

Late Chindhuji Laxmanrao Purke Shikshan Prasarak Mandal's



INDIRA GANDHI KALA MAHAVIDYALAYA
Ralegaon, Dist- Yavatmal, Maharashtra

Affiliated to

Sant Gadge Baba Amravati University, Amravati



2nd Cycle

Assessment & Accreditation by NAAC

Criteria-VII

Institutional Values and Best Practices

Key Indicator -7.2
Best Practices



Late Chindhuji Laxmanrao Purke Shikshan Prasarak Mandal's Yavatmal

A GANDHI KALA MAHAVIDYALAYA, RALEGAON

DIST. YAVATMAL (445402)

(Affiliated to Sant Gadge Baba Amravati University College Code-490)

(DD Code - 06610100121)

President

Principal

www.igkmralegaon.org

Mob No. - 9920997275

Mob. No-9373778210

Hon' Prof. Shri Vasantao C. Purke

Dr. Santosh V. Agarkar

E-mail - igkm490@gmail.com

Website -

Date: 12/07/2024

Declaration


The information, reports, true copies of the supporting documents, numerical data, etc.

related to the NAAC process furnished in this file is verified by IQAC and found correct.

Hence this certificate.


Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Ralegaon




PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

Best Practice 1

Eco-Friendly Awareness among tribal and rural students

1. Objectives of the practice

- To integrate eco-friendly concepts into the academic curriculum so that students receive formal education in sustainable practices.
- To facilitate hands-on learning experiences, such as practical workshops and field visit to provide students with tangible experiences in environmental conservation.
- Foster community engagement by involving students in local eco-friendly initiatives, such as tree planting, waste management, and conservation projects.
- To educate students about the importance of eco-friendly practices and their impact on the environment by conducting awareness campaigns within schools and local communities
- To encourage resource conservation habits among students, emphasizing the responsible use of water, energy, and other natural resources in their daily lives.
- To integrate traditional tribal and rural knowledge about sustainable living practices into the curriculum, emphasizing the importance of preserving cultural ties with the environment.
- To provide students with practical skills in areas such as organic farming, renewable energy, and waste management, empowering them to contribute actively to sustainable development.
- To organize and participate in events that celebrates eco-friendly festivals , such as earth day, eco-friendly rakhi and eco-friendly holi to reinforce the importance of sustainability in students' minds.

2. The Context

In recent years, there has been a commendable surge in eco-friendly awareness among tribal and rural students, marking a significant stride toward sustainable practices. Our College has actively embraced best practices to instill environmental consciousness, fostering a generation of students attuned to the importance of ecological preservation. Initiatives such as incorporating eco-friendly curriculum modules, organizing tree plantation drives, and promoting waste reduction campaigns have become integral components of these educational programs. This concerted effort not only nurtures environmental stewardship but also empowers tribal and rural communities to play a vital role in shaping a greener and more sustainable future.

3. The Practices

Sustainable eco-friendly integrations

Conducted eco-friendly festivals such Eco-friendly holi ,eco-friendly rakhi and also conducted Certificate course in organic farming through which students received formal education on environment sustainability.

Celebration of Ecofriendly Holi on 23/03/2024



देशोन्नती

इंदिरा गांधी महाविद्यालयात पर्यावरण पूरक होळी



देशोन्नती वृत्तसंकलन...

राळेगाव ■ इंदिरा गांधी महाविद्यालय, राळेगाव येथे वनस्पतीशास्त्र व धूप यांच्या संयुक्त विद्यमानाने पर्यावरणपूरक होळी चे आयोजन करण्यात आले. यामध्ये विद्यार्थ्यांनी नैसर्गिक साधनांचा वापर


करून विविध रंग बनविले ते रंग हळद, पळस, पालक, गुलाब, बीट, विविध झाडाची पाने, फुले इत्यादी पासून नैसर्गिक पद्धतीने बनवण्यात आले. तसेच त्या रंगांचे विद्यार्थ्यांमध्ये वाटप सुद्धा करण्यात आले. प्रस्तावना निलेश देशमुख यांनी मांडला. कार्यक्रमाचे अध्यक्ष महाविद्यालयाचे

प्राचार्य डॉ. एस. व्ही. आगरकर यांनी धुलिवंदनाच्या दिवशी नैसर्गिक रंगांच्या वापर पर्यावरण पूरक कसा आहे यावर प्रकाश टाकला व पर्यावरण पूरक होळी साजरी करण्याचे आवाहन केले. डॉ. अलफ्रेड शेख, प्रा. सतीश जाधव, यांनीसुद्धा पर्यावरण पूरक होळी साजरी करण्याचे महत्त्व पटवून दिले यामध्ये महाविद्यालयाच्या विद्यार्थ्यांनी तसेच शिक्षकांनी सहभाग नोंदवला. यशस्वीते करीता एम.व्ही. बानखडे, यांनी प्रश्रम घेतले. (ता.प्र.)

Source: VRTI Edition
Mar. 20, 2024 Page No. 4


Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Ralegaon





PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

Celebration of Ecofriendly Holi on 06/03/2023




Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Ralegaon




PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

Celebration of Ecofriendly Holi on 21/03/2022



देशोपवर्ती

इंदिरा गांधी कला महाविद्यालय राळेगाव येथे पर्यावरण पूरक होळी




देशोपवर्ती वृत्तसंकलन...

