ADITYA

COLLEGE OF ENGINEERING & TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada, Accredited by NAAC

Ph: (+91884) 2326221, (+91) 99591 76665, Email: office@acet.ac.in, Website: www.acet.ac.in

2.2.1 The Institution assesses the learning levels of the students and organises special programs for advanced learners and slow learners

INDEX

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2	Supporting document	3

PRINCIPAL Aditya College of

Engineering & Technology SURAMPALEM- 533 437





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TO WHOMSOEVER IT MAY CONCERN

This is to certify that all the faculty members are tracking weak learners and advanced learners based on their internal exam performance. The following measures have been taken to improve the learning levels of the students. A sample copy is as follows is attached for:

- 1. Weak learner tracking analysis
- 2. Advanced learner tracking analysis
- 3. Remedial classes for weak learners
- 4. Encouraging to participate in technical events

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Index of supporting documents

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Aditya Nagar, ADB Road, Surampalem - 533437 Department of Mechanical Engineering

Weak Learners tracking Analysis

AY: 2020-21 1st Semester

Section A

		Section A	Number of Wea	k Learners	
S.NO	FACULTY NAME	COURSE NAME	AT SEMESTER START	AFTER 3 weeks instruction	AFTER I Internal exam
		2-1			
1.	Mr. V. Kiran Kumar	Material Science and Metallurgy	12	9	7
2.	Dr. M. Murugan	Mechanics of Solids	15	10	8
3.	Mr. V. Siva Nagi Reddy	Thermodynamics	18	15	10
4.	Ms. A. Swathi	Production Technology	12	8	6
5.	Mr. G B Chandra Mouli	Vector Calculus & Fourier Transforms	26	19	
		3-1			
6.	Dr P Gangadhar Rao	Dynamics of Machinery	17	14	12
7.	Dr. T. Srihari	Metal Cutting & Machine Tools	14	10	7
8.	Mr. Abdul Arif	Design of Machine Members–II	15	12	10
9.	Mr. A. Chiranjeevi V S Prasad	Operations Research	18	15	10
10.	Mr. M. Srinivas	Thermal Engineering -II	20	15	12
		4-1			
11.	Mr. P. Jai Kishan	Mechatronics	15	10	7
12.	Mr. CH. Ram Prasad	CAD/CAM	16	11	9
13.	Mr. K. Vijay	Finite Element Methods	18	12	10
14.	Dr. Stanley Ebnezer	Power Plant Engineering	12	10	7
15.	Dr. Pramod Kumar	Additive Manufacturing	10	8	5
16.	Mr. K. Suribabu	Advanced Materials	12	8	6

Head of the Department



Aditya Nagar, ADB Road, Surampalem – 533437

Department of Mechanical Engineering

Advanced Learners tracking Analysis

	20-21 1 st Semester		Number of Ac	Ivanced Learners	
S.NO	FACULTY NAME	COURSE NAME	AT SEMESTER START	AFTER 3 weeks instruction	AFTER I Internal exam
		2	2-1		
1.	Mr. V. Kiran Kumar	Material Science and Metallurgy	10	12	15
2.	Dr. M. Murugan	Mechanics of Solids	9	10	12
3.	Mr. V. Siva Nagi Reddy	Thermodynamics	6	8	10
4.	Ms. A. Swathi	Production Technology	10	13	15
5.	Mr. G B Chandra Mouli	Vector Calculus & Fourier Transforms	10	10	12
			-1		
6.	Dr P Gangadhar Rao	Dynamics of Machinery	13	15	16
7.	Dr. T. Srihari	Metal Cutting & Machine Tools	15	17	20
8.	Mr. Abdul Arif	Design of Machine Members–II	12	12	13
9.	Mr. A. Chiranjeevi V S Prasad	Operations Research	8	10	12
10.	Mr. M. Srinivas	Thermal Engineering – II	6	8	8
		4	-1		
11.	Mr. P. Jai Kishan	Mechatronics	14	14	14
12.	Mr. CH. Ram Prasad	CAD/CAM	10	10	12
13.	Mr. K. Vijay	Finite Element Methods	13	13	13
14.	Dr. Stanley Ebnezer	Power Plant Engineering	12	13	14
15.	Dr. Pramod Kumar	Additive Manufacturing	13	16	18

Co-ordinator

Mr. K. Suribabu

Head of the Department

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PRINCIPAL
Aditya College of
Engineering & Technology
SURAMPALEM- 533 437

