
	RUKMINI R YARAGUPPI	01FE19BEE113			



SI No.	Name	USN	Guide.	Batch No	Title
24	MUSHRAF M DAFEDAR	01FE19BEE002	Ms. Aishwarya P K	B24	Automatic Water level Monitoring and Pump Control System
	AASIF RAMZAN BHAT	01FE19BEE029			
	SHREEKANTH D CHIGATERI	01FE19BEE042			
	R VISHWAS	01FE19BEE046			
25	SONU KUMAR	01FE19BEE059	Ms. Aishwarya P K	B25	Raspberry Pi Based navigation System for Visually impaired people
	SACHIN ROY	01FE19BEE066			
	VANSHI S ELLUR	01FE19BEE067			
26	NIRUPAM R NAIK	01FE19BEE005	Ms. Radhika Nadiger	B26	Design and Development Of Battery Charging System From Solar PV Panel Using PIC Microcontroller
	ANISHA A BAGEWADI	01FE19BEE009			
	SHWETA	01FE19BEE058			
	SANKET	01FE19BEE102			
27	PRANAV A NAIK	01FE19BEE031	Mrs. Sahana Kalligudd	B27	Single axis Solar Tracking System Using DC Gear Motor
	MAYANK	01FE19BEE056			
	AISHWARYA M HAVALANNAVAR	01FE19BEE063			
	AMRUTH P KAKANTI	01FE19BEE065			
28	SURESH SAVADATTI	01FE19BEE070	Mrs. Sahana Kalligudd	B28	Password Based Circuit Breaker Using ARM7
	SAMEER S MOHAMMADANAVAR	01FE19BEE080			
	SIDDHALINGESH NEERALAGI	01FE20BEE406			
	AJAY ASHOK REVANKAR	01FE20BEE408			
29	AKASH SANJAY SONWALKAR	01FE19BEE045	Ms. Vandana Muratti	B29	Single axis Solar Tracking System Using DC Gear Motor
	POOJA V KOTRANNAVAR	01FE19BEE061			
	NIKITHA N BANAKAR	01FE19BEE064			
	VASUDHA S PAI	01FE19BEE078			


HOD E&E

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Department of Electrical & Electronics Engineering
Odd Semester 2021-22, 7th Semester Senior Design Project Batches and Titles

Sl No.	Name	USN	Guide.	Titles
B1	BASAVARAJESHWARI M DIVATAR	01FE18BEE020	Dr. A B Raju	Model Predictive Control (MPC) for DC – DC Boost Converter
	BHAGYASHREE HARA KUNI	01FE18BEE021		
	Aishwarya Baddi	01FE18BEE008		
	CHANDANA	01FE18BEE351		
B2	RASHMI S SHIDRAMSHETTAR	01FE18BEE089	Dr. S B Karajgi	MPPT Algorithm Analysis on Solar fed Load-Modelling and Simulation
	NANDINI GURRAM	01FE18BEE090		
	C SHRIVAISHNAVI	01FE18BEE091		
	C SAI MAHITA	01FE18BEE099		
B3	VINAY V BHAJANTRI	01FE18BEE079	Dr. S B Karajgi	Analysis and Simulation of the Direct Torque Control of BLDC Motor Using Fuzzy Logic Controller
	KARTIK HULLUR	01FE19BEE405		
	FAZALULREHMAN A BELWADI	01FE19BEE408		
	M BANU PRAKASH REDDY	01FE19BEE411		
B4	MONE CHINMAY LAKSHMAN	01FE18BEE052	Dr. M R Kappali	An Interleaved High-Power Fly-back Inverter for Photovoltaic Applications
	MONISHA MOHAN KENI	01FE18BEE053		
	SACHIN S THOTRE	01FE18BEE060		
	SHAGUFTHA SYEDA	01FE18BEE064		
B5	AMOGH BADAGANDI	01FE18BEE016	Mrs. Rohini B Jyoti	High Gain Dc-Dc Step Up Converter With Multilevel Output Voltage
	C S SUNDARESHAN	01FE18BEE026		
	PRASAD RAGHUVEER NAIK	01FE18BEE057		
	AKSHAY G ARKSALI	01FE17BEE005		
B6	AJAY BAGODI	01FE18BEE010	Mrs. Rohini B Jyoti	Modeling & Simulation of Photovoltaic system connected to grid and battery energy storage using Matlab/Simulink
	SYED ABDUR REHMAN	01FE18BEE074		
	SHRINIVAS R PALANKAR	01FE16BEE091		
B7	NAVEEN PATTAR	01FE18BEE085	Mr. Siddarameshwar H N	Development of Machine Learning-Based Vehicle Safety System
	VAGISH KULKARNI	01FE19BEE403		
	VIJAY SHANKARGOUDA PATIL	01FE19BEE404		



Sl No.	Name	USN	Guide.	Titles
	KARTIK KRISHNA MURTHY CHATE	01FE198EE416		
B8	ROHANKUMAR SHEKHAR HUBBALLI	01FE18BEE097	Mr. Siddarameshwar H N	Electricity Short term Load Forecasting by Deep learning
	ASHISH MANJUNATH BHAT	01FE18BEE098		
	MANIKANTA V PANDIT	01FE18BEE101		
	GURUKIRAN	01FE18BEE115		
B9	BIBI HAJIRA N NADAF	01FE18BEE023	Mrs. Minal Salunke	Modelling and Simulation of Power System Network under Balanced Unbalanced Condition Using Typhoon HIL Software
	BINAYAK CHANDA	01FE18BEE024		
	D INDIRA	01FE18BEE028		
	M U SMIJIL	01FE18BEE043		
B10	SHREYANKA B PATIL	01FE18BEE066	Mrs. Minal Salunke	Application of Machine Learning for Energy Consumption Forecasting
	SHRINIDHI V HEGDE	01FE18BEE067		
	SPOORTHI S BEKAL	01FE18BEE070		
	SUBHAS RAMANNA HOSAMANI	01FE18BEE071		
B11	VAISHNAVI S PADIYAPPANAVAR	01FE18BEE076	Mr. Anoopkumar Patil	Modelling And Implementation of MPPT Based Solar Charge Controller for Low Insolation Conditions
	VRUSHALI M SATAWALEKAR	01FE18BEE083		
	VIBHA ASKI	01FE18BEE088		
	DHANYA DINESH SHANBHAG	01FE18BEE120		
B12	VIKRAM REDDY	01FE18BEE078	Mr. Anoopkumar Patil	PID controller design and tuning using Ziegler Nichols Technique
	VINAYAK A PATIL	01FE18BEE080		
	VISHALAKSHI JANAGOUDA	01FE18BEE081		
	RAJESHWARI NAVALUR	01FE18BEE108		
B13	DARSHAN KOLAVI	01FE18BEE029	Ms. Anupama R Itagi	Energy Management Of DC Micro Grid Using The Hybrid Energy Storage System
	HANAMANTHAGOU D HANSANUR	01FE18BEE031		
	KANTI SIDDESH	01FE18BEE037		
	KRISHNA P PATIL	01FE18BEE041		
B14	AISHWARYA S R	01FE18BEE009	Ms. Anupama R Itagi	Design and Control of a Photovoltaic-Fed Electric Vehicle Charging Station
	HARSHAVARDHANA B	01FE18BEE032		
	MEGHANA D H	01FE18BEE049		



Sl No.	Name	USN	Guide.	Titles
	VINOD H	01FE18BEE355		
B15	SHARAT RAYARADDI	01FE18BEE105	Mr. Kiran R Patil	A Multifunctional Solar PV and Grid Based On-Board Converter for Electric Vehicles
	ADITYA Y PARADESHI	01FE19BEE407		
	HEMANT MALLIKARJUN KAMKAR	01FE19BEE417		
	NAGARAJ M MURGOD	01FE19BEE418		
B16	BASANAGOUDA S PATIL	01FE18BEE084	Mr. Kiran R Patil	Brushless DC Drive For Electrical Vehicle By Using Controller
	AISHWARYA JAMAKHANDI	01FE19BEE406		
	KUNTANARA SHIVAPPA	01FE19BEE419		
	KUSUMA NADUVINAMANI	01FE17BEE037		
B17	ACHALA AYODHYA	01FE18BEE003	Mr. Sachin Angadi	ANN Based Induction Motor Drive Using IFOC
	ADHITHI JOSHI	01FE18BEE004		
	AKHILESH	01FE18BEE011		
	ANUSHA UPADHYAYA	01FE18BEE019		
B18	VIVEKANAND NAIK	01FE18BEE082	Mrs. Leah S Joshi	Multiple input DC-DC Converter topology for Hybrid Energy System
	SACHIN S PATTAR	01FE18BEE103		
	LAKSHMI HULKOTI	01FE19BEE409		
	M KARTIK	01FE19BEE412		
B19	AKSHATA V UNKAL	01FE18BEE012	Mrs. Kavita Chachadi	Design and simulation of Photovoltaic (PV) system with Battery storage using Bidirectional dc-dc converter
	ANUSHA PATIL	01FE18BEE018		
	INDRANI V	01FE18BEE034		
	NAIK NIKITA VISHWANATH	01FE18BEE054		
B20	MANOJKUMAR B VADRI	01FE18BEE047	Mrs. Shilpa Kamath	Power Quality Improvement by Active Shunt Filter with Hysteresis Current Controller
	MARUTI M BHAJANTRI	01FE18BEE048		
	MOHAMMED ILYAS GUTTAL	01FE18BEE051		
	P AKASH	01FE18BEE056		
B21	RIYA SHETTAR	01FE18BEE086	Mr. Hanumanthagouda R Patil	Hybrid Solar and Wind Powered Electric Vehicle Using Sepic Converter
	GOURI KAMABLEKAR	01FE18BEE087		
	SUJATA NAGAPPA NAIKAR	01FE18BEE110		
	RAVITEJ S JAVALAGADDI	01FE18BEE111		

Sl No.	Name	USN	Guide.	Titles
B22	K V SAMPRITA	01FE18BEE036	Ms. Shwetha Koraddi	Analysis of direct torque control of induction motor for Electric Vehicles
	KEERTI S YADGIR	01FE18BEE039		
	LAXMI M BIRADARPATIL	01FE18BEE042		
	SPANDANA VIDYANAND NAYAK	01FE18BEE353		
B23	ABHISHEK BASAVARAJ	01FE18BEE002	Siddarameshwara HN	Power Quality Improvement Strategies for Unified Power Quality Conditioner in an Interconnected Distribution System
	AKSHAY KELAGADE	01FE18BEE013		
	ANIKET PATIL	01FE18BEE017		
	MAHANTESH PRAKASH PATIL	01FE18BEE045		
B24	VIDYASHREE DEVARAJA AVARADI	01FE18BEE077	Ms. Aditi Kadam	Analysis of Transient Stability Of 3 Machine 9 bus system with UPFC
	SAVITRI PATIL	01FE18BEE094		
	ANAGHARANI N KILLED	01FE18BEE096		
	TANUJA BIRADAR	01FE18BEE117		
B25	SIDDARUDH G KEROOR	01FE18BEE092	Mrs. Jayashree Mallidu	Design, implementation, and verification of AMBA AHB protocol using Verilog
	VISHESH BHAVIKATTI	01FE18BEE095		
	RAKESH KHADED	01FE18BEE100		
	SREEJITH S	01FE18BEE102		
B26	AASHISH D KALRA	01FE18BEE001	Mrs. Jayashree Mallidu	Implementation of CAN Protocol using FPGA
	ADITYA G T	01FE18BEE005		
	AISHWARYA A SALUNKE	01FE18BEE006		
	AISHWARYA B KALLANAGOUDAR	01FE18BEE007		
B27	Laxmi Magadum	01FE18BEE407	Ms. Padmaja Kallimani	Modeling & Simulation of DSTATCOM for Power Quality Enhancement in Distribution System
	PRAMOD B KUSAGUR	01FE19BEE413		
	DANESH PATTED	01FE19BEE415		
	BHAVANA R JADHAV	01FE18BEE501		
B28	BILINDA D'SOUZA	01FE19BEE402	Mr. Altaf Husain	Fault analysis in three-phase transmission line using K-NN algorithm
	DARSHAN B N	01FE19BEE410		
	VISHWANATH HONGAL	01FE19BEE414		
	RAVI GUDAGERI	01FE17BEE080		



Sl No.	Name	USN	Guide.	Titles
B29	PALLAVI GULEDAGUDDA	01FE18BEE112	Ms. Alshwarya Kamatagi	Impact of plug in electric vehicle battery Charging on a distribution system
	SHIVANI CHANNAGOUDRA	01FE18BEE113		
	SUVARNA SHETH	01FE18BEE354		
	AKSHAY S	01FE19BEE401		
B30	RAGHUVeer M MAYANNAVAR	01FE18BEE106	Mrs. Radhika Nadiger	Grid connected solar PV system with SEPIC based MPPT
	KARTIKEY B KALAMUDI	01FE18BEE107		
	GANESH RATHOD	01FE18BEE114		
	MANOJ B SALI	01FE19BEE420		
B31	DIPANGSHUMAN CHOUDHURY	01FE18BEE030	Siddarameshwara HN	Comparison of an Artificial Neural Network-based MPPT Model with a P&O MPPT Model
	KOMAL SONI	01FE18BEE040		
	NIKHIL GANACHARI	01FE18BEE055		
	RACHANA B SAJJAN	01FE18BEE059		
B32	SUDEEP S JOGUL	01FE18BEE072	Ms Sahana	A Modified Diode Bridge Rectifier with Improved Power Quality with Capacitive Network
	SUHAS NADAKATTIN	01FE18BEE073		
	VAISHNAVI DHAGE	01FE18BEE075		
	SHWETA KAMAGOND	01FE18BEE109		
B33	CHETAN R KSHEERASAGAR	01FE18BEE027	Mr. Sachin Angadi	Design and Analysis of Feedback Control Loops for Switched Mode Power Converters
	INDRAJITH ANNASABA KESTI	01FE18BEE033		
	KARTHIK DESAI	01FE18BEE038		
	CHINMAY M	01FE18BEE352		
B34	N VIDHEYA KUMAR	01FE17BEE050	Dr. M R Kappali	Modelling and Control of Bidirectional DC-DC Converter Fed PMDC Motor for Electric Vehicles using State-space Averaging Technique
	SARFARAZ AHMED MULLA	01FE17BEE089		
	SHUBHAM VINAYAK RANE	01FE18BEE068		
	SOURABH S KULKARNI	01FE18BEE069		
B35	K S SUJIT	01FE16BEE036	Ms. Radhika Nadiger	Solar powered DC DC buck converter for battery
	ROHIT P	01FE16BEE079		
	SAYED SALMAN S KAZI	01FE16BEE502		
B36	U ROOPASHREE	01FE16BEE105	Mrs. Padmaja Kallimani	Grid Interactive Solar PV-Based Water Pumping Using BLDC Motor Drive
	DHANANJAY JAGATERI	01FE16BEE029		
	BHAVESH PARIHAR	01FE18BEE022		



