



**Nanded Education Society's**

**Science College, Nanded**

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(Affiliated to Swami Ramanand Teerth Marathwada University, Nanded)  
(Reaccredited with "A" grade by NAAC with (CGPA 3.38) 3rd Cycle, CPE Status,  
DST-FIST, Best College Award (SRTMUN))



**Annual Quality Assurance Report  
2022-23**

**Criteria- 2**

**Teaching- Learning and Evaluation**

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

## Additional Information: Criteria: 2.3.1:

Activities organized for the students including workshops, capacity building activities, exhibitions, Competitions, etc.

Activities organized for the students including workshops, capacity building activities, exhibitions, Competitions, etc.	<b>Total</b>
<b>All the departments</b>	<b>08</b>

Qualitative Data

Sr. No.	Name of the activity	Date	Details	No. of students
<b>Department of Chemistry and Agro. Chem. and Fertilizers, Analy. Chemistry</b>				
1.	One Day Guest Lecture on topic "Reactions of Metal Complexes" and "Pericyclic Reactions"	26/03/2023	One Day Guest Lecture on topic "Reactions of Metal Complexes" and "Pericyclic Reactions" by Dr. S. B. Zangade, Assistant Professor, M. P. College, Palam, Dist. Parabhani, organized on D. 26/03/2023.	39
<b>Department of Botany, Micro biology &amp; Biotechnology</b>				
1.	'One day Workshop on Shewanti Cultivation and Conservation'	22/08/2022	One day workshop on "Shevanti Cultivation and Conservation" was organized on 22nd August, 2022 at N. E. S. Science college, Nanded in collaboration with Amravati Garden Club, Amravati and Shri Shivaji Horticulture College, Amravati as a part of MoU signed.	42
2.	'National workshop on "Medicinal Plants: Authentication, Cultivation & Future prospects'	17/02/2023	'National workshop on "Medicinal Plants: Authentication, Cultivation & Future prospects" was organized on 17th February, 2023 at N. E. S. Science college, Nanded in collaboration with WARSA: Ethnic Knowledge Heritage Society, Anjangaon Surji, Dist. Amravati as a part of MoU signed.	54
<b>Department of Zoology and Fishery Science</b>				
1.	Science Exhibition	28/02/2023	Science Exhibition organized on the special occasion was National Science Day on D. 25/02/2023.	63
<b>Department of Physics and Electronics</b>				
1.	Guest Lecture on "Physics Opportunities"	22/08/2022	The guest lecture on "Physics Opportunities" had been conducted on August 22, 2022. The speaker was Dr. Vijaykiran Narwade, a postdoctoral researcher from RUSA- Centre for Advanced Sensor Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. During the talk Dr. Narwade specifies range of career opportunities in Physics and applied branches.	30

