



DTE Code : **EN6315**



॥ विद्यायां विद्या संकीर्तनी ॥

NAAC Accredited

AICTE ID : 1-8019451
AISHE Code : C-11165

HOLY-WOOD ACADEMY'S
SANJEEVAN

ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA

Sanjeevan Knowledge City, Somwar Peth-Injole, Panhala, Tal. Panhala, Dist. Kolhapur.
Pin- 416 201 (Maharashtra) Phone : 9146999500

○ Approved By AICTE, New Delhi ○ Recognized by Govt. of Maharashtra & DTE
○ Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad

Annual Report 2022-23

By- IQAC

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HOLY-WOOD ACADEMY'S

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Permanent Affiliation by Dr. Babasaheb Ambedkar Technological University, Raigad**1. ACADEMIC INFORMATION**

Program code	Course code	Course Name	Year of introduction	Sanctioned intake
UG				
EN6315	631519110	Civil Engineering	2009	60
	631524210	Computer Science & Engineering	2009	120
	631529310	Electrical Engineering	2010	60
	631561210	Mechanical Engineering	2009	60
PG				
ME6315	631590410	Mechanical Engineering Design (PG)	2012	06

2. Students: A.Y. 2022-23 Number of student's Branch wise: Total Strength: 960

Branch	First Year	Second year	Third Year	Final Year	M. Tech
Mechanical Engineering	10	64	64	43	02
Computer Science Engineering	128	75	74	67	--
Civil Engineering	08	47	65	55	--
Electrical Engineering	35	70	66	58	--
Electronics & Telecommunication Engg.	--	--	--	14	--
Automobile Engineering	--	--	--	15	--

3. TeachersNumber of teaching staff / full time teachers: **54**

Designation	Total
Professor	04
Associate Professor	01
Assist. Professor	48
T.P.O.	01

Branch	Number of Teachers
Mechanical Engineering	15
Computer Science Engineering	08
Civil Engineering	09
Electrical Engineering	06
Electronics & Telecommunication Engg.	07
Automobile Engineering	03
General	06
Total	54



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4. Number of students enrolled in Certificate/ Value added courses: **1120**

Name of Add on /Certificate /Value added programs offered and online MOOC programs like SWAYAM, NPTEL etc. programs offered	Course Code (if any)	Year of offering	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year
Student Induction Program (BSH)	NA	2022-23	14 Nov-18Nov 2022	5 days (One Week)	182	182
NPTEL(CSE) Programming in JAVA	NA	2022-23	July-Oct 2022	14 weeks	1	1
NPTEL(CSE) Data structure & algorithm used in JAVA	NA	2022-23	July-Oct 2022	13 weeks	5	5
NPTEL(CSE)Database Management System			Aug-Oct-22	08 weeks	2	2
NPTEL(Electrical)Introduction to Industry 4.0	BTEE O801F	2022-23	Jan-Apr2023	15 weeks	19	19
NPTEL(Electrical)Entrepreneurship Essentials	BTEEP 803	2022-23	Jan-Apr2023	16 weeks	5	5
Ready Engineer Course	NA	2022-23	Throughout year	Throughout year	53	5
Soft / Life Skills Training(BSH)	NA	2022-23		One Week	184	184
IPR(Civil)	NA	2022-23	8/10/2022 To 22/04/2023	30 hrs	167	167
RCC Design drafting using CAD(Civil)	NA	2022-23	11/03/2023 To25/03/2023	30 hrs	20	20
Python Programming for Data Science(CSE)	NA	2022-23	11/03/2023 To 27/05/2023(Saturdays)	30 hrs	56	56
Advanced Java Programming(CSE)	NA	2022-23	11/03/2023 To 27/05/2023(Saturdays)	30 hrs	67	67
PLC & SCADA(Electrical)	NA	2022-23	11/03/2023 To 27/05/2023	30 hrs	98	98
Electrical Vehicle(Electrical)	NA	2022-23	24/09/2022 To 10/12/2022	30 hrs	140	140
Advanced Casting Technology(Mech)	NA	2022-23	25/02/2023 To 27/05/2023(Saturdays)	30 hrs	65	65
Productivity Improvement Techniques in manufacturing organizations.(Mech)	NA	2022-23	25/02/2023 To 29/04/2023	30 hrs	62	62
Introduction to Product Design	NA	2022-23	25/02/2023 to 27/05/2023	31 hrs	44	42