राळेगाव = इंदिरा गांधी महाविद्यालय, राळेगाव वनस्पतीशास्त्र, गुरुवैज्ञानिक विभाग व IQAC यांच्या संयुक्त विद्यमानाने पर्यावरणपूरक होळी येथे आयोजन करण्यात आले. यातमध्ये विद्यार्थ्यांनी नैसर्गिक रंग बनविले ते रंग हळद, फळस, पालक, गुलाब, बीट, इत्यादी पासून नैसर्गिक पद्धतीने बनवण्यात आले. तसेच त्या रंगांचे विद्यार्थ्यांमध्ये वाटप सुद्धा करण्यात आले. या कार्यक्रमाचे अध्यक्ष

महाविद्यालयाचे प्राचार्य डॉ. एस. बी. आगरकर यांनी शुद्धिवंदनाच्या दिवशी नैसर्गिक रंग बनवून होळी साजरी करण्याचे आवाहन केले तसेच वि.डी. समर्थ, व.एन. एम. देशमुख यांनी सुद्धा नैसर्गिक पर्यावरण पूरक होळी करण्याचे महत्त्व पटवून दिले. यातमध्ये महाविद्यालयाच्या विद्यार्थ्यांनी तसेच शिक्षक व शिक्षकेतर कर्मचाऱ्यांनी सहभाग नोंदवला. कार्यक्रमाच्या यशस्वीते करिता एम.बी. वानखडे, यांनी परिचय घेतले. (सा.प्र.)


Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Ralegaon





PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

Celebration of Ecofriendly rakhi on 29/08/2024




Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Ralegaon




PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

Certificate Course in Organic Farming 2021-22

Late Chindhuji Laxmanrao Purke Shikshan Prasarak Mandal, Yavatmal's
INDIRA GANDHI KALA MAHAVIDYALAYA, RALEGAON, 445402
Department of Botany
e-Certificate Course in Organic Farming
2020-2021

About Course

Course Detail:

- The course contain five units.
- Course will be conduct through online mode during the period of 22/07/2021 to 31/07/2021.
- The course will be of 20 Hours
- There will 10 online lectures of 2 hours each
-

Eligibility Criteria: Students enrolled to B.A. and B.Sc. are eligible.

Duration: 10 Days (20 Hours)

Intake Capacity: 30

Fee Structure: Nil

Exam Scheme:

- * Exam will be set on first three units from the syllabus having of 60 marks.
- * Exam will consist one theory paper of having MCQ type of 50 marks and Internal Assessment of having 10 marks.
- * There will be 25 questions in MCQ type of having two mark each.
- * The internal assessment marks shall be provided on the basis of assignment (Practice/Activity) submitted by candidates

The Whole Examination scheme shall be as-

Sr. No.	Examination Scheme				Grading
1	Maximum marks for theory exam	Maximum marks for internal Assessment	Total Marks	Maximum marks for passing	40%-55% C Grade 56%-75% B Grade >75 A Grade

Schedule for Online Certificate Course:

Online Theory Classes	Date	Time
	22/07/2021 To 31/07/2021	3PM To 5PM
Assignment Submission	31/07/2021	Up to 11.59 PM
Exam	31/07/2021	3 PM To 4 PM

Instruction To Candidates:

1. Candidate should join the Teachmint classroom ID 452298329
2. Attendance is must to receive e-certificate.
3. Separate Google form link will be provided for online exam
4. e-Certificate will be given after completion of certificate course with minimum passing of 40%.
5. After filling your feedback form, you will receive your e-Certificate within next 3 days.

Dr. D. W. W. S.
Assistant Professor
Department of Botany
Indira Gandhi Kala Mahavidyalaya
Ralegaon

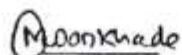
[Signature]
Head
Department of Botany
Indira Gandhi Kala Mahavidyalaya
Ralegaon

Late Chindhuji Laxmanrao Purke Shikshan Prasarak Mandal, Yavatmal's
INDIRA GANDHI KALA MAHAVIDYALAYA, RALEGAON, 445402

Department of Botany
e-Certificate Course in Organic Farming
2020-2021

Student List

Sr.No.	Name of the Student	Class	Contact No.
1	Achal A Sonwane	B.Sc III	8390306320
2	Arti Ashok Ladhe	B.Sc II	9529530528
3	Bhagyshri Santoshrao botare	B.Sc I	8766847925
4	Bhumika Dhanraj Neet	B.Sc III	9022439327
5	Diksha Namdevrao Hajare	B.Sc III	9284498723
6	Ganesh Golkar	B.Sc III	8975309573
7	Neha pravinrao Gonde	B.Sc I	9322639762
8	Nikita Dhanraj Umate	B.Sc III	9067584596
9	Payal Ambadasji Sonwane	B.Sc II	9373286514
10	Pranjali Nanaji Ghode	B.Sc III	9309730941
11	Prashik Sanjay Fulmali	B.Sc III	9881930201
12	Pratiksha mahadev kasare	B.Sc II	7499225361
13	Rahul Ramkrushan khangare	B.Sc I	8459230831
14	Roshan Wasudeo deotale	B.Sc III	7620626584
15	Samiksha Rajeshwarrao Nishane	B.Sc I	8698417312
16	Sonu Rupesh More	B.Sc III	9284622114
17	Suraj rameshrao kannake	B.Sc II	8459948049
18	Suwarna Pandurang Uge	B.Sc II	9673138023
19	Tanaya maroti kadu	B.Sc II	9607596685
20	Tanzeela Tabassum Sayyed Nasir	B.Sc III	8421856890
21	Yogini Bhoyar	B.Sc III	8766852459