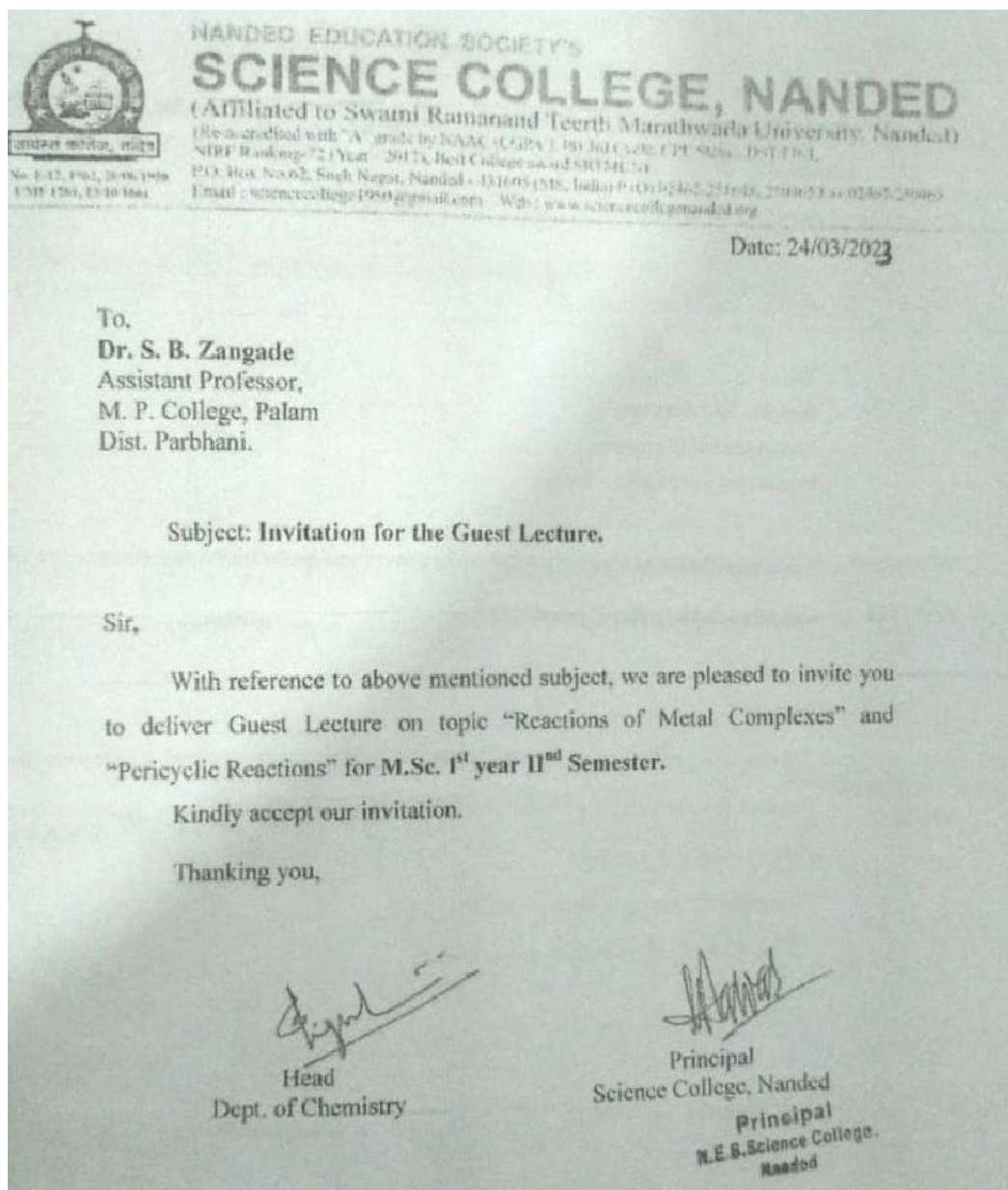
<b>Department of Mathematics</b>				
1.	One week National Workshop on "Preparation of NET/SET Examinations in Mathematics"	06/02/2023-11/02/2023	One week National Workshop on "Preparation of NET/SET Examinations in Mathematics", organized by Department of Mathematics and Applied Mathematics, N.E.S. Science College Nanded, during 06-11 Feb, 2023.	51
2.	Guest Lecture on "Applications of MATLAB Software"	05/04/2023	Guest Lecture on "Applications of MATLAB Software" organized by Department of Mathematics and Applied Mathematics, N.E.S. Science College, Nanded on D. 05/04/2023. The resource person of the programme was Dr. Yogesh Muley, Assi. Professor, Shivaji College, Devni, Dist., Latur	46
<b>Department of Statistics and Computer Science</b>				
1.	Two Days Workshop on "Personality Development Programme and Life Skills Orientation Programme"	19/09/2022	Two Days Workshop on "Personality Development Programme and Life Skills Orientation Programme" organized by Department of Computer Science on D. 19/09/2022. The resource person of this capacity building workshop was Mr. Giriraj Jambkar, Subject Matter Expert / Trainer, Out-of- The Box, Mumbai, (MH)	80
2.	A State Level Case Study and 'C/C++' Programming Competition	02/05/2023	TechnoCase 2023- "A State Level Case Study and 'C/C++' Programming Competition" held at ATSS's Institute of Industrial and Computer Management and Research (IICMR-MCA), Nigdi, Pune. This Code Battle Competition organized on D. 2 <sup>nd</sup> May, 2023.	12
<b>Department of Geology</b>				
1.	Educational Informative Study Tour	03/02/2023	Department of Geology has arranged Study Tour to Sahastrakund and Kinwat region on dated 03/02/2023. All geology students from 1st year, 2nd year and 3rd year were benefited by geological exposures in the region.	19
<b>Department of Languages</b>				
1.	Essay Writing, Poetry Writing	04/09/2022-12/09/2022	Organization of essay writing and poetry writing competition by Hindi Department from 4th September to 12th September 2022 on the occasion of Hindi Diwas	31
2.	One Day Workshop on "Ethical Values"	08/08/2022	One Day Workshop on "Ethical Values" organized by department of Languages on D. 08/08/2022. The resource person of the programme was Anand Purusharathi, Preacher Hoshangabad, Madhya Pradesh	64