12

Advanced Materials



Aditya Nagar, ADB Road, Surampalem - 533437

Department of Mechanical Engineering

Weak Learners

Subject: Finite Element Methods

Class: IV B. Tech - Section A

AY: 2020-21 1st Semester Basis: Semester Begining

S. No	Roll. No	Student Name
1	17P31A0307	ASAPU SVSSV VIJAYKUMAR
2	17P31A0313	EDA PRADEEP
3	17P31A0317	GORRELA SUBHAKAR GANESH
4	17P31A0318	KOTHA JAYENDRA DURGA VENKATA
		KRISHNA
5	17P31A0319	LANKA DURGA SAILENDRA
6	18P35A0301	ADARI ROHITH
7	18P35A0302	AMARAPURI SAI YASWANTH
8	18P35A0304	ATHI UMAMAHESWARAO
9	18P35A0307	BANDI HARISH
10	18P35A0311	BUDATHA SURYA VARMA
11	18P35A0315	CHINTA RAVITEJA
12	18P35A0318	CHOLLANGI SARATH CHANDRA KALYAN
13	18P35A0321	DAVULURI JAI GANESH
14	18P35A0326	GANISETTI SUBRAHMANYAM
15	18P35A0327	GANTA THARUN PHANI SURYA PRASANT
16	18P35A0329	GORAKAPUDI SAICHAKRADHAR
17	18P35A0330	GORTHI SIVA VIJAY
18	18P35A0331	GUBBALA BENNY KUMAR

Faculty Signature



Aditya Nagar, ADB Road, Surampalem – 533437 **Department of Mechanical Engineering**

Advanced Learners

Subject: Finite Element Methods

Basis: Semester Regining

Basis: Semester Begining **AY:** 2020-21 1st Semester

Class: IV B. Tech - Section A

S. No	Roll. No	Student Name
1	17P31A0302	AKULA SAINAVEEN
2	17P31A0304	AMARADI VEERA VENKATA GANESH
3	17P31A0306	ARATA SRINIVAS
4	17P31A0309	BURRI SIVA
5	17P31A0312	DUDALA SURESH
6	17P31A0316	GOPISETTI VAMSI
7	17P31A0320	MADAKAM YOGESH CHANDRA CHAITANYA
8	17P31A0328	POTHULA SRINIVAS
9	18P35A0312	BUDDALA DURGA PRASAD
10	18P35A0316	CHINTALA JAGADEESH
11	18P35A0320	DAMA SATHEESH
12	18P35A0328	GOLAGANI KISHORE
13	18P35A0332	B PRABHAKAR RAO

Faculty Signature

ADTUAL STREET

Aditya College of Engineering & Technology

Aditya Nagar, ADB Road, Surampalem – 533437

Department Of Mechanical Engineering

Date: 20-10-2020

CIRCULAR

All the faculty of VII Semester are requested to conduct the remedial classes for slow learners from 26.10.2020. The timetable is attached below

Day	Timing	Subject	Faculty
Monday		Mechatronics	Mr. V. Surya Prakash
Tuesday		CAD/CAM	Mr. E. Raghavendra
Wednesday	_	Finite Element Methods	Mr. K. Vijay
Thursday	03:30 PM to 04:30 PM	Power Plant Engineering	Dr. Stanley Ebnezer
Friday		Additive Manufacturing	Dr. Pramod Kumar
Saturday		Advanced Materials	Mr. K. Suribabu

Co-ordinator

Head of the Department



Aditya Nagar, ADB Road, Surampalem – 533437

Department Of Mechanical Engineering

Remedial Classes Summary

Academic Year - (2020-21)

Name of the Course Instructor: Mr. K. Vijay

Semester

: VII

Name of the subject

: Finite Element Methods

No of slow learners

: 55

No of remedial hours

:06

S.No	Date	Торіс	Signature
1	28-10-20	Finite Element Procedure	Y. Gre
2	28-10-20	Relationship between displacement street, and strange	
3	29-10-20	weighted residual methods	x Gira
4	4-11-20	1-Dimensional Problems polintial Energy Approach	x Gie
5	4-11-20	Applying Boundary conditions	& Gic
6	11-11-20	problems on trussy and beams	K. Gja
7	11-11-20	Two-Dimensional Analysis, problems	K. Gi
8	18-11-20	Stress- strain relationship in CST	& Gira
9	18-11-20	Two-dimensional Analysis of far	E Gra
10	25-11-20	Heat-transfer & Vibration Analysis	S. Cara

Care .