5. Percentage of students undertaking project work/field work/ internships:
68.23 %

 Number of students undertaking project work/field work / internships: **655**

Sr. No.	Branch	Project Phase I & II	Industrial Training	Internship
1	Mechanical Engineering	44	65	71
2	Computer Science Engineering	67	80	74
3	Civil Engineering	55	--	--
4	Electrical Engineering	60	71	68

6. Enrolment percentage : 57.18 %

 Number of seats filled (first year admissions): **175**

 Number of sanctioned seats: **306**

Programme name	Programme Code	Number of Students admitted	Number of seats sanctioned
Civil Engg	631519110	8	60
Computer Sci & Engg	631524210	120	120
Electrical Engg	631529310	35	60
Mechanical Engg	631561210	10	60
M.Tech Mech Engg Design	631590410	2	6
Total Admitted Students		175	306

7. Percentage of seats filled against reserved categories (SC, ST, OBC etc.) first year admission: 46.40 %

 Number of actual students admitted from the reserved categories: **71**

Programme name	Programme Code	SC	ST	OBC	Others
Civil Engg	631519110	0	0	0	1
Computer Sci & Engg	631524210	14	0	30	18
Electrical Engg	631529310	0	0	2	3
Mechanical Engg	631561210	0	0	1	1
M.Tech Mech Engg Design	631590410	0	0	1	0
Number of actual students admitted from the reserved categories		71			

8. Number of seats earmarked for reserved category as per GOI/ State Govt rule: 153

Programme name	Programme Code	SC	ST	OBC	Others
Civil Engg	631519110	9	4	11	6
Computer Sci & Engg	631524210	18	8	22	12
Electrical Engg	631529310	9	4	11	6
Mechanical Engg	631561210	9	4	11	6
M.Tech Mech Engg Design	631590410	1	0	1	1
Number of seats earmarked for reserved category as per GOI/ State Govt rule		153			

9. Student Teacher Ratio

Student – Full time Teacher Ratio: 17.78 %

Number of Students	960
Number of Teacher	54

10. Percentage of full time teachers with NET/SET/SLET/ Ph. D./D.Sc. /

D.Litt./L.L.D.: 18.51 %

Number of full time teachers with NET/SET/SLET/Ph. D./ D.Sc. / D.Litt./L.L.D: **10**

Sr. No.	Name of full time teacher with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D’Lit.	Qualification (Ph.D./D.M/M.Ch./D.N.B Superspeciality/ D.Sc./D’Lit.) and Year of obtaining
1	Shri. Vanarotti Mohan Bhimraiya	Ph.D
2	Shri. Koli Gajanan Chandrashekhar	Ph.D
3	Shri. Katkar Ajit Ashok	Ph.D
4	Shri. Deokar Vinayak Hindurao	Ph.D
5	Shri. Patil Vishal Subhashrao	Ph.D
6	Shri. Potdar Sachin Sitaram	Ph.D
7	Shri. Maske Ajay Krishna	Ph.D
8	Shri. Sanjeev Natvar Jain	Ph.D
9	Shri. Suhas Gajanan Sapate	Ph.D
10	Shri. Dinkar Shivajirao Bhosale	Ph.D



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11. Passing Percentage of final year students: 75.60 %

Number of final year students who passed the university examination: **186**

Number of final year students who appeared for the university examination: **246**

Sr. No.	Program Name	Program Code	Number of students passed in final year examination	Number of final year students who appeared for the university examination	%
1	Automobile Engineering	631560210	8	13	61.54
2	Civil Engineering	631519110	48	55	87.27
3	Computer Engineering	631524210	63	67	94.03
4	Electrical Engineering	631537210	46	56	82.14
5	Electronics and Telecommunication	631529310	8	13	61.54
6	Mechanical Engineering	631561210	13	42	30.95
Number of final year students			186	246	75.60

