



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 2019-20

By- IQAC

1. ACADEMIC INFORMATION

Program code	Course code	Course Name	Year of introduction	Sanctioned intake
UG				
EN6315	631560210	Automobile Engg	2010	60
	631519110	Civil Engg	2009	60
	631524210	Computer Sci & Engg	2009	60
	631529310	Electrical Engg	2010	60
	631537210	Electronics & Telecommunication Eggg	2009	30
	631561210	Mechanical Engg	2009	120
PG				
ME6315	631537210	E&TC Engg	2012	09
	631590410	Mech Engg Design	2012	09

2. Students: A.Y. 2019-20 Number of student's Branch wise: Total Strength: 1151

Branch	First Year	Second year	Third Year	Final Year	M. Tech
Automobile Engg	05	32	33	16	--
Civil Engg	19	68	89	64	--
Computer Sci & Engg	31	68	52	27	--
Electrical Engg	12	69	101	57	--
Electronics & Telecommunication Eggg	10	60	29	21	02
Mechanical Engg	06	69	115	81	15

3. Teachers : Number of teaching staff / full time teachers: 80

Designation	Total
Professor	01
Associate Professor	04
Assist. Professor	75

Branch	Number of Teachers
Mechanical Engineering	21
Computer Science Engineering	08
Civil Engineering	12
Electrical Engineering	10
Electronics & Telecommunication Engg.	12
Automobile Engineering	08
General	09
Total	80

4. Number of students enrolled in Certificate/ Value added courses: 81

Name of Add on /Certificate /Value added programs offered and online MOOC programs like SWAYAM, NPTEL etc. programs offered	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
Induction Programme	2019-20	13th August-21 August 2019	One Week	81	81

5. Percentage of students undertaking project work/field work/ internships: 26.93 %

 Number of students undertaking project work/field work / internships: **310**

Sr. No.	Branch	Project Phase I & II & Internship
1	Mechanical Engineering	79
2	Computer Science Engineering	68
3	Civil Engineering	89
4	Electrical Engineering	66
5.	Electronics & Telecommunication	08

6. Enrolment percentage : 23.52 %

 Number of seats filled (first year admissions): **96**

 Number of sanctioned seats: **408**

Programme name	Programme Code	Number of Students admitted	Number of seats sanctioned
Automobile Engg	631560210	60	5
Civil Engg	631519110	60	19
Computer Sci & Engg	631524210	60	34
Electrical Engg	631529310	60	12
Electronics & Telecommunication Egge	631537210	30	10
Mechanical Engg	631561210	120	6
M.Tech Mech Engg Design	631590410	9	9
M.Tech E&TC Engg	631537210	9	1
Total Admitted Students		408	96

7. Percentage of seats filled against reserved categories (SC, ST, OBC etc.) first year admission: 23.64 %

Number of actual students admitted from the reserved categories: **48**

Programme name	Programme Code	SC	ST	OBC	Others
Automobile Engg	631560210	1	0	0	1
Civil Engg	631519110	3	0	3	5
Computer Sci & Engg	631524210	2	0	5	6
Electrical Engg	631529310	3	0	2	4
Electronics & Telecommunication Eggg	631537210	1	0	0	3
Mechanical Engg	631561210	0	0	0	5
M.Tech Mech Engg Design	631590410	2	0	1	1
M.Tech E&TC Engg	631537210	0	0	0	0
Number of actual students admitted from the reserved categories		48			

8. Number of seats earmarked for reserved category as per GOI/ State Govt rule: 203

Programme name	Programme Code	SC	ST	OBC	Others
Automobile Engg	631560210	9	4	11	6
Civil Engg	631519110	9	4	11	6
Computer Sci & Engg	631524210	9	4	11	6
Electrical Engg	631529310	9	4	11	6
Electronics & Telecommunication Eggg	631537210	5	2	5	3
Mechanical Engg	631561210	18	8	22	12
M.Tech Mech Engg Design	631590410	2	0	1	1
M.Tech E&TC Engg	631537210	2	0	1	1
Number of seats earmarked for reserved category as per GOI/ State Govt rule		203			

9. Student Teacher Ratio

Student – Full time Teacher Ratio: 14.38 %

Number of Students	1151
Number of Teacher	80

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: **07**

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	Dr. Mohan B. Vanarotti	Ph.D
2	Dr. Siddappa I. Bekinal	Ph.D
3	Dr. Ghodake Shivaji Laxman	Ph.D
4	Dr. Sringeri Arvindkumar Ganeshaiiah	Ph.D
5	Dr. Jadhav Sharad Tukaram	Ph.D
6	Dr. Patil Vishal Arun	Ph.D
7	Dr. Potdar Sachin Sitaram	Ph.D