Signature of Course Instructor

Signature of HOD



Aditya Nagar, ADB Road, Surampalem – 533437 **Department Of Mechanical Engineering**

Academic Year - (2020-21)

Name of the Subject: FINITE ELEMENT METHODS

Attendance sheet-Section-I

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2	17P31A0313	EDA PRADEEP	2	3	5	7	9	10		
3	17P31A0317	GORRELA SUBHAKAR GANESH	2	3	5	7	A	8		
4	17P31A0318	KOTHA JAYENDRA DURGA VENKATA KRISHNA	2	3	5	7	9	10		
5	17P31A0319	LANKA DURGA SAILENDRA	2	3	5	7	9	10		
6	18P35A0301	ADARI ROHITH	2	A	4	6	8	9		
7	18P35A0302	AMARAPURI SAI YASWANTH	2	3	5	7	9	10		
8	18P35A0304	ATHI UMAMAHESWARAO	2	3	5	7	9	10		
9	18P35A0307	BANDI HARISH	2	3	5	7	9	lo		
10	18P35A0311	BUDATHA SURYA VARMA	2	3	5	7	9	10		
11	18P35A0315	CHINTA RAVITEJA	2	3	5	7	A	8		
12	18P35A0318	CHOLLANGI SARATH CHANDRA KALYAN	2	3	5	7	9	10		
13	18P35A0321	DAVULURI JAI GANESH	2	3	5	7	9	10		
14	18P35A0326	GANISETTI SUBRAHMANYAM	2	A	4	6	8	9		
15	18P35A0327	GANTA THARUN PHANI SURYA PRASANT	2	3	5	7	9	10		
16	18P35A0329	GORAKAPUDI SAICHAKRADHAR	2	3	5	7	9	10		
17	18P35A0330	GORTHI SIVA VIJAY	2	3	5	7	9	A	Ø	
18	18P35A0331	GUBBALA BENNY KUMAR	2	3	5	7	9	10		

Signature of Course Instructor

Signature of HOD

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Aditya Nagar, ADB Road, Surampalem, E.G.Dist., Andhra Pradesh.

INTERNAL EXAMINATION ANSWER BOOKLET ACADEMIC YEAR 201 - 201

H.T. No. P3 Name of the Student : K. Jaycodna dunga vincata lewish Year: 1 / II / III / IV Semester: 1 / II Branch: Mcth Section: A / B / C / D Subject: Firste element ruchads Mid! / 11 No. of Additionals Used : _____ Course : B.Tech/M.Tech/MCA/MBA/MAM Signature of the Candidate

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Permanently Affiliated to JNTUK, KAKINADA * Approved by AICTE, New Delhi * Acceredited by NAAC Recognized by UGC under Section 2(f) and 12(B) of UGC Act 1966
Aditya Nagar, ADB Road, Surampalem, E.G.Dt-533437 Ph: 9959178665, 0884-2325212

INTERNAL EXAMINATION ANSWER BOOKLET ACADEMIC YEAR 20 - '20 | College | D2

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Aditya Nagar, ADB Road, Surampalem, E.G.Dt.533437 Ph: 9959176665, 0884-2326212

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Aditya Nagar, ADB Road, Surampalem – 533437

Department of Mechanical Engineering

List of Student Internships

S. No	Regd. No	Name of the Student	Company	Technology
1	18P35A0342	KARRI SURYA VENKATA PRAKASH RAO	RINL	Steel plant
2	18P35A0340	KANTHI ANAND PRASAD	RINL	Steel plant
3	18P35A0325	GAIPURI BHASKAR	RINL	Steel plant
4	18P35A0305	AVVARI N V A CHIRANJEEVA SANDEEP	RINL	Steel plant
5	16P31A0310	DWARAMPUDI GANA SAIKIRAN AVINASH RAJ	Reliance	Power plant
6	16P31A0346	THOTAKURA UDAY SHANKAR	ONGC	Mudpump
7	16P31A0333	PATAMSETTI VEERAVENKATARAMANA	NIT Rourkela	ANSYS
8	17P35A0322	VELAGALA SAIVIKAS REDDY	INTERNSHALA	(ISP)9.0
9	16P31A0310	DWARAMPUDI GANA SAIKIRAN AVINASH RAJ	INTERNSHALA	(ISP)9.0
10	18P35A0376	POLAVARAPU CHIRANJEEVI	steel plant	Engineering
11	18P35A0342	KARRI SURYA VENKATA PRAKASH RAO	RINL	Steel plant



हेवी प्लेट्स एंड वेसल्स प्लांट, विसखापत्नाम -530012, अ.प्र., भारात .