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Sr. No.	Name of the workshop/ seminar/ conference	Number of Participants
1	Workshop on IPR Awareness and Filing Procedure	43
2	One day workshop on " Rules & Regulation in IPR", Conducted by Civil Dept	35
3	One day workshop on " IPR Paten Filing & Granting Process", Conducted by Civil Dept	22
4	One day workshop on " Importance of IPR & Managing IP at Early stage of Start up ", Conducted by Civil Dept	30
5	One day workshop on " Governing body of IPR Litigation ", Conducted by Civil Dept	25
6	One day workshop on " Various IPR Filled Related to Civil Engg ", Conducted by Civil Dept	55
7	one day Seminar on " Importance of IPR ", Conducted by CSE Dept	74
8	one day Seminar on " Research Methodology ", Conducted by CSE Dept	74
9	one day Seminar on " Research Methodology ", Conducted by CSE Dept	67
10	one day Seminar on "IPR Rights ", Conducted by CSE Dept	75
11	one day Seminar on "IPR Rights ", Conducted by CSE Dept	67
12	One day workshop on , "IPR Basics & Its Needs "Conducted by Electrical Dept	57
13	One day workshop on , "IPR Patent filing & Granting Process" Conducted by Electrical Dept	42
14	One day workshop on , "Invention Kinds & Trademarks" Conducted by Electrical Dept	56
15	One day workshop on , "Copy right & related Rights" Conducted by Electrical Dept	56
16	One day workshop on , "Trade Secrets & Geographical Indications" Conducted by Electrical Dept	41
17	One day workshop on , "Intellectual Property Rights" Conducted by Mechanical Dept	36
18	One day workshop on , "Research Methodology " Conducted by Mechanical Dept	71
19	One day workshop on , "Research Process " Conducted by Mechanical Dept	65

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Sr. No.	Title of paper	Name of the author/s	Department of the teacher
1	Load-bearing characteristics of a hybrid Si3N4-epoxy composite	Dr. Koli Gajanan C	Mechanical Engg.
2	Performance analysis of sodium alanate hydride reactor with different nanofluids	Rahul U. Urunkar	Mechanical Engg.
3	Motor Vehicles Forecasting in Kolhapur City Using Combined Grey Model	Sagar M. Shinde	Civil Engineering
4	An Automatic MCQ & Summary Generation By Using NLP"	Prof. Pallavi Patil	Computer Science and Engineering
5	PROJECT THE EXECUTIVES WEB APPLICATION	Prof. Pallavi Patil	Computer Science and Engineering
6	MODI LIPI HAND WRITTEN CHARACTER RECOGNITION USING CONVOLUTIONAL NEURAL NETWORKS (CNN)	Prof.S.A.Babar	Computer Science and Engineering
7	SECURE FILE STORAGE AND TRANSFER USING CLOUD	Prof. Samrat Babar	Computer Science and Engineering
8	Solar Powered Electrical Vehicle	Yogesh Ramchandra Naik	Electrical
9	EV CHARGING STATION WITHOUT USING BATTERY	Mr. N. S. Jadhav	Electrical
10	ELECTRICAL ENERGY AUDIT OF "SANJEEVAN KNOWLEDGE CITY	Mr. V. T. Metkari	Electrical
11	Power Generation Through Vehicle Suspension and Regenerative Braking System in EV's	Mr. V. T. Metkari	Electrical
12	CALIBRATION OF 1-PHASE AND 3-PHASE ENERGY METER USING PID CONTROLLER	Mr. V. T. Metkari	Electrical
13	REVIEW ON WIND-SOLAR HYBRID POWER SYSTEM	Mr. A. M. Bhandare	Electrical
14	3PHASE FAULT DETECTION BY USING IOT	Mr. A. M. Bhandare	Electrical