Sl No.	Name	USN	Guide.	Titles
B37	Akshay Malavade	01FE18BEE3014	Mrs. Leah Joshi	Human body pose estimation and body gestures classification

HOD E&E

**Head of the Department
Electrical & Electronics Engineering
KLE Technological University,
HUBBALLI-31.**



1.3.4 a List of students undertaking field projects

6th Semester Minor Project Team Details 2021-22

Team #	Name	Urn	Mentor	Title
TEAM A1	Sayed Mohammed Kanakmood	01FE19BME052	M B Goravar	Wall painting bot for elevated structures
	Rahul Chivate	01FE19BME053		
	ShrihariKambagi	01FE19BME051		
	Vinay Shirashyad	01FE19BME046		
	KarthikRevankar	01FE19BME195		
	Abhishek Contractor	01FE19BME078		
TEAM A2	GautamKongi	01FE19BME134	M B Goravar	CPM Machine
	Inayathsahab I Yaligar	01FE19BME197		
	Shantaveer P Hiremath	01FE19BME189		
	ShriramGodbole	01FE19BME131		
	SagarKashyap	01FE19BME143		
TEAM A3	Ananya R Sattigeri	01FE19BME036	Shivaprasad M	Retro fitment for Manual Wheelchair.
	Prakhyath S Nayak	01FE19BME038		
	Shakainah P Achary	01FE19BME077		
	Veena N Hubballi	01FE19BME188		
	Harsha Kunnal	01FE19BME040		
TEAM A4	MallikarjunJamadarkhani	01FE19BME045	Shivaprasad M	Thrust Test Bench for Electrical Motors.
	Aditya Deshpande	01FE19BME164		
	VenkateshBarakol	01FE19BME112		
	Basavanagouda P Nandeppagowdar	01FE19BME105		
	Harsha Meti	01FE19BME081		
	Vinutha S	01FE19BME174		
TEAM A5	Akshay V Joshi	01FE19BME028	Shivaprasad M	Water Tank Cleaner
	Kennith V Gokavi	01FE19BME024		
	Kabir Bhattacharya	01FE19BME014		
	SatvikKamat	01FE19BME033		
	Sudhanva M Bidarahalli	01FE19BME037		
	Prateek Sharma	01FE19BME086		
TEAM A6	Akash R Tamate	01FE19BME157	M B Goravar	Tender cocunut water extractor
	Vinay A Kelur	01FE19BME167		



	Mohammed HarmienRafeeq	01FE19BME159		
	Rizwan N Sayyednavar	01FE19BME181		
	Abhishek S Kulkarni	01FE19BME139		
	Henson Max Mascarenhas	01FE19BME166		
TEAM A7	EeshanRajendra Gad	01FE19BME029	M B Goravar	Game with Reward
	Harshitkumar S Hiremath	01FE19BME027		
	PruthivirajChitinites	01FE19BME025		
	RaghwendraMadiwalar	01FE19BME032		
	Md Usman G	01FE19BME030		
TEAM A8	SourabhKalburgi	01FE19BME073	Shivaprasad M	Book collection kiosk
	Siddhanth Muragundi	01FE19BME062		
	Joshua Joseph	01FE19BME068		
	RohitTerdal	01FE19BME186		
	YallappaAvaradi	01FE19BME170		
	VinayakSindagi	01FE19BME162		
TEAM A9	ArpitaBadiger	01FE19BME176	M B Goravar	Incense stick maker using waste flowers
	PavanPujar	01FE19BME104		
	Amruta Bali	01FE19BME160		
	AnirudhKagalkar	01FE19BME155		
	GurulingaswamyHiremath	01FE19BME182		
	Varun Hosmani	01FE19BME178		
TEAM A10	Sai Rahul	01FE20BME435	Shivaprasad M	Onion harvester and processing unit
	Druva Kumar	01FE20BME425		
	PrajwalAppasaheb Desai	01FE20BME433		
	Nikhil Menasinakai	01FE20BME422		
	Basavraja	01FE20BME438		
	Shashank Deshpande	01FE19BME111		
TEAM A11	RohitKinnal	01FE19BME171	M B Goravar	Energy harvester
	Aditya B Gouragond	01FE19BME177		
	Anandgouda N Nagalapur	01FE19BME151		
	JambulaUday	01FE19BME158		
	SachinBasappaMullur	01FE19BME168		
	Adarsh R Angadi	01FE19BME187		
TEAM	Karthik Kulkarni	01FE19BME114	Shivaprasad M	Shirodhara Unit



A12	VishalramPatil	01FE19BME126		
	Puneet B Savalgi	01FE19BME190		
	Vasanthmadhav Kulkarni	01FE19BME163		
	Rahul Nayak	01FE19BME137		
	AbhinandanSamnekar	01FE19BME152		
TEAM A13	Venugopal M.K	01FE19BME175	Shivaprasad M	Jowar/ Sorghum harvesting machine
	Aniket Joshi	01FE19BME172		
	KartikShivappaLangoti	01FE19BME183		
	Abhishek N Badi	01FE19BME180		
	Akash U Arkasali	01FE19BME087		
	ShanthveerSankangoudar	01FE19BME165		
TEAM B1	RanganathMadiwalar	01FE19BME194	Gururaj F and GireeshaChalageri	Recycling of X Ray films to extract silver
	VinayakRaikar	01FE19BME013		
	Vishal S R	01FE19BME012		
	Srinidhi K	01FE19BME011		
	GaganHombardi	01FE19BME108		
	Goutam	01FE19BME110		
TEAM B2	ShreeshShirahatti	01FE19BME026	Gururaj F and GireeshaChalageri	Cotton plucking and ginning machine.
	Venkatesh S K	01FE19BME041		
	Pradeep	01FE19BME039		
	Aravind D	01FE19BME043		
	Daneshwari B Neelagar	01FE19BME061		
	ChittrakshiChougule	01FE19BME219		
TEAM B3	MalateshKesari	01FE19BME156	Gururaj F and GireeshaChalageri	Portable smoke purifier for passive smokers
	Naveen Rakaraddi	01FE19BME141		
	Samee Khan Bhagewadi	01FE19BME135		
	RitishMirje	01FE19BME142		
	ShivanandGuraddi	01FE19BME138		
	Prajwal J Kadagi	01FE19BME145		
TEAM B4	ChandrashekarPattar	01FE19BME072	Gururaj F and GireeshaChalageri	UPI based cash dispensing machine
	Ramesh Battur	01FE19BME093		
	Sharanbasappa	01FE19BME044		
	SathyamRane	01FE19BME001		
	KedarNaik	01FE19BME125		
	DarshanChavan	01FE19BME065		
TEAM B5	PrithvirajJadhav	01FE19BME116	Gururaj F and	Smart Cradle



	Ritika G	01FE19BME080	GireeshaChalageri	
	Terence I	01FE19BME085		
	Siddhant B	01FE19BME005		
	Sanket K	01FE19BME015		
	Vasanth R	01FE19BME128		
TEAM B6	DilawarChapti	01FE19BME107	Gururaj F and GireeshaChalageri	Digital public parking system
	KarthikHagargi	01FE19BME106		
	Abhishek Patil	01FE19BME173		
	Ganesh Betageri	01FE19BME071		
	VinayakHanagal	01FE19BME095		
	Krishna Bajantri	01FE19BME204		
	ShashivarmaKalmani	01FE19BME099		
TEAM B7	Priyanka B R	01FE19BME154	Gururaj F and GireeshaChalageri	Cigarette bud sponge separator for recycling.
	Chidanand S M	01FE19BME161		
	Anup U Hublimath	01FE19BME082		
	Siddhanth S	01FE19BME010		
	Sushanth N	01FE19BME018		
	Sushilkumar M	01FE19BME144		
TEAM B8	Pavan K	01FE19BME196	Gururaj F and GireeshaChalageri	Remote patient health monitoring system.
	Rahul R Gujjar	01FE19BME191		
	Girish Patil	01FE19BME213		
	Prashant Kalyani	01FE19BME140		
	Prateek	01FE19BME179		
	ShrishailTeli	01FE19BME207		
TEAM B9	Prajwal G	01FE19BME109	Gururaj F and GireeshaChalageri	Multipurpose UAV- Quadcaptor convertible to hexacaptor
TEAM B10	Hrishikesh S Kulkarni	01FE18BME235	Gururaj F and GireeshaChalageri	Electric scate board
	Souparni G kulkarni	01FE18BME233		
	Manjunatha . T	01FE19BME034		
	Anudeep	01FE19BME150		
	Doddbasappa	01FE19BME203		
	Vishal k	01FE19BME019		
TEAM C1	Dhanashri U Sobarad	01FE19BME094	Nagaraj Ekabote And Sridhar M	Ornithopter for secret services
	Pradyumna G Bijapur	01FE19BME096		
	RitishHegde	01FE19BME048		
	Abhishek M Chabbi	01FE19BME101		



TEAM C2	Deepak Shirol	01FE19BME070	Nagaraj Ekabote And Sridhar M	Smart Hedge Cutter
	Basanagouda Biradar	01FE19BME067		
	Prajwal H Shastri	01FE19BME066		
	Annapa N A	01FE19BME088		
	Bhanuprakash	01FE19BME103		
	Adarsh Goral	01FE19BME076		
TEAM C3	Mohammad Adnaan	01FE19BME079	Nagaraj Ekabote And Sridhar M	Smart Solar tree
	Javad Khan	01FE19BME022		
	Mahamad Jameer Makandar	01FE19BME149		
	Varun A Desai	01FE19BME100		
TEAM C4	Shreyas Jigajeni	01FE19BME129	Nagaraj Ekabote And Sridhar M	Smart mopping in apartments/Malls
	Umesh MG	01FE19BME130		
	Satyam Sharma	01FE19BME133		
	Aniruddha Shetty	01FE19BME097		
	Karthik Naik	01FE19BME132		
TEAM C5	Samarth Gurav	01FE19BME020	Nagaraj Ekabote And Sridhar M	Prasadam Vending Machine
	Vinay S Kulkarni	01FE19BME049		
	Aditya Revankar	01FE19BME036		
	Danish A K	01FE19BME006		
	Vidushi Bhagat	01FE19BME136		
	Kumar Waddar	01FE19BME056		
TEAM C6	Pavan Garasangi	01FE19BME092	Nagaraj Ekabote And Sridhar M	Driver alert device for night travel
	K Vishnu Teja	01FE19BME117		
	Shrihari N	01FE19BME021		
TEAM C7	Shivashankar A Kempagoudar	01FE19BME057	Nagaraj Ekabote And Sridhar M	Smart Bin for canteens
	Subramanya L Mahale	01FE19BME055		
	Akash Hosmani	01FE18BME012		
	Sachin Vd	01FE19BME059		
	Manjunath G Kamble	01FE19BME060		
TEAM C8	Shrihari Kulkarni	01FE19BME091	Nagaraj Ekabote And Sridhar M	Cultivator mud cleaner
	Anil K N	01FE19BME007		
	Siddu Barker	01FE19BME169		
	Dyamappa Pashupati	01FE19BME102		
	P Bharat	01FE19BME098		
	Abhishek Petkar	01FE19BME023		
TEAM C9	Mruntunjay Hiremath	01FE18BME076	Nagaraj Ekabote And Sridhar M	Plate vending Machine
	Imran Nazi	01FE19BME008		
	Rahul Boratti	01FE18BME097		



	Srihari Khoday	01FE19BME004		
TEAM C10	Shravan Tenginkai	01FE18BME131	Nagaraj Ekabote And Sridhar M	Betelnut (Areca Nut) pesticide sprayer and cutter
	SourabhDayanandMoolya	01FE19BME031		
	Deepa D Onkari	01FE19BME206		
	Amar Jayi	01FE19BME017		
	SultaanAlie D L	01FE19BME002		
	Vishwanath S	01FE19BME009		
		Rahul Ramesh		
TEAM C11	Abhishek Arakeri	01FE19BME064		
	PrateekSungad	01FE19BME016		
	Mohammadmaaz	01FE19BME083		
	ShanawazKusugal	01FE19BME215		
	Vishal Mesta	01FE19BME015		
Team D1	Punithkanth S	01FE19BME089	Vinay S Tigadi	TARCK - Wireless charging lane for EV
	Hashimsab Alias RiyanKazi	01FE19BME148		
	Rohan G	01FE19BME146		
	Rakshit A Shetty	01FE19BME122		
	NaikEknath Girish	01FE19BME127		
Team D2	Suprit S Betageri	01FE20BME408	Vinay S Tigadi	Spherical Sweet making machine
	Faraaz Mohammed F Reshmi	01FE19BME198		
	Abhishek VenkateshKamatar	01FE20BME430		
	Sudeep P Aralikatti	01FE20BME431		
	Shivaraj N Shelennavar	01FE19BME210		
	BasavarajGurappanavar	01FE19BME202		
Team D3	VikasUmarani	01FE19BME113	Vinay S Tigadi	Organic and Inorgan waste segregator
	ManojBagewadi	01FE19BME124		
	BasavarajTogari	01FE19BME123		
	VijaykumarBasavarajNatikar	01FE19BME216		
	Pranav Rajeev Ramachandra Shet	01FE20BME418		
	Mohammedsohail S Sayed	01FE20BME417		
	Harsh ShivanandAngadi	01FE20BME420		
Team D4	Manu A Jatti	01FE20BME414	DrArunPatil	Fruit rotting Detectic machine
	ShreyasKudari	01FE20BME426		
	VimalkumarBogar	01FE20BME434		
	ShakirFayaz Mir	01FE19BME075		
	Sumant S Manshettar	01FE20BME437		
	Pranesh M Dharwad	01FE20BME427		