Bharat Heavy Electricals Limited

Heavy Plates & Vessels Plant, Visakhapatnam – 530012, A.P., INDIA

Ref: HRDC/B/07/2021

CERT.NO:6409/.28.09.2021

Date: 01/11/2021

CERTIFICATE

This is to certify that Mr. PINDI BALU S/o Shri PINDI JAYABABU Studying B.Tech (Mech) in ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY, SURAMPALEM. Has done INTERNSHIP in BHEL-HPVP, Visakhapatnam from 28.09.2021 to 12.10.2021.

During the above period his CONDUCT & CHARACTER were found Very Good and we wish him a bright future.

Dy. General Manager (HRDC& Security)

ભોત, તું અનુ કુ કુઈલ હોતા તે કહ્યું છે. 30 મહા મુલ્લા કુકાલા કે તા હતું . .

Dy. General Manager (HRDC & Section बीमुगईमुल, एचपी दीपी/BLEL-HPVP, विभाववपुरुवा/VISAKHAPATNAM-530-012

Tel. No. 0891-6681280, Fax: 6681700, e-mail: xxxx@bhel.in, website: www.bhel.com

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Date: 01/11/2021

CERTIFICATE

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(G Kuru Murthy)

Dy. General Manager (HRDC& Security)

ाप गरा प्रकार (एवं सार्वा क्रिक्ट & Section Dy. General Manager (मास्ट्राट & Section क्रिक्ट क्रिक क्रिक्ट क्रिक्ट क्रिक क्रि

Tel. No. 0891-6681280, Fax: 6681700, e-mail: xxxx@bhel.in, website: www.bhel.com

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Dy. General Manager (HRDC& Security)

TH महा प्रदेशक (मेन संस्थात है। Dy. General Manager (मेसकट & Section की एचर्ड एल , प्रदर्भ की बी/कार्टी-HPVP, विशासगढ़ एक (VISAKHAPA) NAM-530 012

Tel. No. 0891-6681280, Fax: 6681700, e-mail: xxxx@bhel.in, website: www.bhel.com



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Bharat Heavy Electricals Limited

Heavy Plates & Vessels Plant, Visakhapatnam - 530012, A.P., INDIA

Ref: HRDC/B/07/2021

CERT.NO:6402/.28.09.2021

Date: 01/11/2021

CERTIFICATE

This is to certify that Mr. KOVVURI MANIKANTA REDDY S/o Shri KOVVURI VENKATA REDDY Studying B.Tech (Mech) in ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY, SURAMPALEM. Has done INTERNSHIP in BHEL-HPVP, Visakhapatnam from 28.09.2021 to 12.10.2021.

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(G Kuru Murthy)

Dy. General Manager (HRDC& Security)

अप गारी भारत क्षेत्रका (HRDC & S Dy. General Manager (HRDC & S भीपन देवल प्रभागिती में (HRDC & S चिपाचवर्ड स्मा/YISAIGIAPAINAM-53) है।

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Ref: HRDC/B/07/2021

CERT.NO:6406/.28.09.2021

Date: 01/11/2021

CERTIFICATE

This is to certify that Mr. MULAMPAKA AJAY S/o Shri MULAMPAKA RAMAKRISHNA Studying B.Tech (Mech) in ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY, SURAMPALEM. Has done INTERNSHIP in BHEL-HPVP, Visakhapatnam from 28.09.2021 to 12.10.2021.

During the above period his CONDUCT & CHARACTER were found Very Good and we wish him a bright future.

(G Kuru Murthy)

Dy. General Manager (HRDC& Security)

Dy. Ceneral damager (HRDC व - 2007) चीएचई पूल एच पाडीपी/(BHCL-HPVP) विशासपट्टाम/VISAKHAPA(NAM-530 012

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Ref: HRDC/B/07/2021

CERT.NO:6410/.28.09.2021

Date: 01/11/2021

CERTIFICATE

This is to certify that Mr. PUPPALA RAVITEJA S/o Shri PUPPALA BHASKARA RAO Studying B.Tech (Mech) in ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY, SURAMPALEM. Has done INTERNSHIP in BHEL-HPVP, Visakhapatnam from 28.09.2021 to 12.10.2021.