Course Coordinator

Assistant Professor

Department of Botany

Indira Gandhi Kala Mahavidyalaya
Ralegaon



Head

Department of Botany

Indira Gandhi Kala Mahavidyalaya
Ralegaon

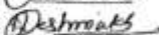
Late Chindhuji Laxmanrao Purke Shikshan Prasarak Mandal, Yavatmal's
INDIRA GANDHI KALA MAHAVIDYALAYA, RALEGAON, 445402
 Department of Botany
 e-Certificate Course in Organic Farming
 2020-2021

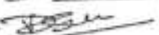
Attendance

Sr. No	Name of the student	Date												No. of lectures Conducted	No. of lectures Attended	% of Attendance
		22/7/21	23/7/21	24/7/21	25/7/21	26/7/21	27/7/21	28/7/21	29/7/21	30/7/21	31/7/21	01/8/21				
1	Achal A Sonwane	P	P	P	P	P	P	P	P	P	P	P	11	10	90.90	
2	Arti Ashok Ladhe	-	P	P	-	P	P	P	P	P	P	P	11	09	81.81	
3	Bhagyshri santoshrao botare	P	P	P	P	P	P	P	P	P	P	P	11	10	100	
4	Bhumika Dhanraj Neet	P	P	P	P	P	P	P	P	P	P	P	11	11	100	
5	Diksha Namdevrao Hajare	P	P	P	P	P	P	P	P	P	P	P	11	10	90.90	
6	Ganesh Golkar	P	P	P	P	P	P	P	P	P	P	P	11	10	90.90	
7	Neha pravinrao Gonde	P	P	P	P	P	-	P	P	P	P	P	11	10	90.90	
8	Nikita Dhanraj Umate	P	P	P	P	P	P	-	P	P	P	P	11	10	90.90	
9	Payal Ambadasji Sonwane	P	-	P	P	P	-	P	P	P	P	P	11	09	81.81	
10	Pranjali Nanaji Ghode	P	P	P	P	P	P	P	-	P	P	P	11	10	90.90	
11	Prashik Sanjay Fulmali	-	P	-	-	-	P	P	-	P	P	P	11	06	54.54	
12	Pratiksha mahadev kasare	P	-	P	P	P	P	P	P	P	-	P	11	10	90.90	
13	Rahul Ramkrushan khangare	P	P	P	P	P	-	P	P	P	P	P	11	10	90.90	
14	Roshan Wasudeo deotale	-	P	P	-	P	P	P	-	P	P	P	11	08	72.72	
15	Samiksha Rajeshwarrao Nishane	P	P	P	P	P	P	P	P	P	P	P	11	11	100	
16	Sonu Rupesh More	P	-	P	P	-	P	P	P	P	P	P	11	09	81.81	
17	Suraj rameshrao kannake	P	-	-	P	P	P	P	P	P	P	P	11	08	72.72	
18	Suwarna Pandurang Uge	-	P	P	P	P	-	P	P	P	-	P	11	08	72.72	
19	Tanaya maroti kadu	P	-	P	P	-	P	P	-	P	P	P	11	08	72.72	
20	Tanzeela Tabassum Sayyed Nasir	P	P	P	P	P	P	P	P	P	P	P	11	11	100	
21	Yogini Bhoyar	P	P	P	P	P	P	P	P	P	P	P	11	11	100	

Classes conducted and attendance collected through Teachmint app having classroom ID 452298329

Signature of Teacher's 1. 

2. 


3. 


 Course Coordinator
 Assistant Professor
 Department of Botany
 Indira Gandhi Kala Mahavidyalaya
 Ralegaon


 Head
 Department of Botany
 Indira Gandhi Kala Mahavidyalaya
 Ralegaon


 Co-ordinator
 Internal Quality Assurance Cell
 Indira Gandhi Kala Mahavidyalaya
 Ralegaon




 PRINCIPAL
 Indira Gandhi Kala Mahavidyalaya
 Ralegaon Dist. Yavatmal

Waste Management Programs

College has implemented waste management system that educates students about proper disposal methods recycling and the reduction of single use plastics.




Solid Waste Management



Liquid Waste Management


Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Ralegaon




PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

Tree Plantation Drives

College organized regular tree plantation drives to instill a sense of responsibility for afforestation and environmental conservation among students.



Adoption of plant by faculty



Plantation Drive in college Campus and adoption by students



Adoption of plant by students

[Signature]
Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Ralegaon



[Signature]
PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal



[Signature]
 Co-ordinator
 Internal Quality Assurance Cell
 Indira Gandhi Kala Mahavidyalaya
 Ralegaon



[Signature]
 PRINCIPAL
 Indira Gandhi Kala Mahavidyalaya
 Ralegaon Dist. Yavatmal

- Green and Energy Audit**

Conducted regular Green and Energy audit to access the impact of ecofriendly awareness programs.

4. Evidences of Success

- Students, parents and local community members are actively participated in eco-friendly events, workshops and projects demonstrating a growing awareness and commitment to sustainable practices.
- Significant reduction waste generation within college campus through effective waste management programs and recycling efforts.
- Increased in flora of the college campus is the result of successful tree plantation drives and afforestation initiatives.
- Present data indicating reduced energy consumption by the college through the implementation of energy saving practices.