Team D5	NeeravSujeet Shah	01FE20BME413	DrArunPatil	Gold Purity Detectic Machine
	Vitthal Pol	01FE20BME423		
	Aditya Kalakutagi	01FE20BME432		
	SiddharthGurunathGhodke	01FE20BME419		
Team D6	Abhijit Chavan	01FE20BME429	Vinay S Tigadi	360 Wind mill energ
	Prajwal S Kariyappanavar	01FE20BME404		
	Prajwal M Chavan	01FE20BME405		
	Ganesh Kumbhar	01FE19BME058		
	Sameer Kulkarni	01FE20BME402		
	Sanju M Billur	01FE19BME220		
Team D7	PrabhudevKamatagi	01FE20BME407	DrArunPatil	Ground Nut Shell Removing machine
	Hemanth L Dalawai	01FE19BME209		
	VaibhavPawar	01FE20BME401		
	Hemanth D	01FE20BME410		
	Kulkarni Ramchandra Srinivas	01FE20BME403		
	Chetangouda M Patil	01FE19BME199		
	Shrishail B Kittur	01FE18BME501		
Team D8	Vinay Magi	01FE20BME411	DrArunPatil	Sunflower seed and c extraction
	SohanSurendraKatwa	01FE20BME406		
	Samarth Dodamani	01FE20BME415		
	AdarshParashetti	01FE19BME212		
	Shreyash S Ginimav	01FE20BME412		
	AkashgoudaHalemani	01FE19BME201		
Team D9	Raman R Kalbandi	01FE17BME149	Vinay S Tigadi	Tender Coconut vend machine
	Abhishek PandharinathKoparde	01FE20BME424		
	Aakash V Alagawadi	01FE20BME428		
	Varad N Barge	01FE19BME069		
	RaghavendraKeriyaNaik	01FE19BME074		
	RohitNaganur	01FE19BME214		
	Praveen Kokatanur	01FE20BME436		

School of Civil Engineering
CAPSTONE PROJECT 2021-22

Team No.	Roll No.	SRN	Name	Guide	Title
21	106	01FE18BCV008	Aniket Ghodke	Prof. Roopa A K	Surface Crack Detection Using Cement Based Nano composites
	108	01FE18BCV010	Ankit Ullegaddi		
	109	01FE18BCV012	Ashish Kabade		
	115	01FE18BCV019	Deepa Allanavar		
	116	01FE18BCV018	G B Shwetha		
19	182	01FE18BCV011	Arun G S	Prof. Naveen Chikkaveerayyanavar	Comparative Study on Aluminum Shuttering And Conventional Shuttering
	119	01FE18BCV022	Gouri Hiremath		
	123	01FE18BCV028	Keertan R		
	138	01FE18BCV064	Supriya Bhat		
	183	01FE18BCV045	Arvind P K		
26	102	01FE18BCV002	Aditi R Patil	Prof.Prema Malali	Flood Analysis of Bennihalla By Using HEC-RAS
	104	01FE18BCV004	Akshata		
	249	01FE19BCV409	Parasaraddi.T.A		
	146	01FE18BCV075	Prateek Ginimav		
30	136	01FE18BCV061	Shruti R	Prof.Basanagouda Patil	Earthquake Vibration Control Using Friction Dampers System In Building Structures
	137	01FE18BCV063	Sneha G Kurdekar		
	218	01FE18BCV089	Abhishek C Negalur		
	242	01FE19BCV401	Abhay Bewoor		
29	131	01FE18BCV050	Rakshitha P Naik	Prof.Darshan G R	Effective Management of Risk Factors Affecting Green Building Construction and Comparison With Conventional Building Construction
	156	01FE18BCV351	Arun Basavraj Alur		
	265	01FE19BCV425	Anant Ratan		
	246	01FE19BCV406	Ajay Kabadl		
	187	01FE17BCV023	Abhishek Choudhary		
22	282	01FE18BCV118	Ruchil Jain	Prof. Dr. SS Quadri	Landfill Siting and Determination of Materials for Liner and Cover
	231	01FE18BCV106	Pradeep Mantur		
	225	01FE18BCV099	Roshan Chavan		
	239	01FE18BCV116	Vijay Gokak		
16	117	01FE18BCV020	G T Vaishnavi Sri Jasminebanu S Tased	Dr. M R Patil	Treatment of Sewage Water Using Anaerobic Bacteria Present in Cow Dung
	121	01FE18BCV026	Kiran Shejawadkar		
	125	01FE18BCV031	M Abhishek S N		
	126	01FE18BCV033			
24	110	01FE18BCV013	Ayesha Banu	Dr.Shashibhushan Biliangadi	Mechanized Toilet Cleaning Machine
	111	01FE18BCV014	Ayesha R. M .		
	114	01FE18BCV017	Chetana P. P.		
	141	01FE18BCV068	Veena R.		
	260	01FE19BCV420	Sagar Pawar		

31	247	01FE19BCV407	Shivakumar N Y	Dr. Anand Hunashyal	Ready to Lay: Precast Pothole Filler Material
	248	01FE19BCV408	Prasanna K		
	258	01FE19BCV418	Naveen H		
	262	01FE19BCV422	Suresh R B		
	269	01FE19BCV429	Kishorekumar K		
15	127	01FE18BCV035	Manu Hiremath	Prof. Chaitanya Akkanavar	Behavior of RC Square Short Column Under Different Fire Condition.
	148	01FE18BCV090	Shivaprasad N Badiger		
	155	01FE18BCV117	Manisha Toshikhani		
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	233	01FE18BCV109	Basavaraj Kottargi		
	236	01FE18BCV112	Amrut R Puthani		
25	128	01FE18BCV044	Prathiksha Wadiyar	Asst.Prof.Naveen Chikkaveerayyanavar	Effect of Alkaline Solutions on the Mechanical Properties of GGBS-Red Mud Based Geopolymer Concrete
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27	103	01FE18BCV003	Akash Rathod	Prof. Vinayak Naikar	Deterministic and Probabilistic Analysis of Non Overflow Section of Gravity Dam
	107	01FE18BCV009	Aniketh Kumar		
	142	01FE18BCV069	Vilas Desai		
	266	01FE19BCV426	Syed Ibrahim		
	285	01FE18BCV429	Shivkumar Kambar		
28	219	01FE18BCV091	Megha Lokare	Mrs. Nagalakshmi Kulkarni	Development of Composting Technology Using Locally Generated Organic Waste in Vivekananda Ramakrishna Ashram, Panchavati, Tadas.
	213	01FE18BCV083	Hruthik Patil		
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	281	01FE18BCV072	Vrushabh Rotti		
14	222	01FE18BCV095	Sumit Kokatanur	Prof. Gurunath Kampli	Sensor Placement Optimization in Concrete Slabs Using Actual Temperature Data, Optimization Algorithm And FE Analysis.
	221	01FE18BCV094	T S Basavaraj		
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	283	01FE18BCV120	Sohan K		
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	140	01FE18BCV102	Vaishnavi H		
	147	01FE18BCV103	Hruturaj J		

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	214	01FE18BCV084	Amit G Rawal		
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	230	01FE18BCV105	Lankesh P Koujalagi		
23	202	01FE18BCV040	Nutan Sankpal	Prof. Anand M Hunashyal	Feasibility Study on Installation, Working, and Checking of Structural Health Monitoring
	203	01FE18BCV042	Prateek D Patil		
	204	01FE18BCV043	Prateek S Guddad		
	208	01FE18BCV060	Shridhar Mundargi		


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Design Project 2021-2022

SRN	Name	Title	Guide
01FE18BCV058	Shivarajagoud Patil	Study on Sensing Ability of Steel and Copper for Structural Health Monitoring	Dr.Anand M Hunashyal
01FE18BCV043	Prateek S Guddad		
01FE18BCV040	Nutan Sankpal		
01FE19BCV406	Ajay Kabadi		
01FE17BCV023	D Abhishek Choudhary		
01FE18BCV003	Akash Rathod	Sugarcane Bagasse Ash As A Partial Replacement Of Cement Concrete	Prof. Vijaykumar S K
01FE18BCV067	Vaishnavi Hiremath		
01FE18BCV057	Shivaraj Navarangi		
01FE18BCV059	Shreyas		
01FE18BCV073	Arvind M Patilkulkarni		
01FE18BCV038	Nagaraj B Nayak	Performance of Concrete Mix when Coarse Aggregate Replaced by Waste Plastic Material	Prof. Vijaykumar S K
01FE18BCV109	Basavaraj S Kottargi		
01FE18BCV112	Amrut R Puthani		
01FE18BCV032	Krishana M Nayak		
01FE18BCV036	Md Huzaifa Hullur		
01FE19BCV414	Tammanna Madanamatti	Analysis of Siltation Properties In a Reservoir	Prof. V.N Naikar
01FE19BCV430	K Vishal		
01FE19BCV403	Ainapure Ajinkya		
01FE19BCV428	Ramesh Chalawadi		
01FE19BCV421	Sayed Sufiyan Betageri		
01FE18BCV016	Chetan Managooli	Seismic Analysis of Bionic Structures	Prof. Bapugouda Biradar
01FE18BCV027	Jay Shrikant Kotyal		
01FE19BCV411	Mahantesh Kalwad		
01FE18BCV009	Aniket Kumar		
01FE18BCV021	Gagandeep B		
01FE18BCV063	Sneha Kurdekar	Seismic Analysis Of Bio-Inspired Column Structure	Prof. Basanagouda Patil
01FE18BCV061	Shruti		
01FE18BCV031	Kiran Shejawadkar		
01FE19BCV415	Chetan Hospeti		
01FE18BCV035	Manu Hiremath		
01FE18BCV098	Karthikay Santaba	Computation of Load Carrying Capacity of Column at Elevated Temperature Using Stress Block Parameters	Prof. Chaitanya Akkannavar
01FE18BCV090	Shivaprasad N Badiger		
01FE16BCV107	Tadu Hanya		
01FE18BCV062	Sidram K B	Behaviour of Reinforced Concrete Column at Elevated Temperature	Prof. Chaitanya Akkannavar
01FE19BCV416	Shreedevi Vaddodagi		
01FE19BCV424	Aishwarya Yadav		
01FE18BCV066	Vaibhav M Sannakki		
01FE17BCV043	Manish Kulkarni		
01FE18BCV012	Ashish K	Iot Based Structural Health Monitoring	Prof. Roopa K
01FE18BCV019	G B Shwetha		
01FE18BCV008	Aniket G		
01FE18BCV018	Deepa A		
01FE18BCV010	Ankit Ullegaddi	Structural Health Monitoring Based on Nano Composite	Prof. Roopa K
01FE18BCV004	Akshata		
01FE18BCV006	Amoghvarsh Patil		
01FE18BCV075	Prateek Ginimav		

01FE18BCV084	Amit G Rawal	Effect of Varying Molarity of NaOH on GGBS and Fly Ash Based Geopolymer Concrete	Dr. M.V.Chitawadagi
01FE18BCV103	Gururaj Anandashetti		
01FE18BCV089	Abhishek Negalur		
01FE18BCV072	Vrushabh		
01FE18BCV113	Kavya T Kamble	Effect of Red Mud on Performance of GGBS Based Geopolymer	Dr. M.V.Chitawadagi
01FE18BCV117	Manisha M Toshikhani		
01FE18BCV071	Vishwanath Reddy		
01FE18BCV070	Vishwa Patil		
01FE18BCV101	Poornima.P.Hugar	Design And Analysis Of Reinforced Earth Wall Subjected To Earthquake Loading	Dr.S.S. Quadri
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01FE19BCV425	Anant Ratan		
01FE19BCV404	Akash.N.S		
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01FE19BCV410	Bhagyashree H		
01FE18BCV076	Rajeshwari S		
01FE18BCV015	Chandrshekar B		
01FE18BCV002	Aditi Patil	E-Waste Management System In KLE Institutes of Hubli-Dharwad	Dr.M.R Patil
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01FE18BCV023	Hrishikesh Shetkhar		
01FE19BCV426	Syed Ibrahim		
01FE18BCV429	Shiva Kumar		
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01FE19BCV417	Harish T		
01FE19BCV427	Sanjana T S		
01FE18BCV029	Keerthi M		
01FE18BCV093	Srireshma. A	Risk Analysis and Its Management in Building Construction in Hubballi	Prof. Vittal Jadhav
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01FE18BCV053	Samarth Shyadaguppi		
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01FE18BCV097	Kartik S A		
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01FE18BCV085	Sahana Patil	Barriers to Sustainable Procurement In North Karnataka's Construction Industry	Gurunath Kampli
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01FE19BCV405	Ashish BV		
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01FE18BCV100	Malatesh I Balami		
01FE19BCV409	Parasaraddi T.		
01FE19BCV419	Eranna Tukaramkunigeri		
01FE18BCV108	Adarsha Shiragur	Flood Prediction using GIS and HEC-RAS	Prof. Prema Malali
01FE18BCV354	Spurti Chimmalagi		
01FE19BCV401	Abhay Bewoor		
01FE19BCV077	Tejas B Shettar		
01FE18BCV111	Deepa	Application of GIS	Prof. Prema Malali
01FE18BCV110	Deepa Rathod		
01FE19BCV423	Pavankumar D R		
01FE19BCV420	Sagar		

01FE18BCV064	Supriya Bhat	Laboratory Evaluation Of Pyrolysis Oil-Based Bio-asphalt as an Alternative Binder for Hot Mix Asphalt.	Prof. Khalida Muntasher
01FE18BCV022	Gouri Hiremath		
01FE18BCV028	Keertan R		
01FE18BCV011	Arun G S		
01FE18BCV020	G T Vaishnavi Sri	Effects of Rejuvenator on Performance Based Properties of Rejuvenated Asphalt Mixtures	Prof. Khalida Muntasher
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01FE18BCV044	Prathiksha Wadiyar		
01FE18BCV033	M Abhishek S N		
01FE19BCV412	Sanjeev Madiwalar	Stabilization Of Black Cotton Soil And Shale Soil (Clay Soil) By Using Nano Ground Granulated Blast Furnace Slag (GGBS) And Nano Clay	Prof. Shivaraj Halyal
01FE18BCV064	Susmita Huggi		
01FE19BCV422	Suresh Bandiwaddar		
01FE18BCV421	Parvezaalam Dharwad		
01FE18BCV060	Shridhar Mundargi	Structural on Artificial Corrosion of Steel Bar for Structural Health Monitoring Application	Dr.Anand M Hunashyal
01FE18BCV042	Prateek D Patil		
01FE18BCV099	Roshan Prakash Chavan		
01FE18BCV051	Rohit V Hosamani		
01FE18BCV102	Vinayalaxmi. S	Rutting Prediction Model for Bituminous Concrete	Prof. Shivaraj Halyal
01FE19BCV413	Yashkumar. P		
01FE19BCV402	Prasad. H		
01FE18BCV428	Vishal.M .P		
01FE19BCV418	Naveen M H	Stability of Black Cotton Soil Using Terrasil And Zycobond	Prof. Shivaraj Halyal
01FE19BCV408	Prasanna M K		
01FE19BCV407	Shivakumar		
01FE19BCV429	Kishore Kumar		
01FE18BCV050	Rakshitha P Naik	A Study on Quantification of Labour Productivity Using Work Sampling Method And Craftsmen Questionnaire Survey	Prof. Shashwath M Nanjannavar
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01FE18BCV096	Lingraj J Bandiwad		
01FE18BCV353	Manu R Handral		
01FE18BCV088	Zaheen Kittur	Barriers to BIM Implementation a Comparative Study Between Public and Private sector in Indian Scenario	Prof. Shashwath M Nanjannavar
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01FE18BCV048	Rahul S Chougala		
01FE18BCV052	Rutik Halimani		
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01FE18BCV068	Veena R		
01FE18BCV079	Hraturaj J		
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01FE18BCV083	Hruthik Patil		
01FE18BCV086	Prashant Kali		
01FE18BCV352	Chinmay Pattanshetty		