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Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper
1	Prof. Rahul U.Urunkar	Hydrogen Fuel Cell Technology for Mobile Applications (pp.182-206)Chapter: 8	Hydrogen Storage Technologies and Related Heat and Mass Transfer Studies
2	Dr.Suhas S. Sapate	---	Review on pre-processing algorithm for breast density classification using digital mammograms
3	Dr.Suhas S. Sapate	---	Dynamic trust management for community based application using IoT
4	Dr.Suhas S. Sapate	---	A second order energy consumption model for improving performance of 802.15.4 MAC
5	Dr.Suhas S. Sapate	---	Disease detection on pomegranate fruits using machine learning approach
6	Dr.Suhas S. Sapate	---	Social distance monitoring at public places using YOLO V3 and euclidean distance
7	Prof. A. B. Chavan	Tribo-Corrosion Behaviour and Characterization of Biocompatible Coatings	Tribo-Corrosion Behaviour and Characterization of Biocompatible Coatings
8	Prof. A. B. Chavan	A review on surface coating techniques on Mg based biodegradable implants
9	Dr. G. C. Koli	Design and Analysis of a Gearless Multi angled Transmission system Employing variety of materials
10	Dr. G. C. Koli	Fundamentals of Micro-Electro Mechanical Systems & Its applications

15. Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., : 06

Sr. No.	Name of the activity	Organising unit/ agency/ collaborating agency
1	Tree Plantation (03/08/2022)	NSS
2	Felicitation of meritorious students (04/08/2022)	Sanjeevan Engineering & Technology Institute
3	Har Ghar Tiranga (12/08/2022)	NSS
4	Sanjeevan's 'Education for All' A Social Outreach Initiative (29/12/2022)	Sanjeevan Engineering & Technology Institute
5	Blood Donation Camp(13/03/2023)	Sanjeevan Engineering & Technology Institute
6	Polythene sheet distribution to the farmers for farm pond (21/04/2023)	Sanjeevan Engineering & Technology Institute

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Sr. No.	Name of the MoU / linkage	Name of the institution / industry with whom the MoU / linkage is made, with contact details
1	MOU with GTT Foundation	GTT Foundation, Pune
2	MOU with Friends Union for Engineering Lives (FUEL)	Friends Union for Engineering Lives (FUEL), bhugaon, Pune
3	MOU WITH M.S. INDUSTRIES	M.S. INDUSTRIES RS No. 595/2, Behind Kolhapur Axel, Near Samrat Engineering, Shirol MIDC Kolhapur 416122
4	MOU with Prudentia Technology Solution	Prudentia Technology Solution India Pvt. Ltd., Pune. 101, Piyusha Society, CTS No.47/ 13-B, Law college Road, Erandwane, Pune-411004
5	MOU with Tata Technologies, Pune	Tata Technologies, Pune
6	MOU with Walstar Technologies Pvt. Ltd., Kolhapur.	Walstar Technologies Pvt. Ltd., Kolhapur.
7	MOU with SIBIC	SIDDHAM INNOVATION AND BUSINESS INCUBATION CENTER.SIBIC
8	MOU with Big casting Pvt. Ltd.,	Big casting Pvt. Ltd., Plot No. 75 KIADB, Honaga Industrial area, Belgavi- 591113, Karnataka
9	MOU with Rubicon Skill Development Private Limited, Pune	Rubicon Skill Development Private Limited, Pune
10	MOU with Tambave Services, Kolhapur	Tambave Services, Kolhapur
11	MOU with Mahatma Phule Magaswargya Sahakari Sut Girmi Ltd. Vadgaon	Kailasir T-olver. 4th floor, Asserby Road, Kolirapu
12	MOU with Hari Om Flexipack Industries, Kolhapur	flGh
13	MOU with Wisdom Foundation, Kolhapur	Wisdom Foundation, Kolhapur
14	MOU with Yashswi Academy , Kolhapur	Yashswi Academy , Kolhapur
15	MOU with Symbiosis open education society	Symbiosis open education society, Pune
16	MOU with Seaquid technology india pvt. Ltd., Kolhapur	Seaquid technology india pvt. Ltd., Kolhapur
17	MOU with Walchand College of Engineering ,Sangli	Walchand College of Engineering ,Sangli
18	MOU with Info Grow, training Institute	Info Grow, training Institute
19	MOU with Deep industries, kagal- Hatkanagale	Deep industries, kagal- Hatkanagale
20	MOU with KPCO Machines, Gokul Shirgaon	KPCO Machines, Gokul Shirgaon
21	MOU with SPARKLAB , IT Solution Gadhinglaj	SPARKLAB , IT Solution gadhinglaj