Flora of the campus and outside the campus after plantation


List of flora in the college campus

Sr.No.	Common Name	Botanical Name	Numbers
1	Mehandi	<i>Lowsonia Inermis</i>	158
2	Ashoka	<i>Saraca Ashoka</i>	25
3	Kadunimb	<i>Azadirakta Indica</i>	32
4	Chakri	<i>Tabernaemontana</i>	2
5	Palm	<i>Roystonea regia</i>	20
6	Angreji Chinch	<i>Pithecellobium dulce</i>	1
7	Ula Rawan	<i>Lantana camara</i>	4
8	Ghantoli	<i>Tecoma stans</i>	4
9	Kanher	<i>Nerium Indicum</i>	16
10	Bakul	<i>Mimusops Elengi</i>	4
11	Sadafully	<i>Catharanthus roses</i>	27
12	Jabhul	<i>Synzygium cumini</i>	3
13	Saag	<i>Tectona grandis</i>	150
14	Pimpal	<i>Ficus religiosa</i>	2
15	Karanj	<i>Millettia pinnata</i>	9
16	Champa	<i>Plumeria rubra</i>	3
17	Jaswand	<i>Hibiscus rosa sinensis</i>	8
18	Kadamb	<i>Neolamarckia cadamba</i>	3
19	Rose	<i>Rosa</i>	7
20	Vidya	<i>Thuja occidentalis</i>	4
21	Stobush	<i>Breyania disticha</i>	5
22	Mogra	<i>Tasminium sambac</i>	7

23	Dalimb	<i>Punica granatum</i>	1
24	Casurina	<i>Casurina sp.</i>	1
25	Dracena	<i>Draceana sp</i>	1
26	Ova	<i>Trachyspermum ammi</i>	1
27	Shatavari	<i>Asparagous recemosus</i>	1
28	Ashwganda	<i>Withania somnifera</i>	1
29	Adulsa	<i>Adathoda vasica</i>	1
30	Rui	<i>Calatropis procera</i>	1
31	Alovera	<i>Aloe barbadensis</i>	1
32	Prajakta	<i>Nyctanthes arbortrisis</i>	1
33	Raktchandan	<i>Pterocarpus santalinus</i>	2
34	Shevga	<i>Moringa oleifera</i>	1
35	Santra	<i>Citrus sinensis</i>	1
36	Anjir	<i>Ficus carica</i>	1
37	Shendur	<i>Bixa orellana</i>	1
38	Nilgudi	<i>Vitex negundo</i>	1
39	Mosambi	<i>Citrus limon</i>	1
40	Sitafal	<i>Annona squmosa</i>	2
41	Jambh, Peru	<i>Psidium guajava</i>	1
42	Naral	<i>Cocus nucifera</i>	1
43	Akashnim	<i>Milingtonia hortensis</i>	1
44	Java apple	<i>Syzygium samaran</i>	1
45	Karavand	<i>Carissa conjesta</i>	2
46	Limbu	<i>Citrus acida</i>	1
47	Godnimb	<i>Muraya koenigii</i>	1
48	Sonchafa	<i>Maognoolia champaca</i>	7
49	Copper leaf	<i>Acalypha wilkesiana</i>	1
50	Bel	<i>Aegel marmelos</i>	1
51	Bor	<i>Zyzipus sp</i>	2
52	Apta	<i>Bahunia sp</i>	1
53	Sisum	<i>Dalbergia sissoo</i>	10
54	Gulmohar	<i>Delonix regia</i>	2
55	Nilgiri	<i>Eukalyptus</i>	2
56	Saptarni	<i>Alstonia scholaris</i>	5
57	Umber	<i>Ficus racemosa</i>	1
58	Snowbush	<i>Ceanothus veluntis</i>	5
59	Wad	<i>Ficus benghalensis</i>	1
60	Conoarpus	<i>Conocarpus erectus</i>	22
61	Bahava	<i>Cassia fistula</i>	1
Total			583


 Co-ordinator
 Internal Quality Assurance Cell
 Indira Gandhi Kala Mahavidyalaya
 Ralegaon




 PRINCIPAL
 Indira Gandhi Kala Mahavidyalaya
 Ralegaon Dist. Yavatmal

Certificates issued from external agencies

Energy Audit Report: Indira Gandhi Kala Mahavidyalay, Ralegaon, Yavatmal: 21-22

Enrich Consultants

Yashashree, 26, Nirmal Bag Society,
Near Mukhtangan English School, Parvati, Pune 411 009
Tel: 09890444795 Email: enrichcons@gmail.com

Ref: EC/IGC/21-22/06

Date: 25/05/2022

CERTIFICATE

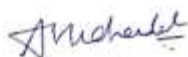
This is to certify that we have conducted Energy Audit at Indira Gandhi Kala Mahavidyalay, Ralegaon, Yavatmal - 445 402 in the Academic year 2021-22.

The College has adopted following Energy Efficient practices:


- Usage of Energy Efficient LED Fittings
- Maximum usage of Day Lighting

We appreciate the support of Management, involvement of faculty members and students in the process of making the Campus Energy Efficient.