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NAAC criteria 2.3.1 Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences

Semester	Course	Code	Pedagogy practiced
IV	Concrete Technology	15ECVC205	Experiential Learning
III	Mechanics of Materials	15ECVF202	Contextual Learning
V	Design of RCC structures	15ECVC303	Case based Learning
V	Construction management workshop	19ECVP301	Hybrid PBL
VII	Solid waste management	15ECVE407	Drama based Learning


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A Senior Design Project Report on

“Design and Optimisation of portable laptop table”

**Bachelor of Engineering in
Mechanical Engineering**

Submitted by

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Under the Guidance of

Prof. Suresh HK



School of Mechanical Engineering

K.L.E Technological University,

Vidyanagar, Hubballi 580031

2021-2022

CERTIFICATE

This is to certify that Senior Design Project entitled “**Design and Optimisation of portable laptop table**” submitted by Team M02 to the KLE Technological University, Hubli-580031, towards partial fulfilment for the award of the degree of Bachelor of Engineering is a bona-fide record of work carried out by him/her under our supervision. The contents of the project report, in full or in parts, have not been submitted to any other institute or university for award of any degree or diploma.

Prof. Suresh HK

Guide

Dr. B. B. Kotturshettar

HOD

ABSTRACT

Students are among the most common users of laptop devices. With the variety of activities done by students using their laptops, many issues are faced because the physical interaction between user and laptop is not well designed. This research aims to produce a laptop desk design for students. The Laptop tables are not ergonomically designed and are leading to eye sight disorders, fatigue, postural defects, backaches, etc. Several IT professionals, industrial workers etc. suffer from eye strain, headaches etc. due to longer sitting hours.

ACKNOWLEDGEMENT

We would like to express our deepest gratitude to the following people for guiding us through this course and without whom this project and the results achieved from it would not have reached completion.

Prof. Suresh HK, Assistant Professor, Department of Mechanical Engineering, for helping us and guiding us in the course of this project. Without his guidance, we would not have been able to successfully complete this project. His patience and genial attitude is and always will be a source of inspiration to us.

Dr. BB KotturShetter, the Head of the Department, Department of Mechanical Engineering, for allowing us to avail the facilities at the department.

We are also thankful to the faculty and staff members of the Department of Mechanical Engineering, our individual parents and our friends for their constant support and help.

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CHAPTER 1

INTRODUCTION

One of the causes of the various types of complaints above is the use of a laptop desk that is unsuitably ergonomic. This is because there are many laptop desks in the market that give little attention to support functions and other parameters such as material, resistance, ability to absorb heat.

Additional functions that need to be considered are the need for appropriate storage of the laptop and accessories, sturdiness of the table legs, and adjustability for different laptops with regard to neck posture. This project is about designing and fabricating “Multipurpose Portable Desk” to help people easily bring anywhere. This project involves the process of designing the table by considering some factors such as shape and ergonomics for people to use. After the design is complete, it was transformed to a real product where the design is used as a guideline.

Project scheduling (Gantt chart) for 7th semester



CHAPTER 2 LITERATURE SURVEY

1) Portable Table Attachment:

• Volume: 07 Issue: 08 | Aug 2020

Students, Department of Mechanical Engineering, Madhav Institute of Technology and Science, Gwalior, Madhya Pradesh, India

• The objective of this paper is achieved by a portable attachment that can be clamped Adjustable to any existing table and given a three dimensional motion according to the requirement of the working individual.

• The material of the rectangular bar is aluminium. The special joint is made of steel spring and plastic.

• Kinematic Analysis of All motions.



2) Ergonomically Design of Multipurpose Portable Wooden Table

Volume 6 Issue 1, January 2017

D. R. Thawkar Professor, B. C. Y. R. C. Umrer College of Engineering, Umrer.

- The objective of this paper is to design a single universal table for fulfilling multiple purposes in a single product.
- Materials used are Wood, brass and mild steel.
- This proposes a FEA design of a universal table and try to check its sustainability in all respects like,
 - max deflection, maximum strain induced and max stress induced in the table material i.e. wood.
- Four mechanisms are used in the manufacturing process :-
 - 1) Sliding mechanism
 - 2) Locking with spring return mechanism
 - 3) Spring return mechanism
 - 4) Arm mechanism



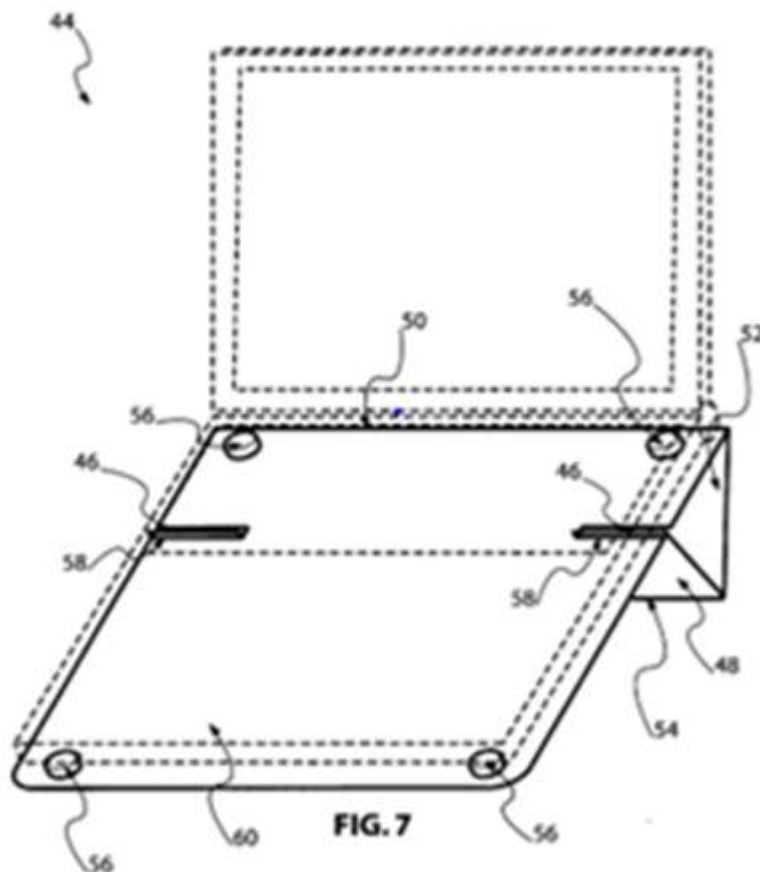
3) Portable laptop table

Inventor : Sang Kwon Kim

Pub no: US 2009/0159763 A1 US 20090159763A1

Pub. Date: Jun. 25, 2009

- The portable laptop stand of the present invention is formed by coupling the tab structure of the first attachment means into the receiving slits of the second attachment means whereby creating a triangular-like base.



4) Folding Table

- Japan published a patent on sep, 11, 1990 in the United state patent.
- According to his design the table can be folded when not in use. The table can be used in a horizontal and slightly tilted state.
- On each side there is a lock mechanism to lock the legs present within the housing .Locking mechanism contains first member, second member and locking disc is also present in the mechanism. First and second member can be easily lock which prevent any kind of shaking of the table



CHAPTER 3

Scope of work/Problem Definition

Problem statement:

The present day styled fixed desks are uncomfortable and are taking a heavy toll on body and mental health. The tables are not ergonomically designed and are leading to eye sight disorders, fatigue, postural defects, backaches, etc. Several users suffer from eye strain, headaches etc. due to longer sitting hours.

So the requirement is to redesign the laptop table ergonomically and optimise the materials used , considering cost effectiveness in the meantime.

Objectives:

- Light weight
- Using wood for long durability
- Extra work space
- Ventilation
- Foldable
- Wrapping sharp edges with rubber
- Using temperature sustainable materials

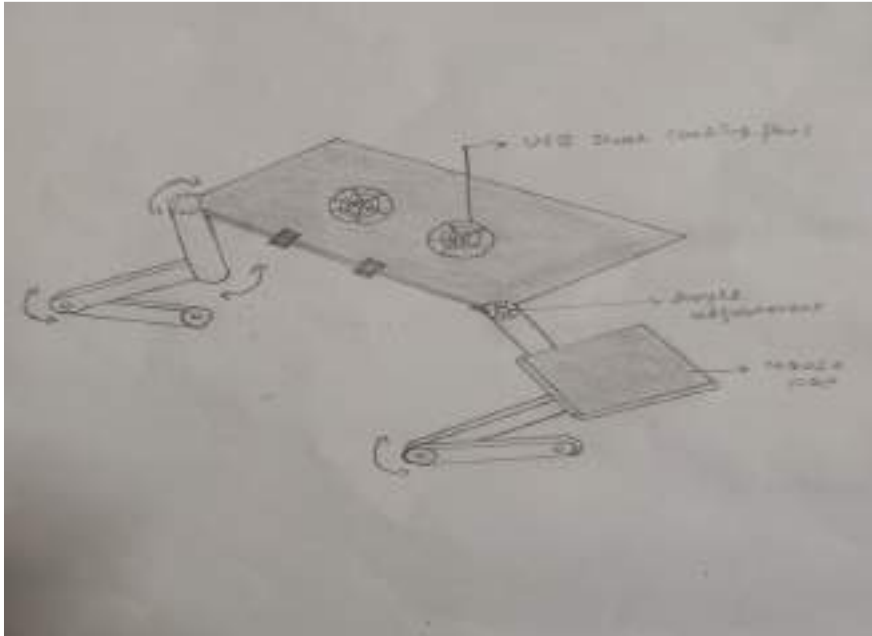
Scope of design:

- The table should be adjustable in height so all the users can adjust it to their most comfortable position since not all of them are the same height.
- The laptop has to be situated at the eye level, a bit tilted to avoid glare for the user and at the right distance.
- The table should have the space to keep their required things (book, water bottle, space for using mouse, etc.)

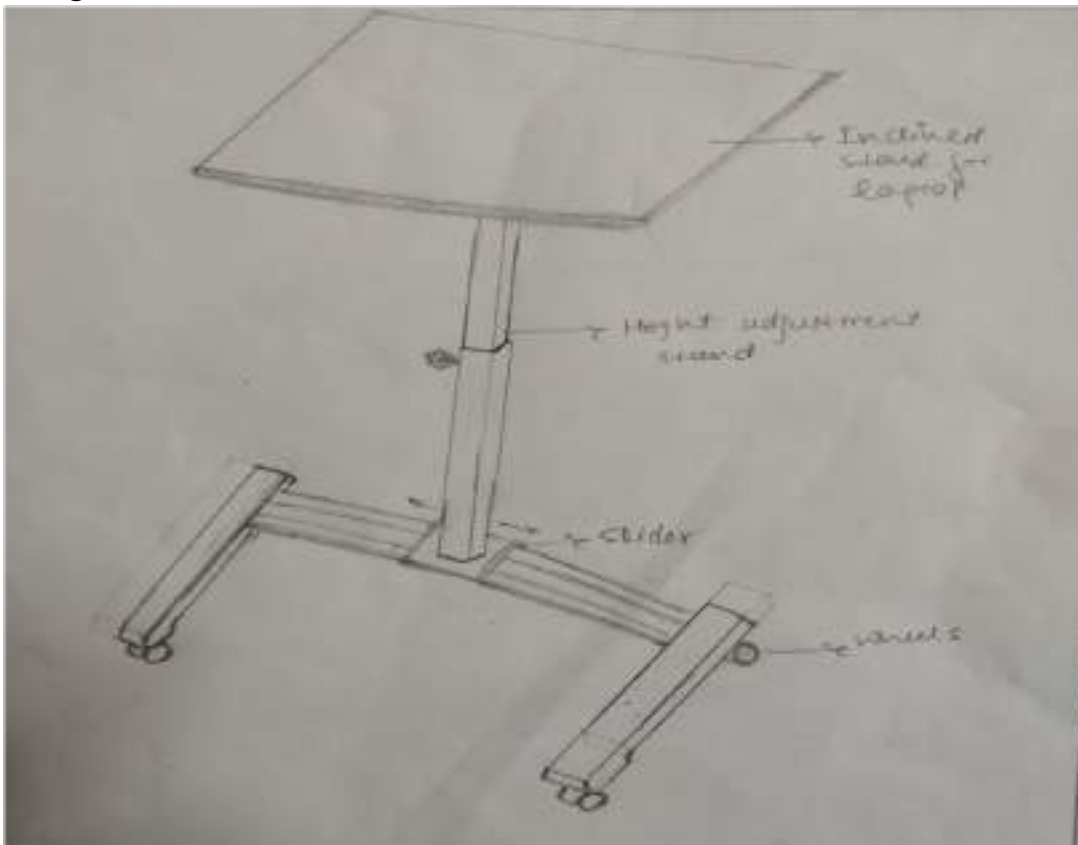
The table should be portable.