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17. Student – Computer ratio- : 2.02

Number of computers available for students: **475**

18. Percentage of students benefitted by scholarships and free ships : **86.45 %** (830/960)

Name of the scheme	Government/Non-government	Name of the individual/organisation	Number of students benefitted
SC Scholarship	Government	Maharashtra Government DBT	105
ST Scholarship	Government	Maharashtra Government DBT	1
VJNT Scholarship	Government	Maharashtra Government DBT	67
SBC Scholarship	Government	Maharashtra Government DBT	10
OBC Scholarship	Government	Maharashtra Government DBT	89
Rajarshi Chhatrapati Shahu Maharaj Shikshan Shulkh Shishyavrutti Yojna	Government	Maharashtra Government DBT	558

19. Percentage of students benefitted by guidance for competitive examinations: **62.70 %**

Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution: **602**

Sr. No.	Name of Activity	Number of students Participated
1	Career Guidance on Entrepreneurship	125
2	Introduction to Civil Services Examination	87
3	Conducted Competitive Awareness Program for UPSC, MPSC, and SSC with test Series students 07-07-2023	110
4	Career Counselling & Guidance Program	280
Number of students benefitted by guidance for competitive examinations and career counselling		602



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20. Percentage of placement: 65.24

Number of outgoing students placed: **122**

Number of outgoing student's: **187**

Sr. No.	Program Name	Number of outgoing students placed	Average Pay package (In INR per annum)
1	Automobile Engineering	03	2.1
2	Civil Engineering	06	2.64
3	Computer Engineering	53	2.37
4	Electrical Engineering	42	1.78
5	Electronics and Telecommunication	--	--
6	Mechanical Engineering	18	1.91
Number of outgoing students placed		122	

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Sr. No.	Name of the award/ medal	Team / Individual	University/State/National/ International	Sports/ Cultural	Name of the student
1	Participation	Individual	Senior National	Swimming	Nikhil Nilesh Misal
2	Participation	Individual	University	Swimming	Nikhil Nilesh Misal
3	Participation	Team	University	Volleyball	Pruthviraj Pratap Gaikwad
4	Participation	Team	University	Volleyball	Sudesh Ramchandra Bahadure
5	Participation	Team	University	Volleyball	Anuja Anandrao Patil
6	Participation	Team	University	Volleyball	Shubhangi Suresh Shetake
7	Participation	Team	University(West Zone)	Hockey	Shivam Sujit Khopkar
8	Participation	Team	University(West Zone)	Hockey	Yashraj Anandrao Dinde
9	Participation	Team	University	Kabaddi	Vaishnavi Sanjay Patil
10	Participation	Team	University	Kabaddi	Senhal Nivruti Patil
11	Selection Trail	Individual	State	Swimming	Nikhil Nilesh Misal
12	Selection Trail	Individual	State	Hockey	Shivam Sujit Khopkar
13	Selection Trail	Individual	State	Hockey	Yashraj Anandrao Dinde
14	Selection Trail	Individual	State	Hockey	Tejas Shamrao Patil
15	Runnerup	Team	State	Kabaddi	Digvijay Chimasahab Patil
16	Winner	Team	State	Kabaddi	Vaishnavi Sanjay Patil
17	Winner	Team	State	Kabaddi	Senhal Nivruti Patil
18	Winner	Team	State	Kabaddi	Samruddhi Sudhir Sasavade
19	Runnerup	Team	State	Volleyball	Shivam Sujit Khopkar
20	Runnerup	Team	State	Volleyball	Sudesh Ramchandra Bahadure
21	Runnerup	Team	State	Volleyball	Pruthviraj Pratap Gaikwad
22	Winner	Team	State	Volleyball	Anuja Anandrao Patil
23	Winner	Team	State	Volleyball	Shubhangi Suresh Shetake
24	Winner	Team	State	Volleyball	Prachi Shivaji Patil
25	Winner	Team	State	Volleyball	Pranali Babasaheb Kumbhar
26	Winner	Team	State	Volleyball	Senhal Sunil Kashid