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## Photographs

One Day Guest Lecture on topic "Reactions of Metal Complexes" and "Pericyclic Reactions"



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**'One day Workshop on Shewanti Cultivation and Conservation'**



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**'National workshop  
on  
'Medicinal Plants: Authentication, Cultivation & Future prospects'**



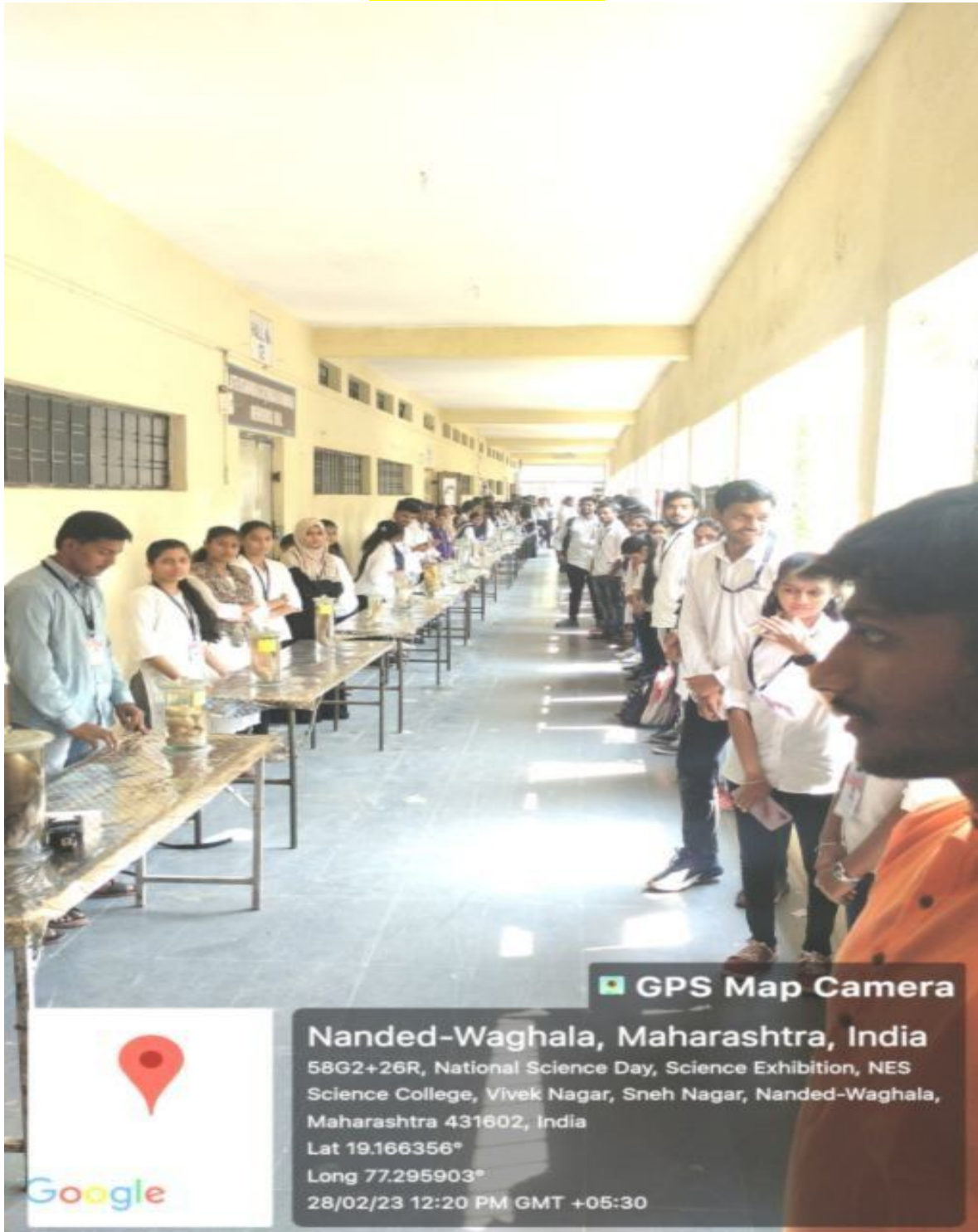


**Inauguration of Science Exhibition and Book Publication Ceremony**



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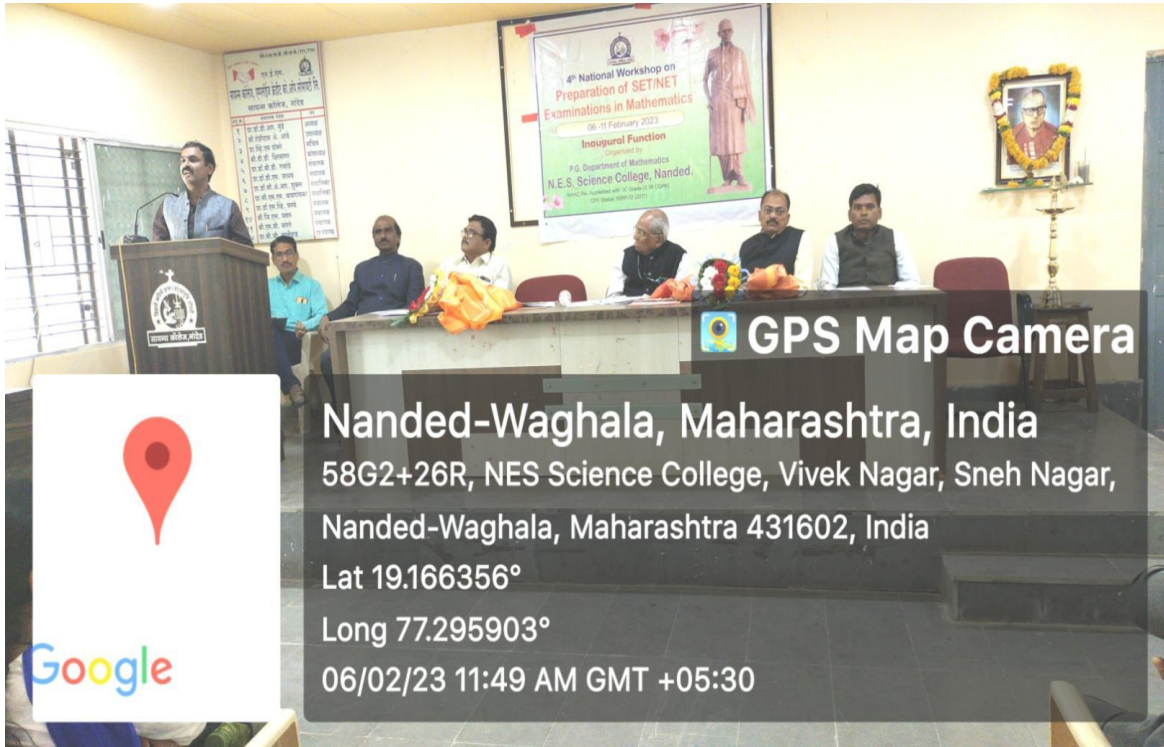
## Science Exhibition