Alternative Designs:

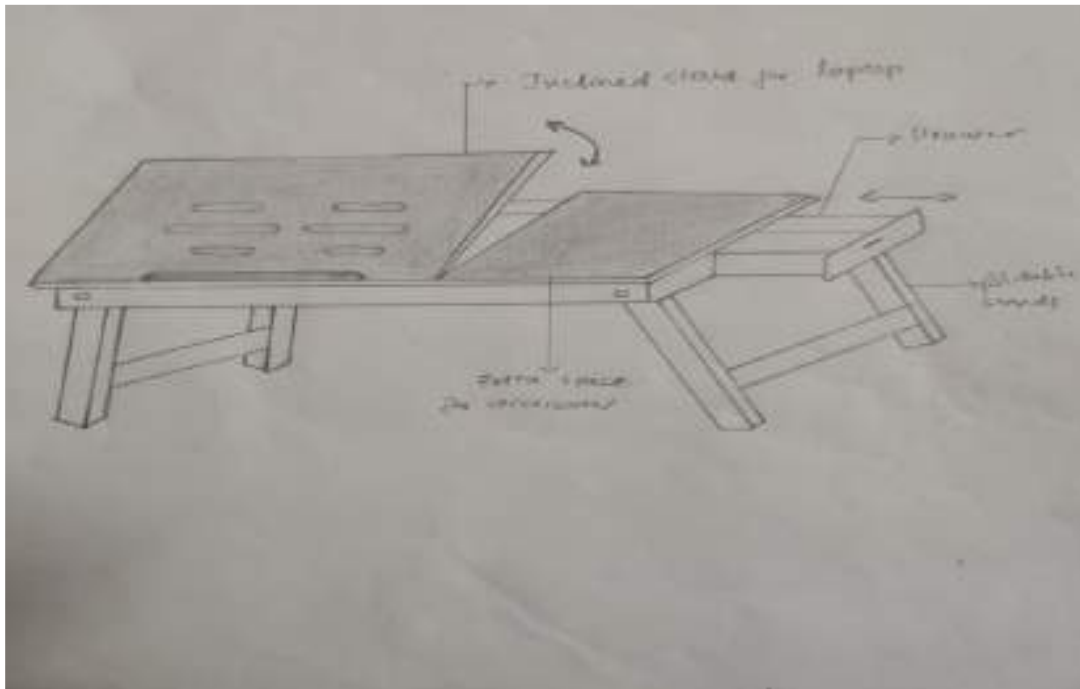
Design 1:



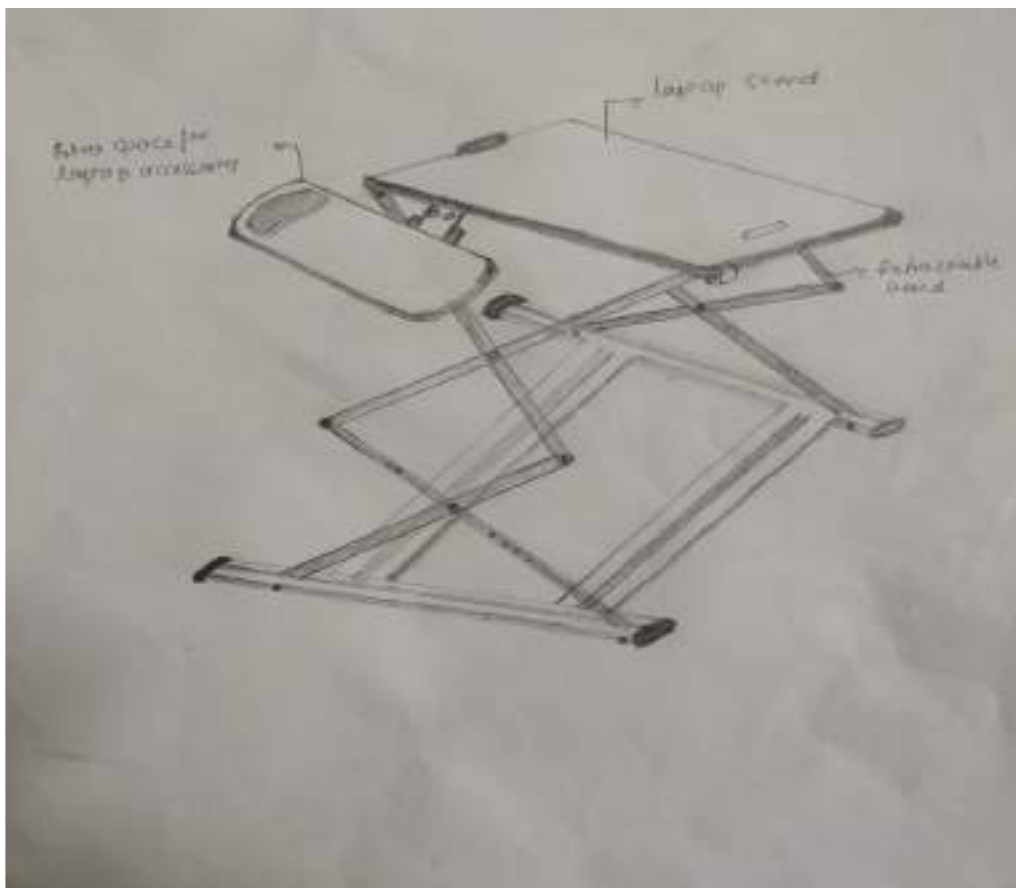
Design 2:



Design 3:



Design 4:



N-A-B-C Napkin pitch:

N-A-B-C Napkin pitch:

Need: <ul style="list-style-type: none"> •Appearance •Portable •Ventilation •User friendly •Resistivity 	Approach: Thorough knowledge of different materials, joints, ventilation With the help of guide's, carpenters and design engineer.
Benefit: We can reduce eye sight disorders, fatigue stress, postural defects, backaches etc.	Competition: <ul style="list-style-type: none"> •Low cost •Light weight •Ventilation •Large Work space

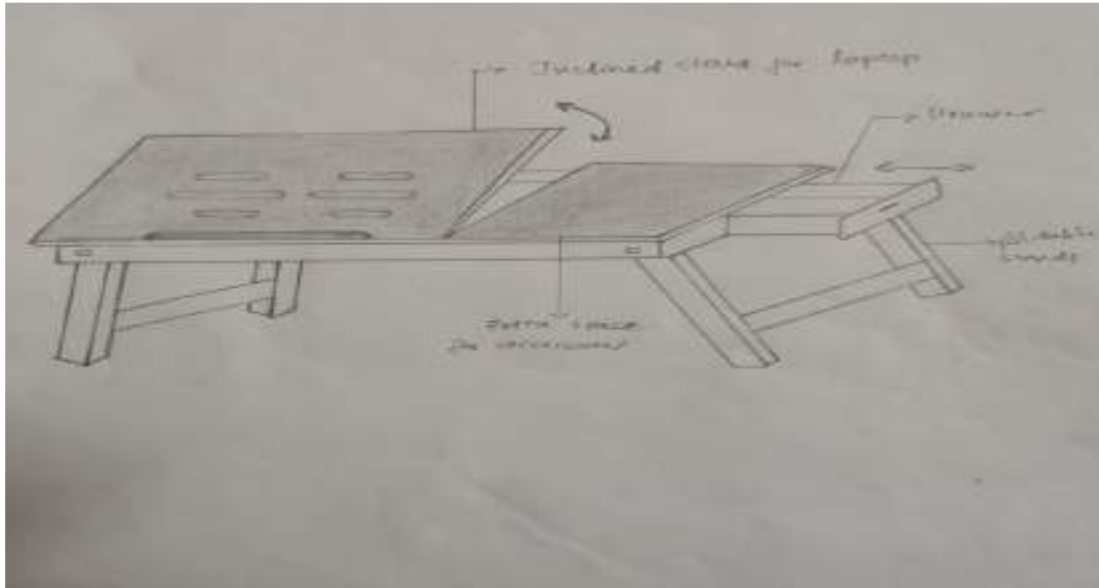
Pugh chart:

Pugh Chart:

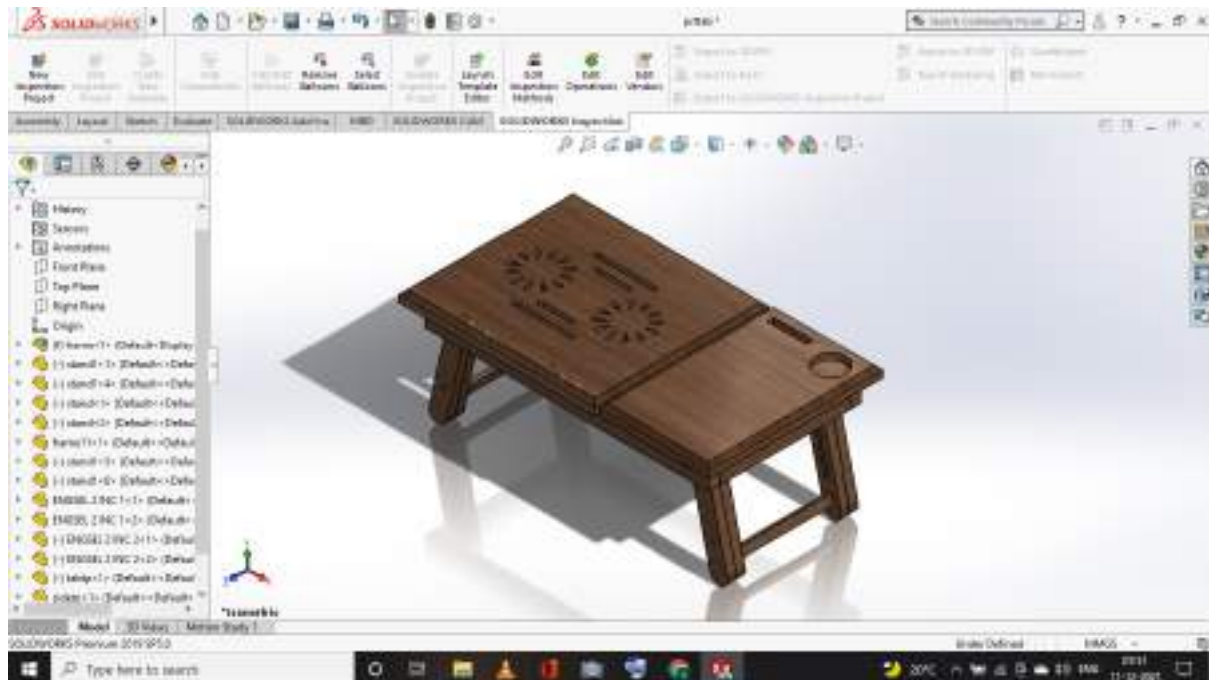
Requirements	weight age	Design 1	Design 2	Design 3	Design 4
Safety	5	0	+	+	0
Portable	5	+	-	+	+
Light weight	5	+	0	0	+
Cost	5	0	0	+	-
Durable	5	+	+	+	-
User friendly	5	-	0	+	-
Work space	4	0	+	+	0
Ventilation	4	+	-	0	-
Appearance	3	+	0	+	-
Resistivity	3	+	-	-	-
Foldable	3	+	-	+	+
Construction	3	0	+	+	0
Maintenance	2	-	-	+	-
Total		21	0	37	-14
Yes/No	-	Yes	No	Yes	No

Selected Design:

Design 3:



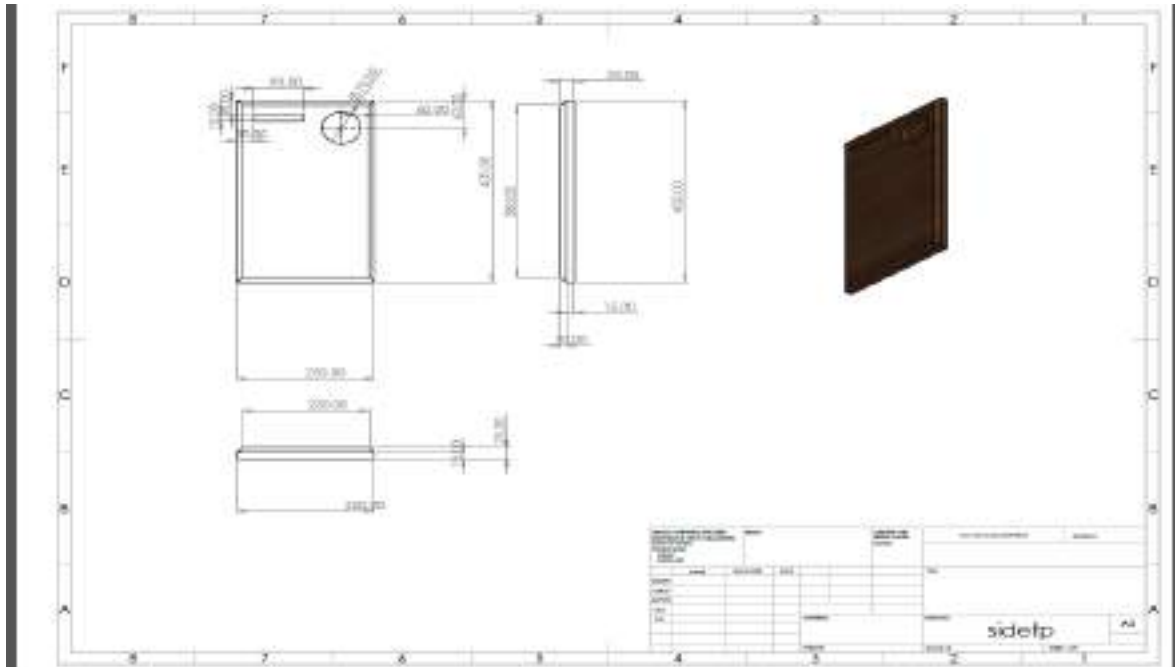
Optimised design:

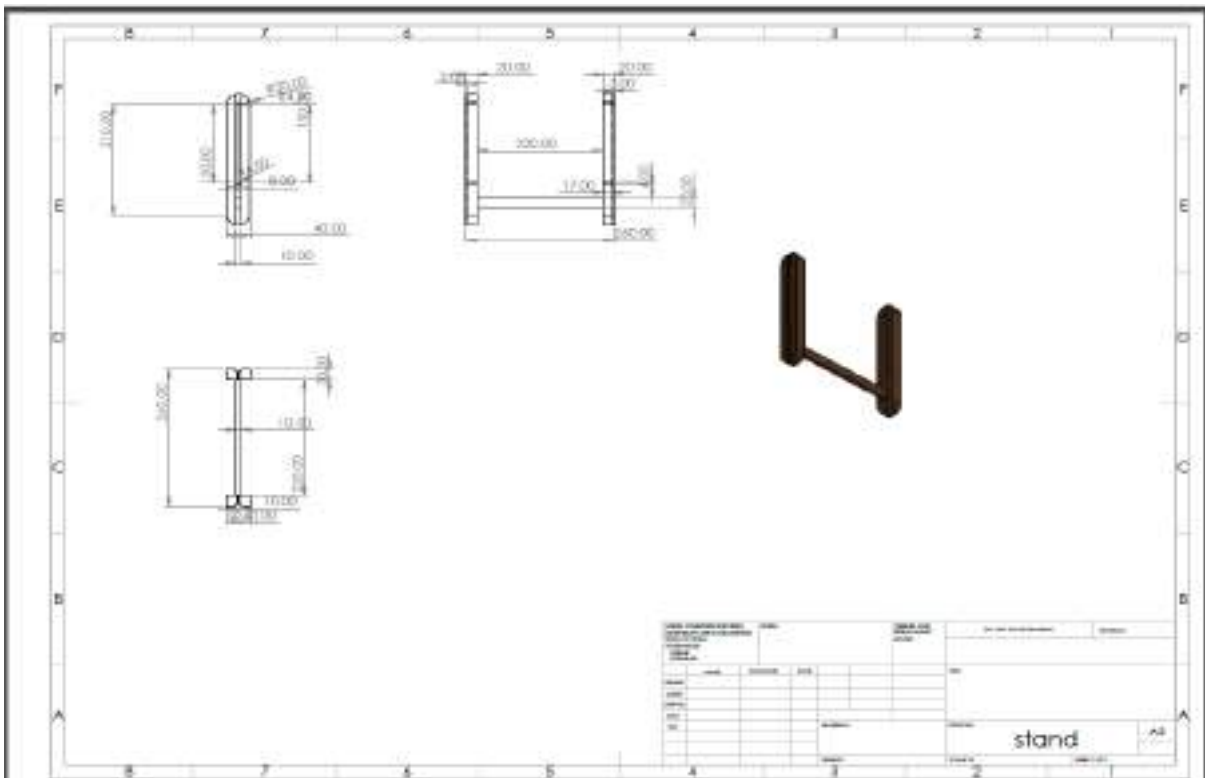
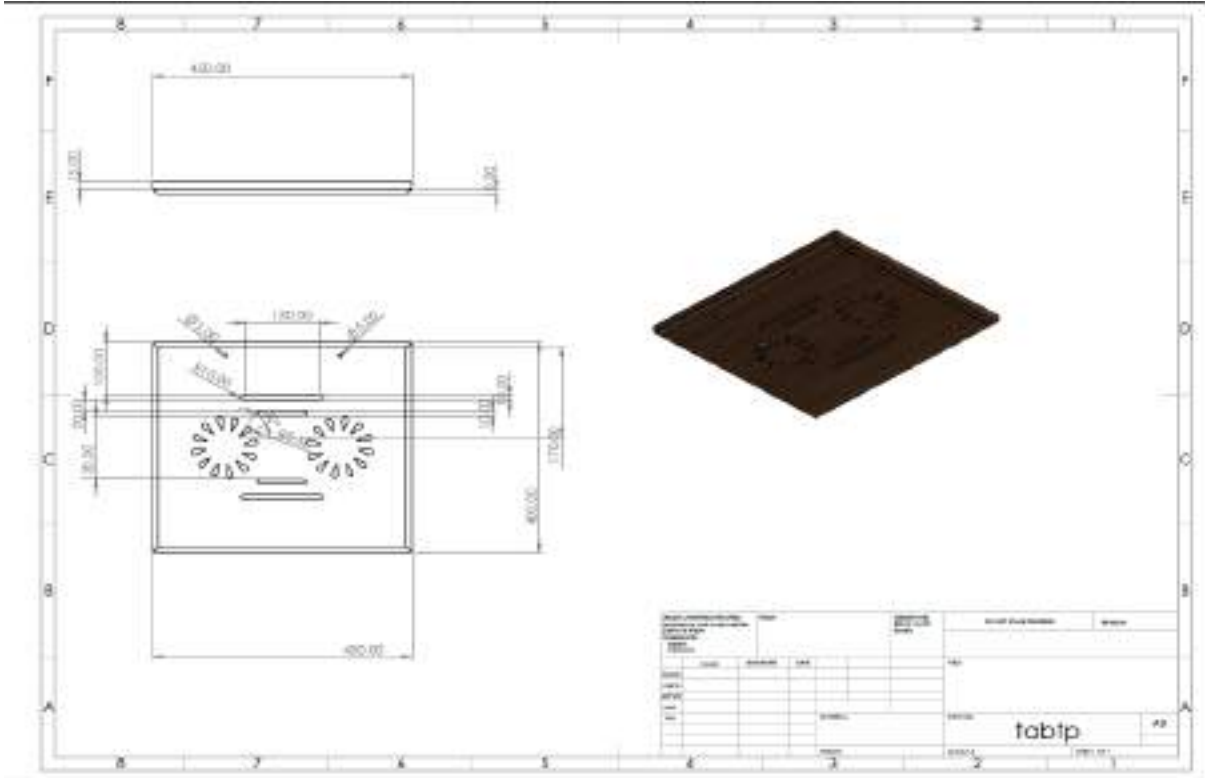


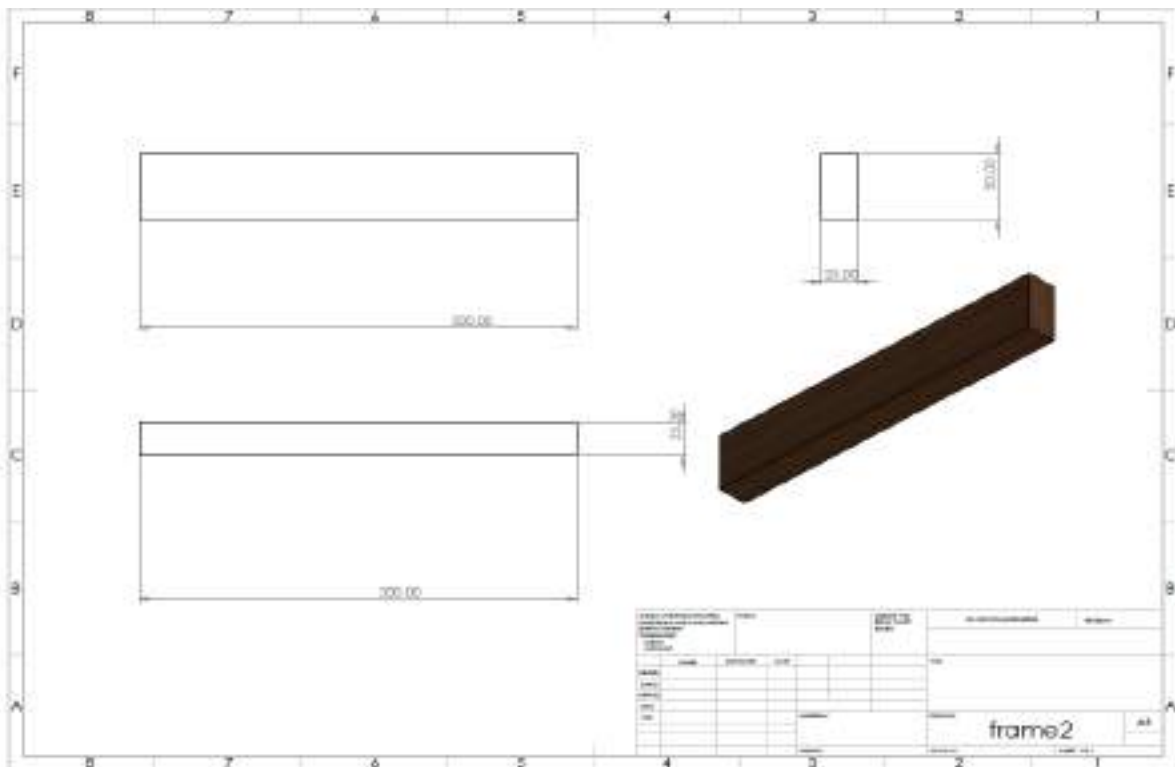
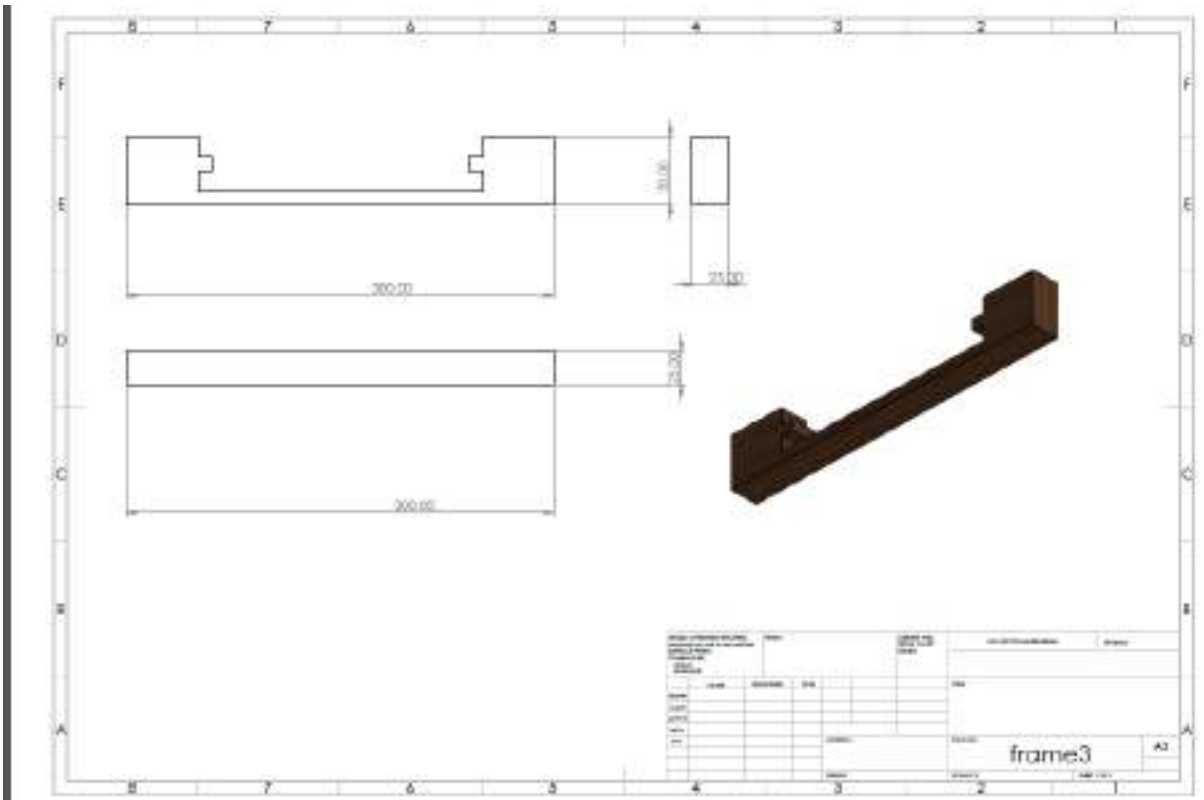
CHAPTER 4 CAD MODELLING

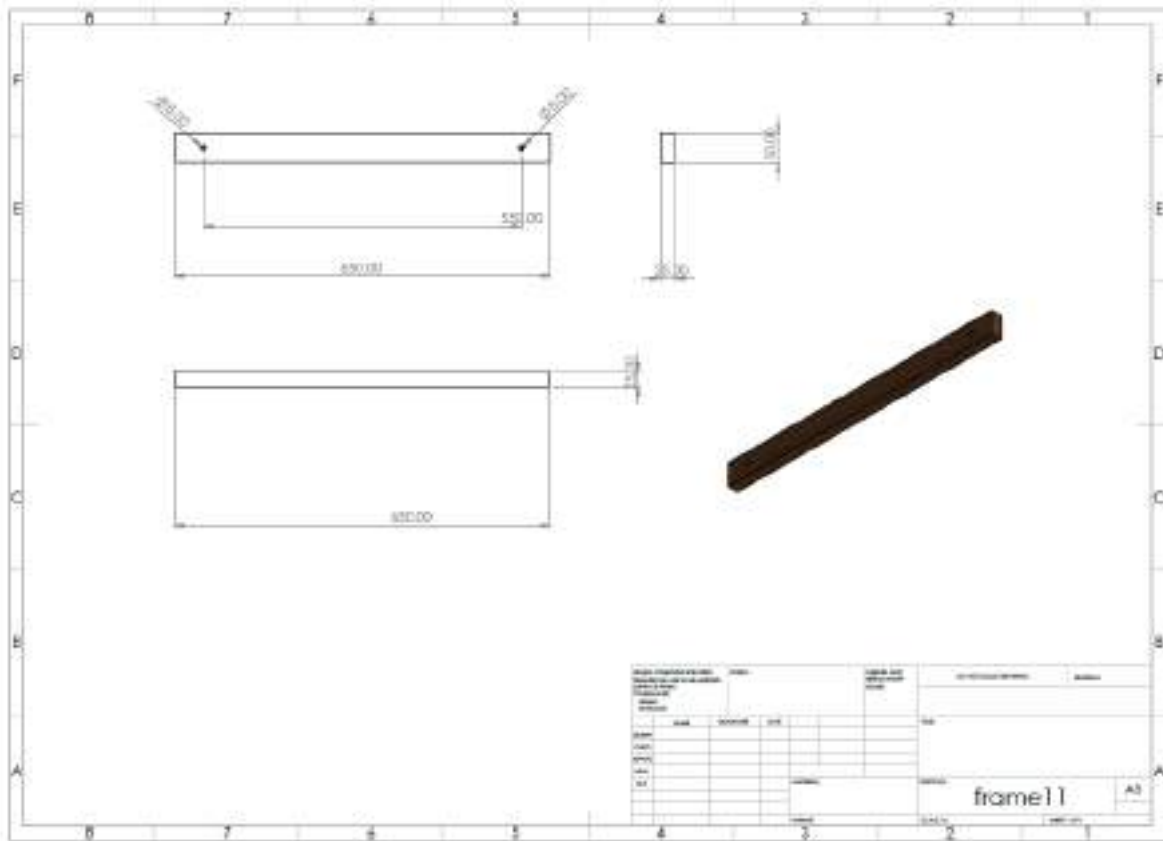
Part Drawings:

2D drawings:



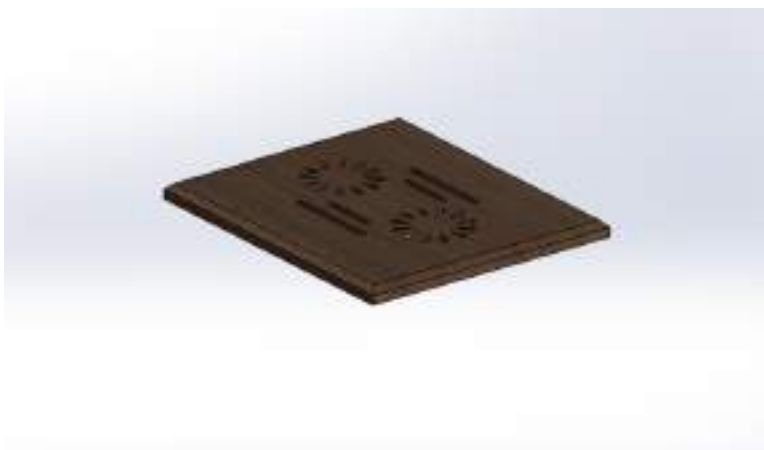






3D Models:

Part 1: Table top



part 2:Drawer Assembly



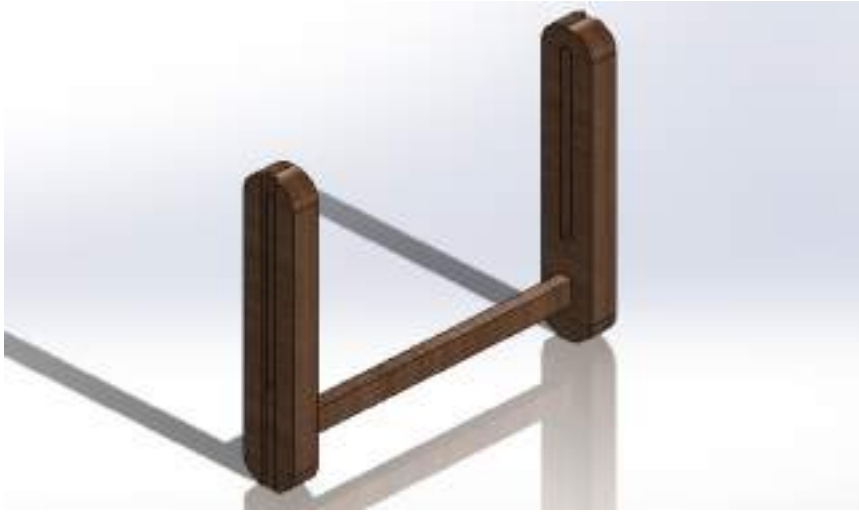
part 3:Workspace



part 4:Support for inclination adjustment



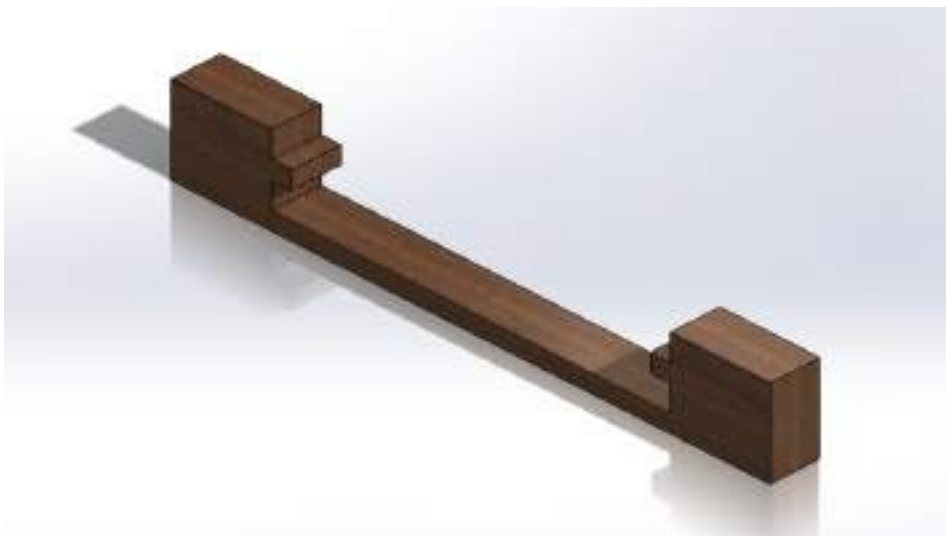
part 5: Inner stand



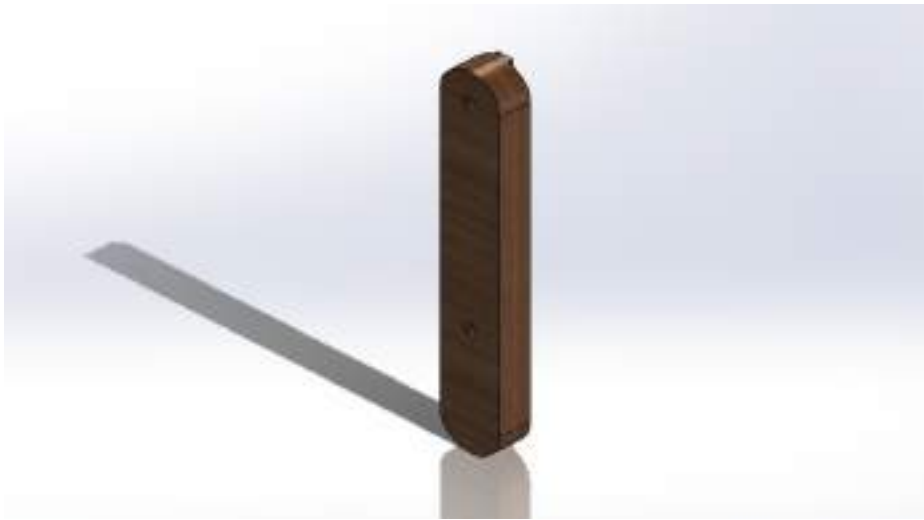
part 6: Inclination adjustment



part 7: Drawer support (side frame)



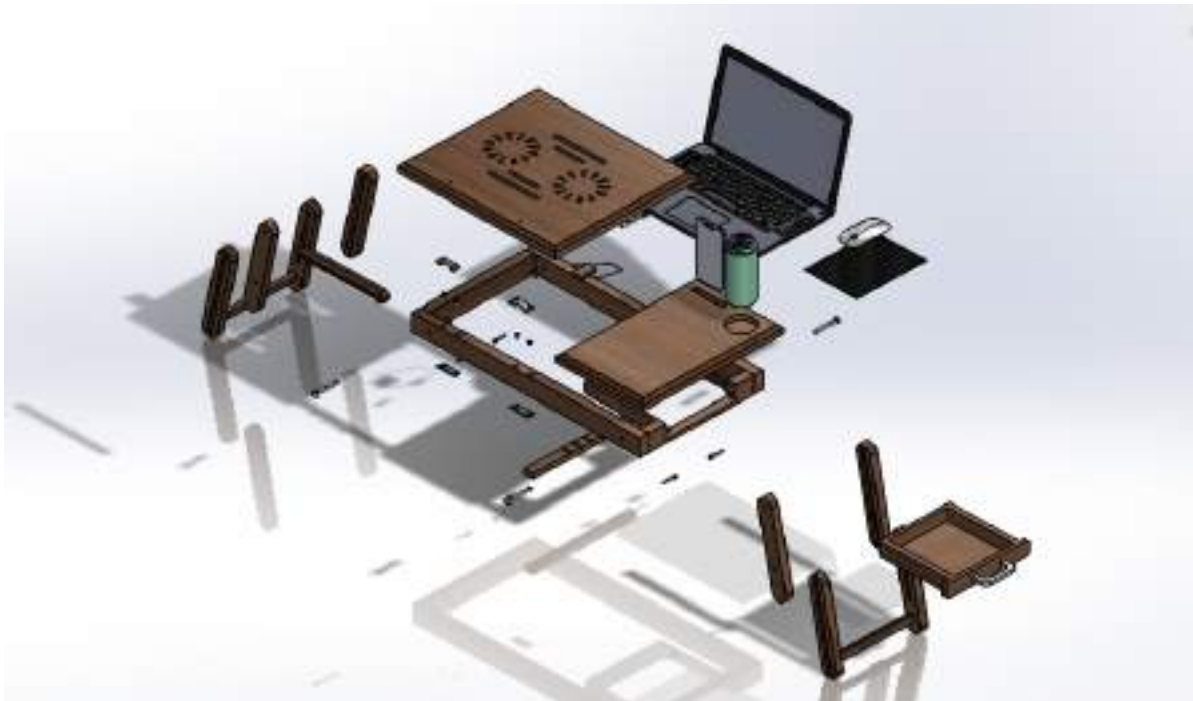
Part 8: Outer stand



Part 9: Frame



Exploded view:



Assmebly:

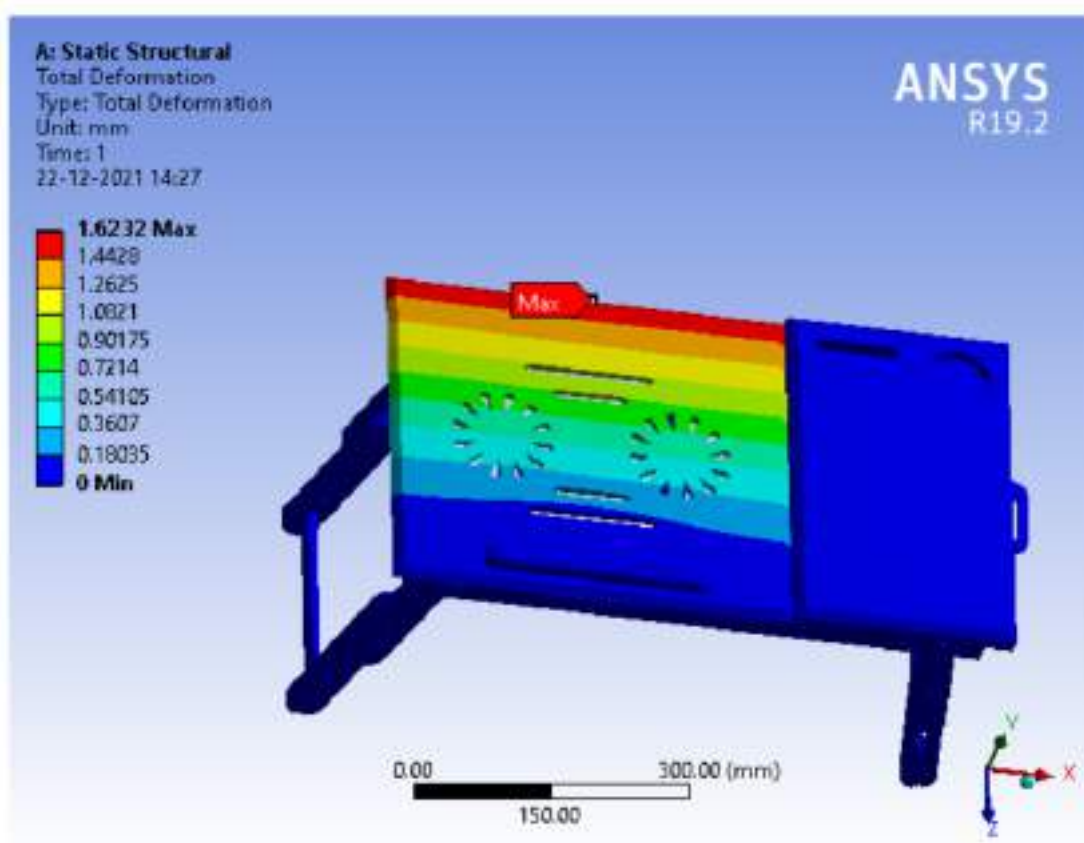


CHAPTER 5 FEM/CFD ANALYSIS

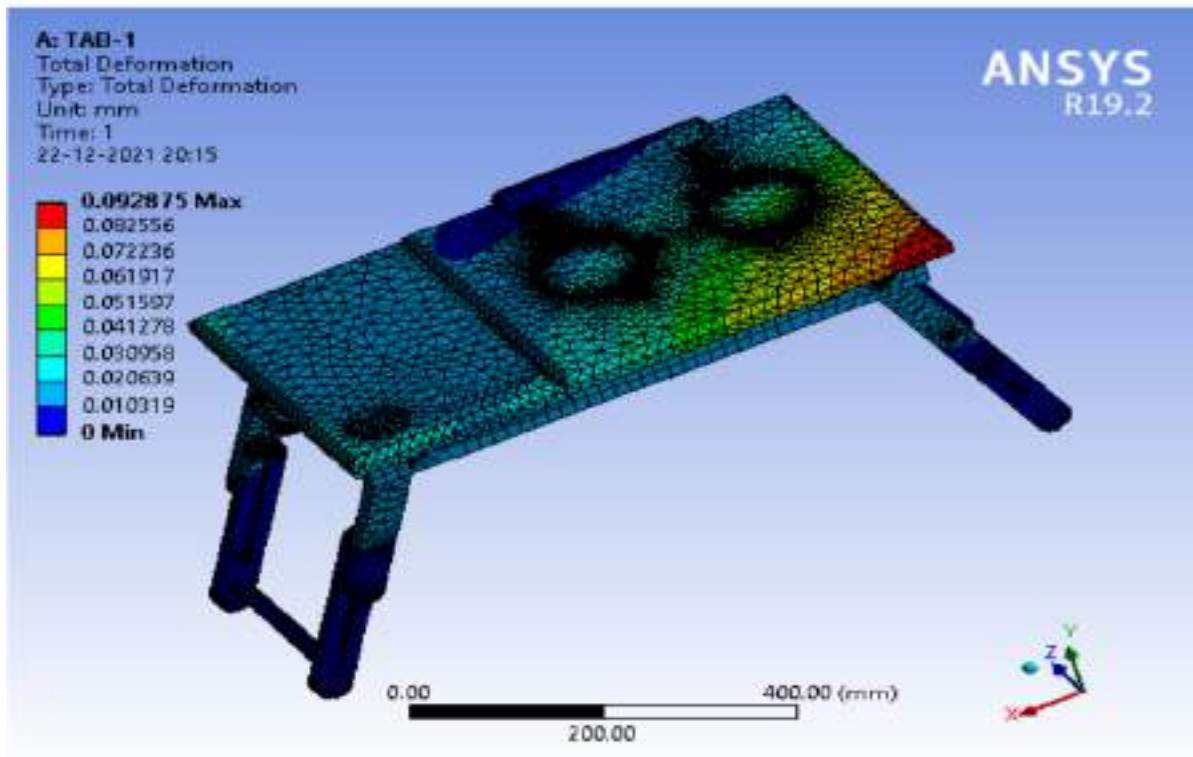
Detail FE-analysis (ANSYS/HYPERMESH) for design validation needs to be completed with discussion that includes Mesh type, Contact type, loading condition, Boundary condition and Results.