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22. Number of sports and cultural programs in which students of the Institution

Participate: **20**

Date of event/activity (DD-MM-YYYY)	Name of the event/activity	Name of the student participated
18/05/2023	SINGING	12
18/05/2023	DANCING	21
17/04/2023	Kabaddi(BOYS)	82
	Kabaddi(GIRLS)	
19/04/2023	Football(BOYS)	61
18/04/2023	Vollyball(BOYS)	83
	Vollyball(GIRLS)	
18/04/2023	Basketball(BOYS)	116
	Basketball(GIRLS)	
17&18/04/2023	Cricket(BOYS)	105
18/04/2023	Box Cricket(GIRLS)	
INDIVISUAL GAMES		
19/04/2023	Shotput throw(BOYS)	136
	Shotput Throw(GIRLS)	
	Disck Throw(BOYS)	
	Disck Throw(GIRLS)	
	Jawlin Throw(BOYS)	
	Jawlin Throw(GIRLS)	
17,19 & 19/04/2023	Chess(BOYS)	23
	Chess(GIRLS)	
17,19 & 19/04/2023	Carrom(BOYS)	25
	Carrom(GIRLS)	
Zonal		
2022-23	Kho-Kho(women)	23
	Kho-Kho(men)	
	Kabaddi (women)	18
	Kabaddi (men)	
	volleyball(women)	24
	volleyball(men)	
	Athletics	4



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HOLY-WOOD ACADEMY'S
SANJEEVAN

ENGINEERING & TECHNOLOGY INSTITUTE, PANHALA
Sanjeevan Knowledge City, Somwar Peth-Injole, Panhala, Tal. Panhala, Dist. Kolhapur.
Pin- 416 201 (Maharashtra) Phone : 9146999500

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23. Percentage of teaching staff participating in Faculty development Programmes organized by the institution:
33.33 %

Total number of teaching staff participating in Faculty development Programmes (FDP): 17

Sr. No.	Name of the Participant	Title of the FDP Program
1	Prof. S. B. Deshmukh	Research Paper Writing and Publishing
		Renewable Energy Sources for Sustainable Development
		Innovation, Research And IPR – Journey Towards Excellence
2	Dr. A. A. Katkar	Hybrid Electric Vehicles
		Outcome Based Education
		Renewable Energy Sources for Sustainable Development
		Recent Advancement in Heat Exchanger Technologies: Experimentation & Simulations
3	Prof. P. S. Atigre	Inclusive Procedures & Processes for NAAC Assessment and Accreditation
		Renewable Energy Sources for Sustainable Development
4	Prof. R. U. Urunkar	Renewable Energy Sources for Sustainable Development
5	Prof. S. P. Nangare	Renewable Energy Sources for Sustainable Development
6	Dr. G. C. Koli	Computer Integrated Manufacturing
7	Prof. A. C. Thoke	Innovation Research and Ipr- Journey towards Excellence
		Leveraging Research Challenges in Information Technology For Teaching Learning Process
8	Prof. A. C. Thoke	Smart Materai and Systems
		Emerging Technology in Infrastructure Development
9	Prof.P.D.Patil	Technological Advancement in Civil Engineering
		“ Emerging Trends in Artificial Intelligence and Machine Learning ”
10	Prof.S.A.Babar	“ Emerging Trends in Artificial Intelligence and Machine Learning ”
		Faculty Induction Program Over 200 hours
11	Prof. N.A. Magdum	Faculty Induction Program Over 200 hours
12	Mr. N. S. Jadhav	Outcome Based Education through Student Centric Teaching Learning Process
13	Yogesh R.Naik	Renewable Energy Sources for Sustainable Development
14	Mr. A. M. Bhandare	Cloud Infrastructure (AWS)
		Renewable Energy Sources for Sustainable Development
15	V.M.Ghewari	Renewable Energy Sources for Sustainable Development
16	V. T. Metkari	Renewable Energy Sources for Sustainable Development
17	Prof. A M Momin	Introduction to Structural Equation Modelling (SEM)



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24. Green Audit: Conducted Successfully and Certificate Received.