11. Passing Percentage of final year students: 99.45 %

Number of final year students who passed the university examination: **262**

Number of final year students who appeared for the university examination: **264**

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	15	15	100
2	Civil Engineering	631519110	63	64	98.43
3	Computer Engineering	631524210	26	26	100
4	Electrical Engineering	631537210	56	57	98.24
5	Electronics and Telecommunication	631529310	21	21	100
6	Mechanical Engineering	631561210	81	81	100
Number of final year students			262	264	99.45

12. Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship: 01

Sr. No.	Name of the workshop/ seminar/ conference	Number of Participants
1	One Day Workshop on Role of IPR for Revenue Generation	52

13. Research Publications and Awards:

Number of research papers published: 06

Title of paper	Name of the author/s	Department of the teacher
Breast cancer diagnosis using abnormalities on ipsilateral views of digital mammograms	Dr. Suhas G. Sapate	Computer Science and Engineering
Heterogeneous composites for low and medium temperature thermal insulation: A review	Dr. S. S. Potdar, and Dr. V. S. Patil	Basic Sciences & Humanities
Facile synthesis of Nanodiced SnO ₂ -ZnO composite by chemical route for gas sensor application	Dr. Mohan Vanarotti	mechanical
Influence of bath temperature on microstructure and NH ₃ sensing properties of chemically synthesized CdO thin films	Dr. S.S. Potdar	Basic Sciences & Humanities
A novel FRET probe for determination of fluorescein sodium in aqueous solution: analytical application for ophthalmic sample	Dr. S.S. Potdar	Basic Sciences & Humanities
	Dr. Vishal A. Patil	Basic Sciences & Humanities

14. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings: 01

Sl. No.	Name of the teacher	Title of the book/chapters published	Title of the paper
1	Prof. Vanmore V.V.	--	Development of fluidized mixing chamber to optimize process parameters for Micro Abrasive Jet Machining

15. Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., : 21

Sr. No.	Name of the activity	Organising unit/ agency/ collaborating agency
1	Yoga Day (21/06/2019)	NSS
2	Gandhi Jayanti (02/10/2018)	NSS
3	Yoga Day	NSS
4	National Sports Day (29/08/2019)	NSS
5	Passport and PAN card camp (26/02/2020)	NSS
6	Account opening in Indian post payment bank (11/03/2020)	NSS
7	Campus Clean	NSS
8	Cleaned school campus(23/01/2020)	NSS
9	Shramdhan Shibhir (16/01/2020)	NSS
10	Plastic Free Panhala (17/7/2019)	NSS
11	cleaned mahadev temple (09/02/2020)	NSS
12	Cleaned ground (08/01/2020)	NSS
13	Cleaned sambhaji maharaj temple (10/10/2019)	NSS
14	Police mitra(18/02/2020)	NSS
15	Blood Donation Camp (13/03/2020)	NSS
16	Cleaned Somwar peth (6/09/2019)	NSS
17	Savrewadi Cleaning	NSS
18	swatchha bhara Abhiyan	NSS
19	Shramdan Shibir at Ghungurwadi	NSS
20	NSS Formation	NSS
21	Yoga Day (21/06/2018)	NSS

16. Number of functional MoUs/linkages with institutions/ industries : 01

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 Tata Technologies, Pune	Tata Technologies, Pune

17. Student – Computer ratio- : 1.78

 Number of computers available for students: **645**
18. Percentage of students benefitted by scholarships and free ships : 78.54 % (904/1151)

Name of the scheme	Government/Non-government	Name of the individual/organisation	Number of students benefitted
SC Scholarship	Government	Maharashtra Government DBT	115
ST Scholarship	Government	Maharashtra Government DBT	0
VJNT Scholarship	Government	Maharashtra Government DBT	65
SBC Scholarship	Government	Maharashtra Government DBT	9
OBC Scholarship	Government	Maharashtra Government DBT	126
Rajarshi Chhatrapati Shahu Maharaj Shikshan Shulkh Shishyavrutti Yojna	Government	Maharashtra Government DBT	589

19. Percentage of students benefitted by guidance for competitive examinations: 13.46 %

 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution: **155**

Sr. No.	Name of Activity	Number of students Participated
1	Preparation of Civil Services	155

20. Percentage of placement: 10.70

Number of outgoing students placed: **29**

Number of outgoing student's: **271**

Sr. No.	Program Name	Number of outgoing students placed	Average Pay package (In INR per annum)
1	Electrical Engineering	13	1.44
2	Electronics and Telecommunication	01	1.44
3	Mechanical Engineering	15	1.44
Number of outgoing students placed		29	1.44

21. Student Participation and Activities (Sports & Cultural):

Number of awards/medals for outstanding performance in sports/cultural activities: **05**