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(G Kuru Murthy) 2011 Dy. General Manager (HRDC& Security)

> 3प एटा प्रशेषक (त्व शा राजी का Dy. General Manager (HRDC & Section बीएवईएल, एजपीजीपी/BHEL-HPVP, विभाषपट्टा/VISARHAPATNAM-530 एस्ट

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Aditya Nagar, ADB Road, Surampalem - 533437

AUTOMOBILE CLUB:

SAEINDIA-ACET:

In the Department of Mechanical Engineering of Aditya College of Engineering & Technology, under SAEINDIA total 55 members of students from Mechanical, Electrical and Electronics, Electronics and communication Engineering are actively participating in the events of SAE BAJA. All the Automobile club students are participating in several activities. Here is a list which indicates the previous activities of Automobile club.

Table 1 Activities of Automobile club from 2016-17 onwards

SI. No	Academic Year	Semester	Particulars/Event	No. of Students	
1	2021-22	I	SAE BAJA	25	
2	2020-21	I	SAE BAJA	25	
3	2019-20	II	ETWDC	10	
4	2019-20	II	GOKART - STEP CONE at GMRIT	23	
5	2019-20	II	GOKART - SIEGER at ADITYA	23	
6	6 2019-20 I		HANDS ON EXPERIENCE OF AUTOMOTIVES	208	
7	2018-19	II	GOKART	18	
8	2017-18	I	SAE BAJA	25	
9	2016-17	II	ESVC - ISIE	25	

SAE BAJA 2021-2022:

BAJA 2022 is the event organising by SAE INDIA in three phases of virtual round for scrutinizing the participants, virtual dynamic through IPG Car maker and Physical Dynamic Event in which have to participate with Fabricated ATV.

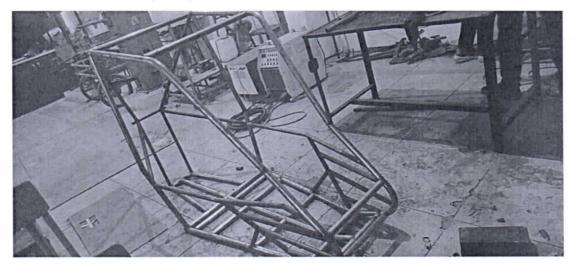
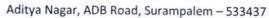


Figure 1 Fabrication of the ATV chassis



SAE BAJA 2020-2021:

Due to pandemic situations event is completely organised through virtual mode by using IPG Car Maker for endurance of the vehicles along with other static rounds like business plan, design report. In this event totally 25 students from Mechanical, Electrical and Electronics, Electronics and communications Engineering with two faculty advisors from Mechanical are participated.

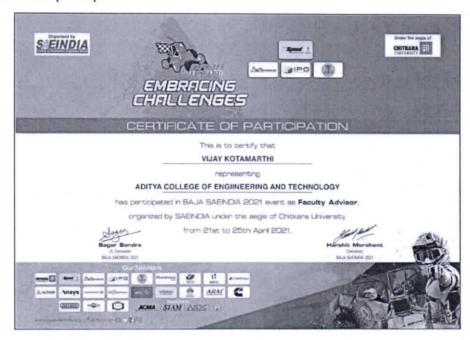


Figure 2 Certificate of Faculty advisor



Aditya College of Engineering & Technology Aditya Nagar, ADB Road, Surampalem – 533437

CERTIFICATE OF PARTICIPATION

This is to certify that:

AJAY KUMAR CHAVALA

representing

ADITYA COLLEGE OF ENGINEERING AND TECHNOLOGY

has perticipated in BAJA SAENDIA 2021 svent, organized by SAENDIA under the eagls of Chitkana University from 21st to 25th April 2021.

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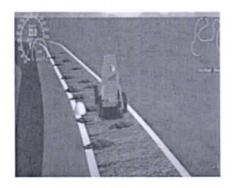
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BAJA

Figure 3 Certificate of student







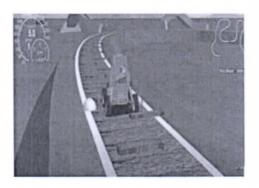


Figure 4 IPG Car Maker Simulation test ride for Endurance

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Electric Two-Wheeler Design Challenge:

ETWDC is an event organised by SAEINDIA Southern Section. A total of 10 students from Mechanical and Electrical and Electronics Engineering with two faculty advisors are participated in this event from Aditya College of Engineering & Technology. Due to pandemic situation, the event is restricted to online only. In this event, three phases of Design report-1, Design report-2 and static event-business plan.