FEM analysis for MDF board:

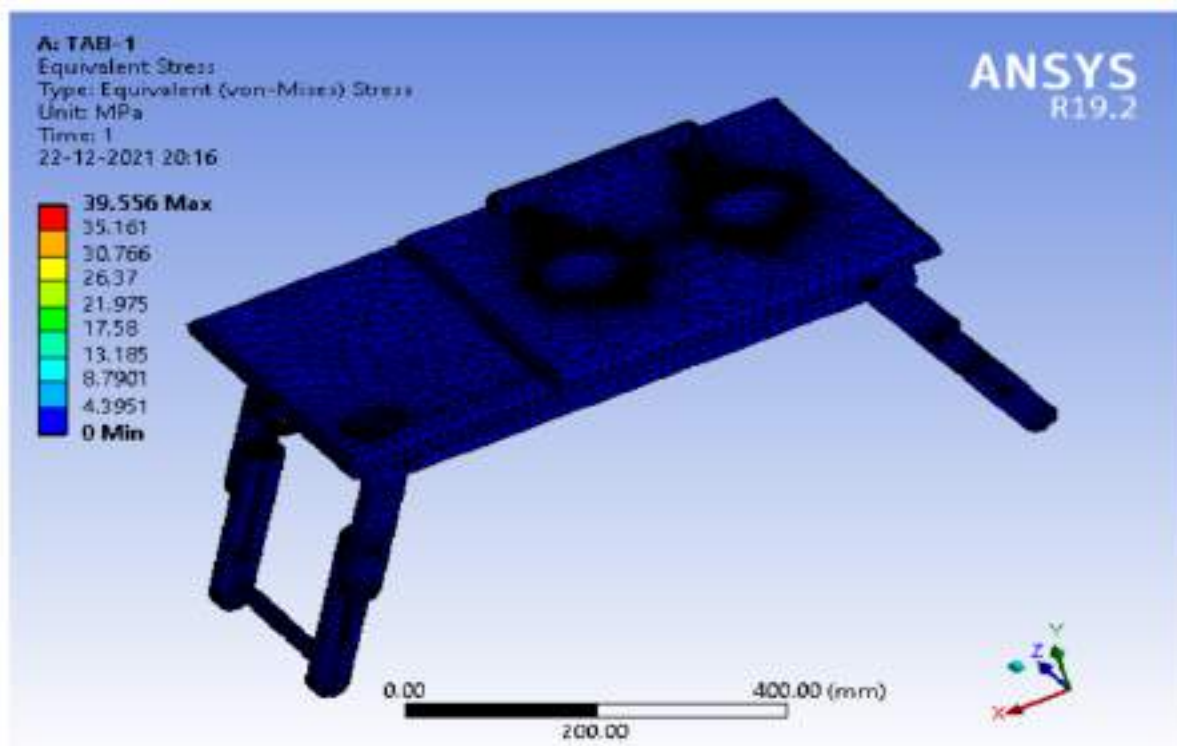
1. Total deformation (Thickness-15mm)



2. Total deformation (Thickness-25mm)

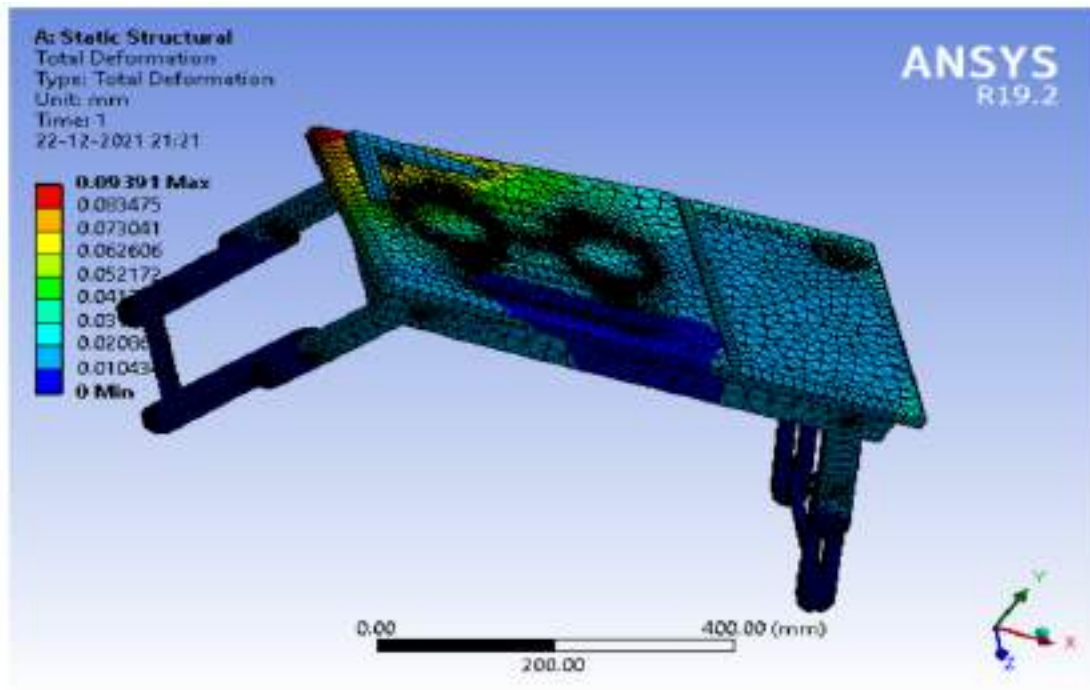


3. Equivalent Stress

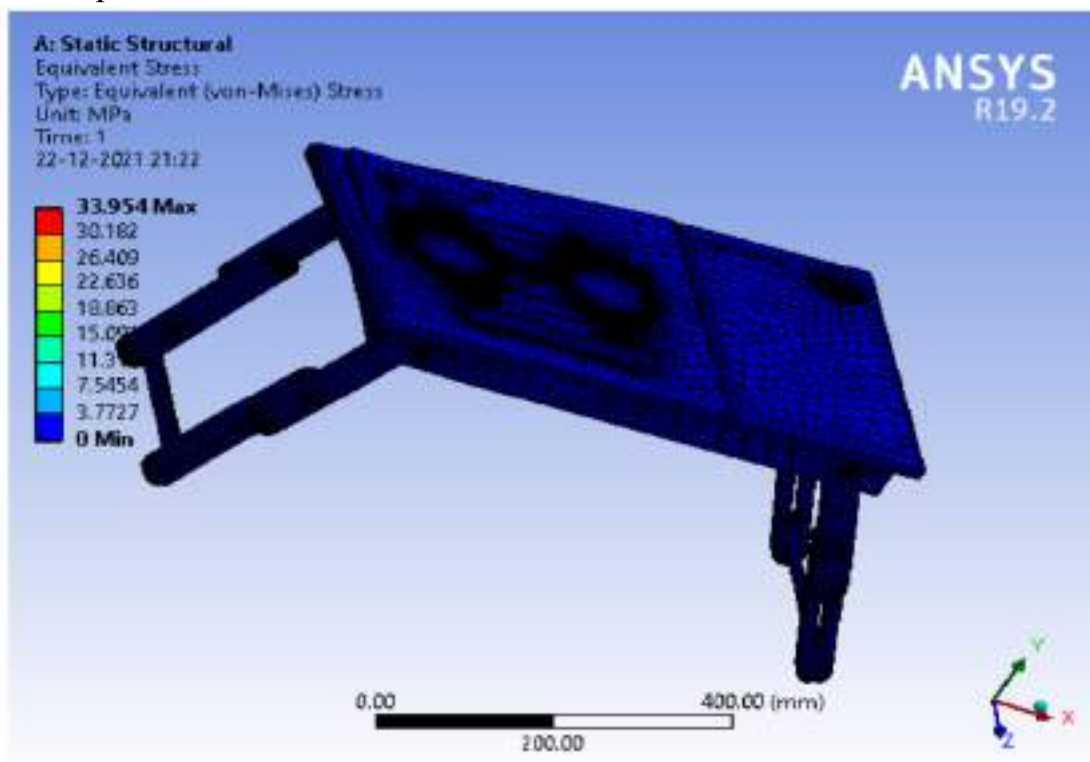


FEM analysis for Particle board:

1. Total deformation (Thickness-25mm)



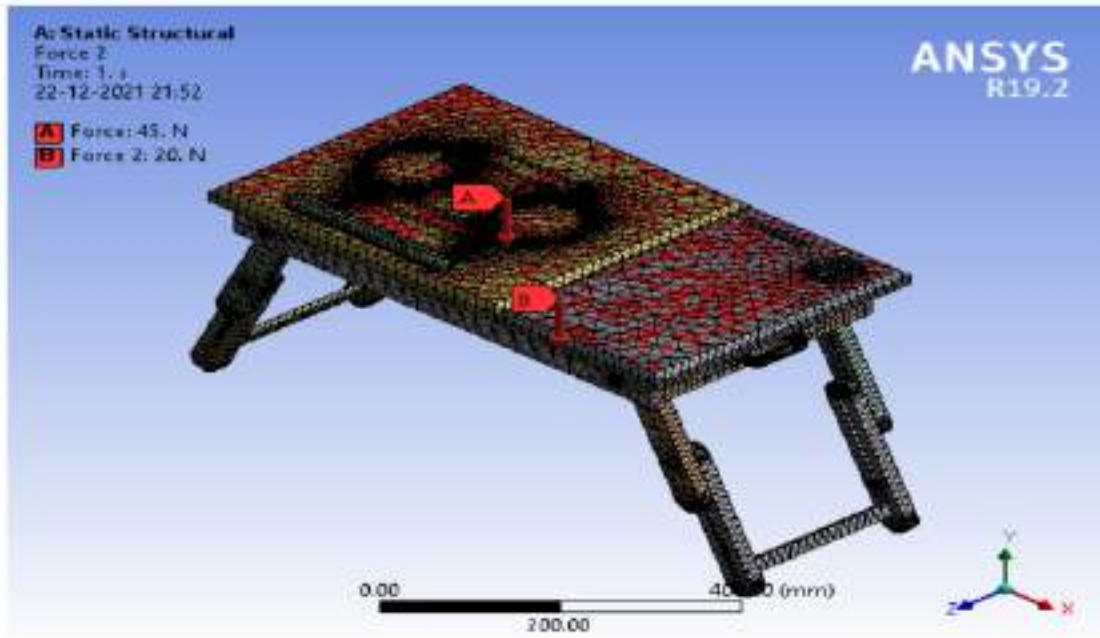
2. Equivalent Stress



Force applied:

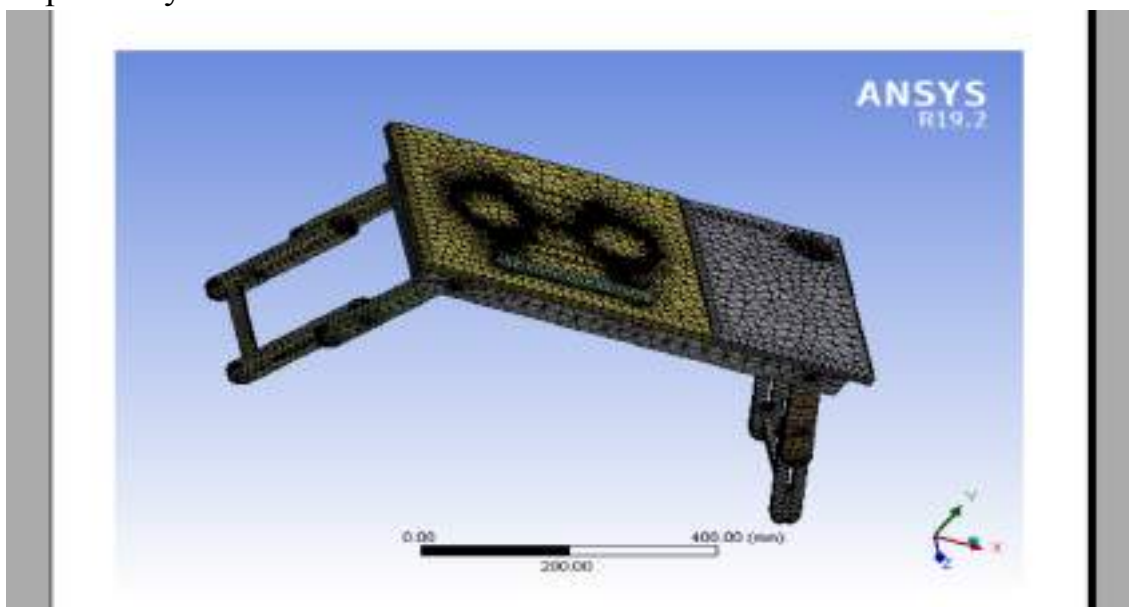
Bottom is fixed

UDL of 45 N/mm for inclination table and 20 N/mm for workspace table



Meshing:

The mesh option in Ansys workbench was used to generate the mesh. The default meshing settings were altered based on the element type and mesh size while meshing. The number of nodes and elements are 299293 and 162900 respectively.



Result from ANSYS :

The MDF is strong and moderate weight but cost is moderately high than conventional woods which are used for furniture works

The particle board for the same dimension will have reduced weight as well as the cost is less for the particle board ,the disadvantage of the MDF board is that the human health will be affected due to the formaldehyde used in the MDF manufacturing which will cause health issues like cancer whereas the particle board has no such notable health affecting disadvantages.

Conclusion and Future scope:

As it would be concluded by FEA modelling that our design is well ok from all aspects of design. So our project would be welcome not only in houses but also in libraries, offices, school ,colleges, etc. since it will provide them dining table at lunch and at other time it can be used as a centre table, drawing table or chair.

This portable attachment is my response to the problems of eyesight, postural defects due to use of continuous conventional tables. Also the adjustable nature of our table attachment makes it suitable for people of variable heights and make them work comfortably.