For Enrich Consultants,



A Y Mehendale,
Certified Energy Auditor
EA-8192



Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Ralegaon



PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

Enrich Consultants

Yashashree, 26, Nirmal Bag Society,
Near Mukangan English School, Parvati, Pune 411 009
Tel: 09890444795 Email: enrichcons@gmail.com

Ref: EC/IGC/20-21/22

Date: 26/04/2021

CERTIFICATE

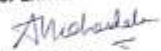
This is to certify that we have conducted Environmental Audit at Indira Gandhi Kala Mahavidyalaya, Ralegaon in the Academic year 2020-21.

The College has adopted following Environment Friendly Practices:

- Usage of Energy Efficient LED Light Fitting
- Maximum Usage of Day Lighting
- Provision of Separate bins for Dry & Wet Waste
- The College has installed septic tanks and cleans periodically.
- Implementation of Rain Water Management Project
- Tree Plantation in the campus
- Creation of awareness by Display of Posters on Resource Conservation

We appreciate the support of Management, involvement of faculty members and students in the process of Energy Conservation & making the campus Green.


For Enrich Consultants,


A Y Mehendale,
Certified Energy Auditor
EA-8192



Enrich Consultants, Pune




Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Ralegaon




PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

ENGRESS SERVICES

Yashashree, 26, Nimal Bag Society, Near Muktangan English School, Parvati, Pune 411 009
Tel: 09890444795 Email: engress123@gmail.com

MEDA Registration No: ECN/2022-23/CR-43/1709
ISO: 9001-2015 Certified (Cert No: 23EQKC13),
ISO: 14001-2015 Certified (Cert No: 23EEKW20)

ENERGY AUDIT CERTIFICATE

Certificate No: ES/IGC/22-23/01

Date: 06/07/2023

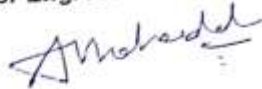
This is to certify that we have conducted an Energy Audit at Indira Gandhi Kala Mahavidyalaya, Ralegaon, Yavatmal, in the Year 2022-23.

The Institute has adopted following Energy Efficient practices:

- Usage of Energy Efficient LED Fittings
- Maximum usage of Day Lighting

We appreciate the support of Management, involvement of faculty members and students in the process of making the Campus Energy Efficient.


For Engress Services,



A Y Mehendale,
B E-Mechanical, M Tech- Energy
BEE Certified Energy Auditor, EA-8192



Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Ralegaon



PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009
Tel: 09890444795 Email: engress123@gmail.com
UDYAM Regn. No: UDYAM-MH-26-0135636,
MEDA Regn. No: ECN/2023-24/CR-43/1709
ISO: 9001-2015 Certified (Cert No: 23EQKC13),
ISO: 14001-2015 Certified (Cert No: 23EEKW20)



ENERGY AUDIT CERTIFICATE

Certificate No: ES/IGC/23-24/01

Date: 30/05/2024

This is to certify that we have conducted Energy Audit at Indira Gandhi Kala Mahavidyalaya, Ralegaon, Yavatmal, in the Academic year 2023-24.

The College has adopted following Energy Efficient Practices:

- Usage of Energy Efficient LED Fittings
- Usage of Energy Efficient BEE STAR Rated equipment
- Maximum usage of Day Lighting

We appreciate the support of Management, involvement of faculty members and students in the process of making the Campus Energy Efficient.

For Engress Services,

A Y Mehendale,
B E-Mechanical, M Tech- Energy
BEE Certified Energy Auditor, EA-8192



Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Ralegaon



PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist.Yavatmal

5. Problem encountered and resources required

- Due to unavailability of mobile and internet facility at their residential area, many students could not participated in online programmes.
- Tribal students hesitated for participation in various activities because for their communication problem and mind set.
- Due to unavailability of state transports bus facility after 5.00 PM for most of the villages, tribal students are reluctant to participate in the events organized after 5.00 PM.
- The strength of girl's students is higher than boys in our college and because of local & social obstacles and unbelief, girl students are reluctant in participation.

Best Practice 2

Awareness and Promotion of Use of Non-conventional Energy Sources in Tribal Region.

1. Objectives of the practice

- To increase a scientific temper and awareness in the students from tribal community and develop in them a logical thought process and present the marvels of Science and Technology.
- To promote the use of non-conventional energy sources by facilitating flow of information to the students, teachers and general public.
- To introduce practical application and recent advancements in order to strengthen theoretical knowledge for the benefit of society.
- To introduce certificate courses for improving skills and imparting training.
- To organize various awareness and promotional programmes.

2. The context

In tribal regions, the promotion and awareness of non-conventional energy sources are essential for sustainable development. Recognizing the unique challenges and opportunities in these areas, fostering awareness and encouraging the use of non-conventional energy sources can lead to improved energy access, environmental conservation, and community empowerment.

3. The practices

- **Programs and workshops on energy conservation**

Conduct regular workshops and training programs such as for students to enhance their understanding of non-conventional energy sources and their applications.

- **Demonstration Projects**

Implemented small-scale demonstration projects showcasing the practical use and benefits of non-conventional energy sources within the tribal community.

- **Integration into Local Industries**

Promoted the integration of non-conventional energy sources into local industries, such as agro-processing or handicrafts, to enhance economic sustainability.

- **Community Outreach Programs**

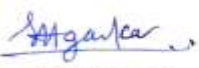
Organized community outreach programs to disseminate information about the advantages of non-conventional energy, addressing many misconceptions and concerns.