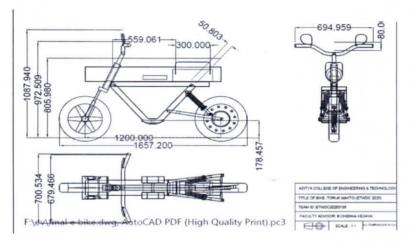


Figure 5 Master layout of Electric bike



Figure 6 3D model of the designed vehicle



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Aditya College of Engineering & Technology

Aditya Nagar, ADB Road, Surampalem - 533437

Certificate of Participation This is to certify that Mr/Ms/Mrs. KAMIREDDY SUBASH from ADITYA COLLEGE OF ENGINEERING & TECHNOLOGY has participated in SAEISS Electric Two Wheeler Design Competition - 2020

Figure 7 Student Participation certificate



Figure 8Faculty advisor participation certificate



Aditya Nagar, ADB Road, Surampalem - 533437

Hands on experience on automotive:

Automobile club students are encouraged to participate in automotive hands on experience as part of skill development program



Figure 9 Explanation of the Bus chassis and parts



Figure 10 Differential gear box

Aditya Nagar, ADB Road, Surampalem - 533437



Figure 11 Differential gear box



Figure 12 Two wheeler bike parts





Aditya Nagar, ADB Road, Surampalem - 533437



Figure 13 Two-wheeler engine components

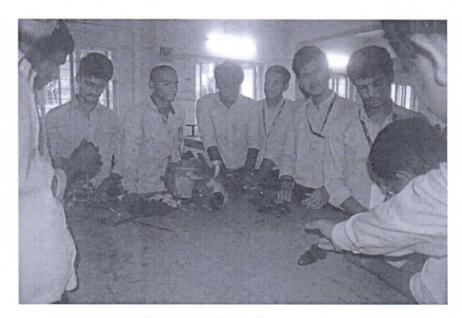


Figure 14 Assembly of engine components



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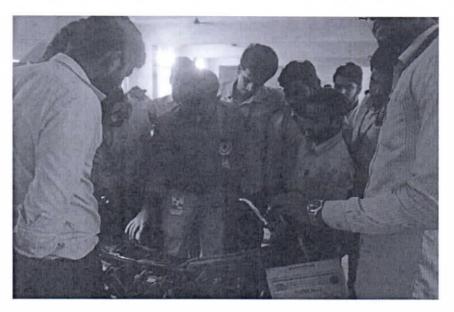


Figure 15 Bike chassis explanation

Electric Solar Vehicle:

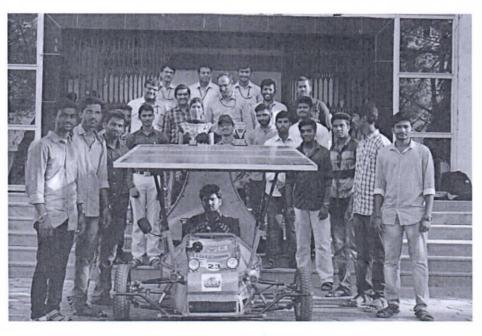


Figure 16 Appreciation from Principal

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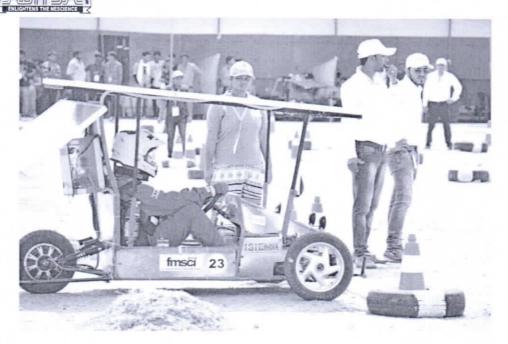


Figure 17 Acceleration test at ESVC - ISIE



Figure 18 Appreciation from Aditya Educational Group Chairman Sri N Sesha Reddy



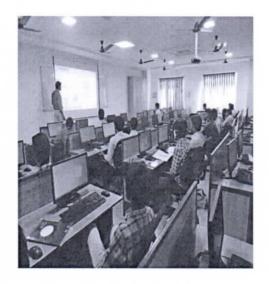
ADITUAL SOCIETA SOCIET

Aditya College of Engineering & Technology

Aditya Nagar, ADB Road, Surampalem - 533437

Training Programmes

Training programmes such as AUTOCAD, CNC, Python and Computer based training (Solid edge) etc. were conducted to develop technical skills in the students suitable for placements.









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