Sr. No.	Name of the award/ medal	Team / Individual	University/State/National/ International	Sports/ Cultural	Name of the student
1	Participation	Team	University	Football	Akshay Tanaji Patil
2	Participation	Team	University	Kabaddi	Sumit Sudhakar Mensagare
3	Participation	Team	University	Kabaddi	Shubham Babasaheb Gawade
4	Participation	Team	University	Volleyball	Kshitij Krishnath Powar
5	Participation	Team	University	Volleyball	Viraj Shrikant Rane

22. Number of sports and cultural programs in which students of the Institution Participate: 37

Date of event/activity (DD-MM-YYYY)	Name of the event/activity	Number of participated students
Shivaji University, Kolhapur (Zonal Tournament)		
26-09-2019	Badminton	5
30-09-2019	kabaddi Boys	12
16-10-2019	Vollyball Boys	12
24-09-2019	Kho- Kho Boys	12
28-08-2019	Swimming	4
17-10-2019	Football	16
18-09-2019	Basketball Boys	12
09/09/2019	Chess	5
23-11-2019	Cricket	16
10/09/2019	Athletics Boys (Javelin Throw)	6
TOTAL PLAYERS =		100



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Shivaji University, Kolhapur (Lead College Tournament)		
18/02/2020	Swimming	6
30/01/2020	Body Building	2
18/02/2020	Vollyball Boys	12
18/02/2020	vollyball Girls	9
02/07/2020	Hockey	16
13/02/2020	Basketball Boys	12
13/02/2020	Cricket	16
02/05/2020	Football	18
17/02/2020	Chess	4
02/10/2020	Athletics	5
29/01/2020	Kho- Kho	12
02/12/2020	Kabaddi Boys	12
	TOTAL PLAYERS=	124 PLAYERS

ANNUAL SPORTS 2019-20		
Year	Event	Number of participated students
2019-20	VOLLEYBALL(B)	95
	VOLLEYBALL(G)	
	BASKETBALL(B)	35
	BASKETBALL(G)	
	KABBADI(B)	97
	KABBADI(G)	
	CRICKET	59
	FOOTBALL	74
	ATHELETICS	153
	CARROM SINGLE (B)	99
	CARROM DOUBLE (B)	
	CARROM SINGLE (G)	
	CARROM DOUBLE (G)	
	CHESS(B)	30
CHESS(G)		



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23. Percentage of teachers provided with financial support to attend conferences/workshops: 3.75
Number of teachers provided with financial support to attend conferences/workshops: 03

Sr. No.	Name of teacher	Name of conference/ workshop attended for which financial support provided
1	Mr. Gavade Ajit Balaku	International conference IIT Varanasi
2	Mr. Swpnil V. Vanmore	Registration fee IEEE conference ICICCS
3	Mr. Sachin Jadhav	International conference

24. Percentage of teaching staff participating in Faculty development Programmes organized by the institution: 32 %

Total number of teaching staff participating in Faculty development Programmes (FDP) : **25**

Sr. No.	Name of the participant	Title of the FDP /MDP/ professional development / administrative training program
1	Mr. Sachin K. Pisal	Online Faculty Development Program on Renewable Energy Sources: A Way Ahead
2	Prof.M.M.Hajare	BOSS Linux Training
		Python Programming
		Machine Learning & AI using Python
		Mobile Application Development using Swift & iOS
3	Prof.K.B.Kari	“Artificial Intelligence : an Industry Perspective”
		“Python Basics,Machine Learning & Blockchains”
		“Artificial Intelligence and its Applications”
		“ICT Based Teaching & Learning”
4	Prof.P.D.Patil	“Artificial Intelligence with Data Science”
		“Simple Application Creation on Different Platforms using Multi-tier Architecture
		“Artificial Intelligence and its Applications”
		“Python Basics,Machine Learning & Blockchains”
		“Python 3.4.3”
		“PHP and My SQL”
5	Prof.S.A.Babar	“Python Basics,Machine Learning & Blockchains”
		“Artificial Intelligence with Data Science”
6	Prof.R.S.Nejkar	“BOSS Linux 3.4.2 Operating System”