**A live telecast of Prime Minister Shri. Narendra Modi's address at the
"India's Techade: Chips for Viksit Bharat" program
Date: - 13/03/2024**




Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Ralegaon




PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

Educational Tour at Raman Science Centre, Nagpur



Photo 1 – Participants in front of Raman Science Centre, Nagpur

देशोन्नती

इंदिरा गांधी महाविद्यालयाची शैक्षणिक सहल

देशोन्नती वृत्तसंकलन...

राळेगाव ■ इंदिरा गांधी कला महाविद्यालयात , गणित व भौतिकशास्त्र विभागाद्वारे शैक्षणिक सहल चे आयोजन करण्यात आले. ३४ मुल व मुली व तसेच चार प्राध्यापक रुंद या सहलीला गेले होते.

रमण सायन्स सेंटर , नागपूर येथे मुलांनी तारा मंडळ , डी.डी. शो, शाडो ऑफ स्पिरर तसेच सायन्स पार्क याचे आनंद लुटले. सहलीच्या


आयोजनकरिता गणित विभाग प्रमुख डॉ. ए वाय शेख व तसेच भौतिकशास्त्र विभाग प्रमुख के. डी. जगताप, व प्रा. भूषण भट्टी आणि प्रा. अमोल लिहितकर

यांनी परिश्रम घेतले. डॉ. संतोष आगरकर यांनी सहलीच्या आयोजनाकरिता मार्गदर्शन केले. (ता.प्र.)

Deekhoratti Edition
Feb. 12, 2024 Page No. 3
Powered by : www.dek.com


Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Ralegaon




PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

Workshop on ‘Non-Conventional Source of Energy’

Date: - 10/12/2021




Dr. S. V. Agarkar and Mr. K. D. Jagtap guiding students on the non conventional source of energy




Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Railegaon




PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Railegaon Dist. Yavatmal

**Certificate course on “ Renewable Energy Resources” organized by department of
Physics**

Late Chindhuji Laxmanrao Purke Shikshan Prasarak Mandal's



**INDIRA GANDHI KALA MAHAVIDYALAYA, RALEGAON
DISTRICT- YAVATMAL**

Affiliated to S.G.B Amravati University, Amravati
NAAC Accredited with “B” Grade

Department of Physics

**Organizes
e-Certificate Course On**

“Renewable Energy Resources”

Session: 2022-23

Preamble of the course

Energy is a critical component of a country's development and economic success. Energy sector development is crucial for socioeconomic development, particularly in rural regions. It is a significant problem in the Indian setting to supply inexpensive energy services to the populace. At the moment, grid power is available to 80% of total villages and 44% of rural homes. Energy system growth is further hampered by the depletion of fossil fuels, local environmental repercussions, and the challenge of global warming and accompanying climate change. The energy industry is in transformation, and there is an urgent need to comprehend the different energy conversion and utilization processes. An attempt has been made in this course to standardize the course material and to emphasize the fundamentals of non-conventional energy sources (solar, wind, and biomass).

❖ Objectives:

1. To introduce new courses for the students and to eradicate unemployment.
2. To understand appliances available in the market that promote solar usage.
3. To join hands for a greener tomorrow.
4. Ensure the relevance of programs by updating courses regularly.
5. Help participating students to become more effective decision-makers in their knowledge and managerial skills.

❖ Course Structure:

- The Course will be of 30 hours.
- There will be 15 online theory classes each of 2 hours.
- There will be 2 assignments, 2-unit tests & 2 practicals as a part of the internal assessment.
- The internal assessment marks shall be awarded on the basis of assignment, unit tests and practical submission.
- The final grading exam will contain 25 MCQ questions (each of two marks) based on overall syllabus of the course.

❖ Course Syllabus:

Module-1 (10 hours)

Energy Scenario: Classification of Energy Sources, Energy resources (Conventional & nonconventional). Solar Energy: Solar thermal Systems: Types of collectors, Collection system efficiency calculations, applications. Wind Energy: Wind speed and power relation, power extracted from wind, wind distribution and wind speed predictions. Wind power systems: system components, Types of Turbines, Turbine rating.

Module-2 (10 hours)

Introduction to the ocean environment, Ocean energy resources, Ocean energy routes, Ocean thermal energy conversion, Wave energy conversion, Tidal energy conversion. Geothermal Energy: Origin of Geothermal Energy, Types of geothermal energy sites, Geothermal Energy plants.

Module-3 (10 hours)

Overview of biomass as energy source; Biomass availability in India Production of bioenergy. Biomass as fuel. Fuel Cell: Principle of working, Basic thermodynamic and electrochemical principles, Classifications, Applications for power generations. Photovoltaic Cell: Introduction, operating principal, Working of PV cell, Advantages & Disadvantages.