Observations and Conclusions:

This section gives the overviews of all the audits.

1. Water Section:

Institute has provision of rain water harvesting; hence huge amount of water is conserved and saved. Another good point is that the rain water collected at various section and is used to ground.

2. Wastewater Section:

SETI doesn't have any wastewater treatment facility till now as all the waste is directly sent to sewers. But the institute has planned for CWs i.e. constructed wetland systems for both the grey and black water treatment. Institute has also planned for hazardous waste management. The waste water generated through chemistry lab will also be treated and then led of onto sewers.

3. Solid waste management:

Proper method such as separate bins for wet waste and dry waste which leads to source segregation is followed by SETI.

4. E-waste:

Electronic waste is generated from many sections viz. physics lab, computer lab and applied science section. Institute collects the E waste centrally and is send to vendors for proper disposal means.

5. Sustainable water practices:

Institute has a fresh source of water i.e. river water. Water is recycled and used.

6. Energy:

Institute has followed good means by installing sustainable source of energy viz. solar energy and wind power generation. They have taken good measures by installing LED lights and solar sensor lights in the campus which are proving to be energy efficient.

Light Load Calculation

- Total light load connected in the institution = **42420 Watt**
- LED load connected in the institution = **34270Watt**
- Light load other than LED = **8150 Watt**
- Percentage of Led lights in the institution out of total light load = $(34270/42120) * 100$
= **80.28%**



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Alternative Energy initiatives such as:

1. Percentage of annual power requirement of the Institution met by the renewable energy sources

Power Requirement met by Renewable energy sources	Total Power requirement	Renewable energy sources	Renewable energy generated and used	Energy Supplied to the grid
Generated 90000 KWH and Remaining Installation under process	559392KWH	Solar & Wind Hybrid	installed	NIL
		Solar PV panel	Installation Under Process	NIL

Alternative Energy Sources:

A] Present energy generation by renewable energy sources:

I) solar power plant capacity: 70 kW

II) Hybrid (Solar + Wind) power plant capacity: 50 kW

Total Capacity: 70kW + 50kW = 120 kW

Total Energy generation by both plants from 1st Apr 2022 to 31st March 2023 is 90000 KWH

Total Energy requirement from 1st Apr 2022 to 31st March 2023 is KWH

Percentage of energy met by the renewable energy sources as per same year Energy requirement

: $(90000\text{KWH}/559392\text{KWH}) * 100$

=16.08%



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B) Proposed energy generation by renewable energy sources

I. Solar power plant proposed capacity: 182 kW

Approximately power generation by same plant is 196560 KWH

Total power will be generated by the whole renewable sources in a year is 326160 kWh

Percentage of energy will be met by the renewable energy sources

$$= (326160\text{KWH}/559329\text{KWH}) * 100$$
$$= 58.31\%$$

SETI Campus Monthly Demands / Units Data

Sr.No.	Month /Period	Max Demand IN KVA	Power Factor	Total No.of Unit
1	Apr-22	156	0.996	38,749
2	May-22	156	0.992	30,616
3	Jun-22	156	0.994	38,508
4	Jul-22	156	0.998	61,325
5	Aug-22	156	0.996	55,957
6	Sep-22	156	0.992	42,201
7	Oct-22	156	0.993	43,564
8	Nov-22	156	0.995	43,284
9	Dec-22	156	0.993	53,421
10	Jan-23	156	0.996	50,340
11	Feb-23	156	0.996	49,726
12	Mar-23	156	0.996	51701
		Average Value in KVA=156	0.995	Annual Unit Consumed During period of APR 2022 To Mar 2023 =559392 units

Dr. G. C. Koli
Dean IQAC

Submitted to: Principal