Sr. No.	Name of the participant	Title of the FDP /MDP/ professional development / administrative training program
7	Suraj N Shinde	PYTHON WITH SPOKEN TUTORIAL IIT BOMBAY
8	Swapnil V.Vanmore	Latex
9	Chetan R.Dongarsane	Latex
		Faculty Development Programme On Arduino
10	Mr. V.T.Metkari	One Week Workshop on "Recent Trends in Power Systems"
11	Mr. Y.R.Naik	One Week Workshop on "Power Quality & Reactive Power Management "
		One Week Workshop on "IoT & Its Applications in Industry"
12	Mr. N.S.Jadhav	One Week Workshop on "Intro; to Outcome based education & Enhancing Quality of Teaching Learning Process"
13	Dr. Vishal A. Patil	Digitizing Engineering Graphics
14	Dr. S.S. Potdar	Usage of Technology in 'COVID 19'
		Use of ICT in Teaching Learning
		Latex
15	Mrs. A.A. Kulkarni	PYTHON 3.4.3
		Outcome Based Education for Enhancing Quality of Teaching Learning Process
		Mathematics Practical Approach in Science & Technology
16	Mr. A. B. Chavan	Enhancing Research and Consultancy Skills
		Research Challenges and Innovations in Renewable Energy Systems
17	Mr. D. V. Patil	Futuristic Technologies in Mechanical Industries
18	Mr. G. C. Koli	Comprehensive Study of NAAC Criteria in RAF
		Introduction to Outcome Based Education and Enhancing Quality of Teaching Learning Process
		Research Opportunities and Challenges in Manufacturing Sector
19	Mr. G. C. Koli	Design and Analysis of Machine Elements with solid work
		PYTHON 3.4.3
		Present Trends & Research in Electric Vehicles



Sr. No.	Name of the participant	Title of the FDP /MDP/ professional development / administrative training program
20	Mr. P. S. Atigre	Enhancing Research and Consultancy Skills
		Renewable Energy and Utilization
21	Mr. S. B. Deshmukh	Renewable Energy and Utilization
22	Dr. S. G. Arvindkumar	Renewable Energy and Utilization
23	Mr. S. B. Deshmukh	Overcoming the Challenges in Adapting Online Technology in Teaching Learning
		Technical Teacher's Training
		Manufacturing and Analysis of Advanced Materials & Engineering
		Use of ICT in Teaching Learning (Regional Language)
		Advanced Teaching Tools, Techniques and Methodologies for Outcome Based Education
		Applications of Finite Element Analysis (FEA) and Computational Dynamics (CFD) using ANSY
		Future Materials: Nanocomposites
		Solar Energy & its Applications in Indian Scenerio after COVID-1
		Research Opportunities in Advanced Manufacturing Processes
		Futuristic Technologies in Mechanical Industries
		Research Opportunities and Challenges in Manufacturing Sector
Renewable Energy: Application & Entrepreneurship		
24	Dr. S. G. Arvindkumar	Environmental Sustainability & Green Energy
		Trends & Practices in Refrigeration & Air Conditioning
25	Mr. V. H. Deokar	Spoken Tutorial Technology
		Artificial Intelligence
		INNOVATIVE TRENDS IN ENGINEERING AND TECHNOLOGY
		Opportunities & Challenges in Electronics & Allied Industries in India post COVID-19
		LaTeX
		MATLAB based Teaching-Learning in Mathematics, Science & Engineering
		Advanced Optimization Tools & Techniques in for Researchers & Engineers



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25. Energy Audit:

An energy audit is an inspection survey and an analysis of energy flows for energy conservation in a building. It may include a process or system to reduce the amount of energy input into the system without negatively affecting the output. In commercial and industrial real estate, an energy audit is the first step in identifying opportunities to reduce energy expense and carbon footprint.

A nation is tiring to advance in quantity and quality to the spread of education among the common India and development of their intelligence. In India the entire field of education and other fields of intelligent activities had been monopolized by a handful of men before independence. But today we are marching towards the desirable status of a developed nation with fast strides. But the development should be a sustained one. For achieving such an interminable development energy management is essential. As far as concerning electricity crisis, we are facing lack of electricity during office work. So, institutional management is taking design regarding production of electricity and saving electricity for Eco social aspect. Energy requirement of India is growing and incomplete domestic fossil fuel treasury. The country has motivated strategy to enlarge its renewable energy resources and policy to establish the nuclear power plants. India increases the involvement of nuclear power to largely electrical energy development facility from 4.2% to 9%. India's industrial demand accounted for 35% of electrical power requirement, domestic household use accounted for 28%, agriculture 21%, commercial 9%, and public lighting and other miscellaneous applications accounted for the rest. Energy conservation means reduction in energy consumption without making any sacrifice of quantity or quality. A successful energy management program begins with energy conservation; it will lead to adequate rating of equipment's, using high efficiency equipment and change of habits which causes enormous wastages of energy. By observing all these study lack of electricity and huge electricity demands. It is necessary to plan to be self-sufficient in electricity requirement.



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Use of LED bulbs:

Institute has total light load connection of : 46500 watts

LED load connection is: 32300 watts

Light load other than LED: 14200 watts

Percentage of LED use in institute: 69.46%

Alternative methods of energy:

Solar power plant at SETI

Capacity of plant: 70kw

Hybrid grid: (Solar + Wind): 50kw

Total capacity: $70+50 = 120$ kw

Dr. G. C. Koli
Dean IQAC

Submitted to: Principal