Department of Physics

❖ Activity Schedule:

Day	Content of the course	Type of Resources
Day-1	Introduction to various renewable energy sources	Lecture -1 / PDF-1
Day-2	Solar energy	Lecture -2/ PDF-2
Day-3	Solar radiations on earth	Lecture -3/ PDF-3
Day-4	Solar Energy Storage/ Solar Cell Experiment-1	Lecture -4/ PDF-4
Day-5	Quiz	Grading quiz
Day-6	Solar water heater	Lecture -5/ PDF-5
Day-7	Solar concentrating collectors	Lecture -6/ PDF-6
Day-8	Wind energy	Lecture -7/ PDF-7
Day-9	Ocean energy-Waves & tides	Lecture -8/ PDF-8
Day-10	Quiz	Grading quiz
Day-11	Geothermal energy	Lecture -9/ PDF-9
Day-12	Biomass Energy	Lecture -10/ PDF-10
Day-13	Fuel cells	Lecture -11/ PDF-11
Day-14	Photovoltaic cell / Photocell Experiment-2	Lecture -12/ PDF-12
Day-15	Final Grading Exam.	Grading

❖ Examination Pattern and Marks distribution

Final grading exam questions are set to be from the entire syllabus. There will be 25 questions of MCQ type of 2 marks each. The internal assessment marks shall be awarded on the basis of assignment, practical, and unit test submission. The marking scheme of each Practice/Activity shall be as follows: -

	Assignment	Unit test	Practical
1	Two test per week (each of 5 marks)	10	
2	Two test per week (each of 5 marks)	10	
3	Two practicals per week (each of 15 marks)	30	

❖ Final Grading Exam

Max. Marks for theory paper	Max. marks for internal assessment	Total	Minimum Passing Marks
50	50	100	40

❖ Grading Scheme

A ⁺	: 85 percent and above
A	: 70 percent to less than or equal to 84 percent
B	: 60 percent to less than or equal to 69 percent
C	: 50 percent to less than or equal to 59 percent
D	: Below 49 percent

Department of Physics

Asst. Prof.

Assistant Professor

Indira Gandhi Kala Mahavidyalaya
Ralegaon

Mr. Kapil D. Jagtap
Assistant Professor & HOD Physics
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

Mr. Bhushan H. Bhatti
Assistant Professor
Department of Physics
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

Indira Gandhi Kala Mahavidyalaya, Ralegaon

Department of Physics


Session-2022-23

Timetable of the e-Certificate Course on "Renewable Energy Resources"

Date	Time	Name of the topic	Type of Resources
17/04/2023	3:00 P.M to 5:00 P.M	Introduction to various renewable energy sources	Video Tutorial-1/ PDF-1
18/04/2023	3:00 P.M to 5:00 P.M	Solar energy	Video Tutorial-2/ PDF-2
19/04/2023	3:00 P.M to 5:00 P.M	Solar radiation on earth	Video Tutorial-3/ PDF-3
20/04/2023	3:00 P.M to 5:00 P.M	Solar Energy Storage/ Solar Cell Experiment-1	Video Tutorial-4/ PDF-4
21/04/2023	3:00 P.M to 5:00 P.M	Quiz & Assignment session.	Grading quiz
22/04/2023	3:00 P.M to 5:00 P.M	Solar water heater	Video Tutorial-5/ PDF-5
23/04/2023	3:00 P.M to 5:00 P.M	Solar concentrating collectors	Video Tutorial-6/ PDF-6
24/04/2023	3:00 P.M to 5:00 P.M	Wind energy	Video Tutorial-7/ PDF-7
25/04/2023	3:00 P.M to 5:00 P.M	Ocean energy-Waves & tides	Video Tutorial-8/ PDF-8
26/04/2023	3:00 P.M to 5:00 P.M	Quiz & Assignment session.	Grading quiz
27/04/2023	3:00 P.M to 5:00 P.M	Geothermal energy	Video Tutorial-9/ PDF-9
28/04/2023	3:00 P.M to 5:00 P.M	Biomass Energy	Video Tutorial-10/ PDF-10
29/04/2023	3:00 P.M to 5:00 P.M	Fuel cells	Video Tutorial-11/ PDF-11
30/04/2023	3:00 P.M to 5:00 P.M	Photovoltaic cell / Photocell Experiment-2	Video Tutorial-12/ PDF-12
02/05/2023	3:00 P.M to 5:00 P.M	Final Grading Exam.	Grading quiz



Mr. Bhushan H. Bhatti
Assistant Professor
Department of Physics
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal



Assistant Professor
Department of Physics
Indira Gandhi Kala Mahavidyalaya
Ralegaon



Mr. Kapil D. Jagtap
Assistant Professor & HOD Physics
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

Indira Gandhi Kala Mahavidyalaya, Ralegaon

Department of Physics

e-Certificate Course on "Renewable Energy Resources"

Registration List

Session : 2022-23

Sr. No	Full Name	Class
1	Mr. CHETAN ASHOK DAMBIKAR	B.Sc.-Ist (Sem-II)
2	Ku. KIRTI BHAI CHANDRA RAUT	B.Sc.-Ist (Sem-II)
3	Ku. MANSI SOMDEV BHOYAR	B.Sc.-Ist (Sem-II)
4	Ku. MINAKSHI S. POHANKAR	B.Sc.-Ist (Sem-II)
5	Ku. NIKHITA BHOJARAJ GEDAM	B.Sc.-Ist (Sem-II)
6	Ku. PRACHI SHRAVAN DONGARE	B.Sc.-Ist (Sem-II)
7	Mr. PRATIK RAJENDRA TODASE	B.Sc.-Ist (Sem-II)
8	Ku. PRATIKSHA S. SASANE	B.Sc.-Ist (Sem-II)
9	Ku. PRERANA P. KULSANGE	B.Sc.-Ist (Sem-II)
10	Ku. PU NAM G. RAMPURE	B.Sc.-Ist (Sem-II)
11	Ku. RADHIKA A. PANNASE	B.Sc.-Ist (Sem-II)
12	Ku. RANI HARIBHAU KHAPARDE	B.Sc.-Ist (Sem-II)
13	Ku. RUTUJA GOVINDRAO UMATE	B.Sc.-Ist (Sem-II)
14	Ku. SHIVANI GAJANAN MADAN	B.Sc.-Ist (Sem-II)
15	Ku. TANUJA SHIBAJI INGALE	B.Sc.-Ist (Sem-II)
16	Ku. TANUSHRI S. LATKAR	B.Sc.-Ist (Sem-II)
17	Ku. SEJAL B. GHINMINE	B.Sc.-Ist (Sem-II)
18	Mr. SANDESH GEDAM	B.Sc.-Ist (Sem-II)
19	Ku. VAIDEHI SONEKAR	B.Sc.-Ist (Sem-II)

Mr. Bhushan H. Bhatti
Assistant Professor
Department of Physics
Indira Gandhi Kala Mahavidyalaya
Ralegaon

Assistant Professor
Department of Physics
Indira Gandhi Kala Mahavidyalaya
Ralegaon

Mr. Kapil D. Jagtap
Assistant Professor & HOD Physics
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Ralegaon



PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

4. Evidences of success

- Adoption of non-conventional energy sources within the tribal community has been increases.
- Students from tribal community have successfully involved and participated in awareness programs and energy projects.
- Arranged field visit to solar plant, expert talk and solar charakha unit demo for students.

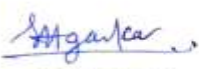
Visit to solar plant



Mr. Shirsagar guiding to B.Sc. II Students about materials used in the Solar Panel and their application & uses


Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Ralegaon





PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

Industrial Visit- Kalpvruksh Khadi Udyog, Ralegaon
Date: -23/04 /2023




Co-ordinator
 Internal Quality Assurance Cell
 Indira Gandhi Kala Mahavidyalaya
 Ralegaon




PRINCIPAL
 Indira Gandhi Kala Mahavidyalaya
 Ralegaon Dist. Yavatmal

Indira Gandhi Kala Mahavidyalaya, Ralegaon

Department of Physics

e-Certificate Course on "Renewable Energy Resources"

Final Grading quiz

Session : 2022-23

Sr. No.	Name of the Student	Class	Score
1	Mr. CHETAN ASHOK DAMBHARE	B.Sc.-Ist (Sem-II)	46 / 50
2	Ku. KIRTI BHALCHANDRA RAUT	B.Sc.-Ist (Sem-II)	40 / 50
3	Ku. MANSI SOMDEV BHOYAR	B.Sc.-Ist (Sem-II)	44 / 50
4	Ku. MINAKSHI S. POHANKAR	B.Sc.-Ist (Sem-II)	46 / 50
5	Ku. NIKHITA BHOJARAJ GEDAM	B.Sc.-Ist (Sem-II)	46 / 50
6	Ku. PRACHI SHRAVAN DONGARE	B.Sc.-Ist (Sem-II)	48 / 50
7	Mr. PRATIK RAJENDRA TODASE	B.Sc.-Ist (Sem-II)	46 / 50
8	Ku. PRATIKSHA S. SASANE	B.Sc.-Ist (Sem-II)	48 / 50
9	Ku. PRERANA P. KULSANGE	B.Sc.-Ist (Sem-II)	44 / 50
10	Ku. PUNAM G. RAMPURE	B.Sc.-Ist (Sem-II)	50 / 50
11	Ku. RADHIKA A. PANNASE	B.Sc.-Ist (Sem-II)	48 / 50
12	Ku. RANI HARIBHAU KHAPARDE	B.Sc.-Ist (Sem-II)	44 / 50
13	Ku. RUTUJA GOVINDRAO UDATE	B.Sc.-Ist (Sem-II)	40 / 50
14	Ku. SHIVANI GAJANAN MADAN	B.Sc.-Ist (Sem-II)	44 / 50
15	Ku. TANUJA SHIBAJI INGALE	B.Sc.-Ist (Sem-II)	48 / 50
16	Ku. TANUSHRI S. LATKAR	B.Sc.-Ist (Sem-II)	46 / 50
17	Ku. SEJAL B. GHINMINE	B.Sc.-Ist (Sem-II)	48 / 50
18	Mr. SANDESH GEDAM	B.Sc.-Ist (Sem-II)	42 / 50
19	Ku. VAIDEHI SONEKAR	B.Sc.-Ist (Sem-II)	46 / 50

Mr. Bhushan H. Bhatti
Assistant Professor
Department of Physics
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

Assistant Professor
Department of Physics
Indira Gandhi Kala Mahavidyalaya
Ralegaon

Mr. Kapil D. Jagtap
Assistant Professor & HOD Physics
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Ralegaon




PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal

5. Problem encountered and resources required

- Technical difficulties faced during the implementation of nonconventional energy sources and how they were addressed.
- There are certain limitations in existing infrastructure that posed challenges and the steps taken to mitigate them.
- Rural population is reluctant in using non-conventional energy sources.
- The parents from tribal community are not permitting their wards


Co-ordinator
Internal Quality Assurance Cell
Indira Gandhi Kala Mahavidyalaya
Ralegaon




PRINCIPAL
Indira Gandhi Kala Mahavidyalaya
Ralegaon Dist. Yavatmal