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One week National Workshop on "Preparation of NET/SET Examinations in Mathematics"



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**Guest Lecture on "Applications of MATLAB Software"**



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**Two Days Workshop on "Personality Development Programme  
and  
Life Skills Orientation Programme"**



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## A State Level Case Study and 'C/C++' Programming Competition

Audyogik Tantra Shikshan Sanstha's  
Institute of Industrial & Computer Management & Research  
Nigdi, Pune 411044



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Student Branch

### TechnoCase 2023

"A State Level Case Study & 'C/C++' Programming Competition"

## Certificate

This is to certify that Mr./Ms *Subodh Paikrao*  
of *N. E. S. Science College, Nanded*

has participated in TechnoCase 2023 'C/C++' Programming Competition held at ATSS's Institute of Industrial & Computer Management & Research(IICMR-MCA), Nigdi on 2<sup>nd</sup> May 2023.



  
Ms. Renu Mathew  
Chief Convener

  
Dr. Deepali Sawai  
Director, IICMR-MCA

Audyogik Tantra Shikshan Sanstha's  
Institute of Industrial & Computer Management & Research  
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Student Branch

### TechnoCase 2023

"A State Level Case Study & 'C/C++' Programming Competition"

## Certificate

This is to certify that Mr./Ms *Maroti vishvanath kokane*  
of *N. E. S. Science College, Nanded*

has participated in TechnoCase 2023 'C/C++' Programming Competition held at ATSS's Institute of Industrial & Computer Management & Research(IICMR-MCA), Nigdi on 2<sup>nd</sup> May 2023.



  
Ms. Renu Mathew  
Chief Convener

  
Dr. Deepali Sawai  
Director, IICMR-MCA



  
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## Educational Informative Study Tour



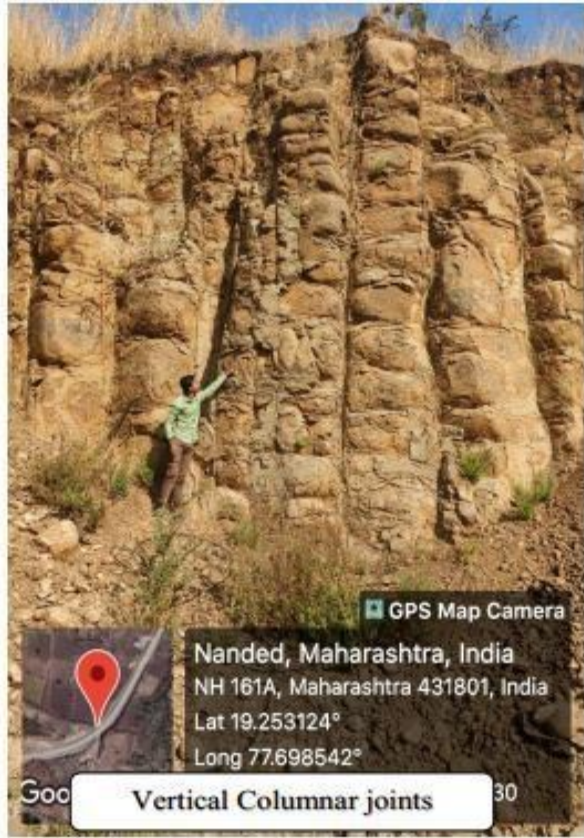
Geological Field Tour at SK Region date: 3/2/2023



Group photo at Sahastrakund waterfall along with faculty Dr. Sumeet Chavhan, Mr. Harshal Dakore, and Kartik Patki, Date: 3/2/2023



*S. S. Chavhan*  
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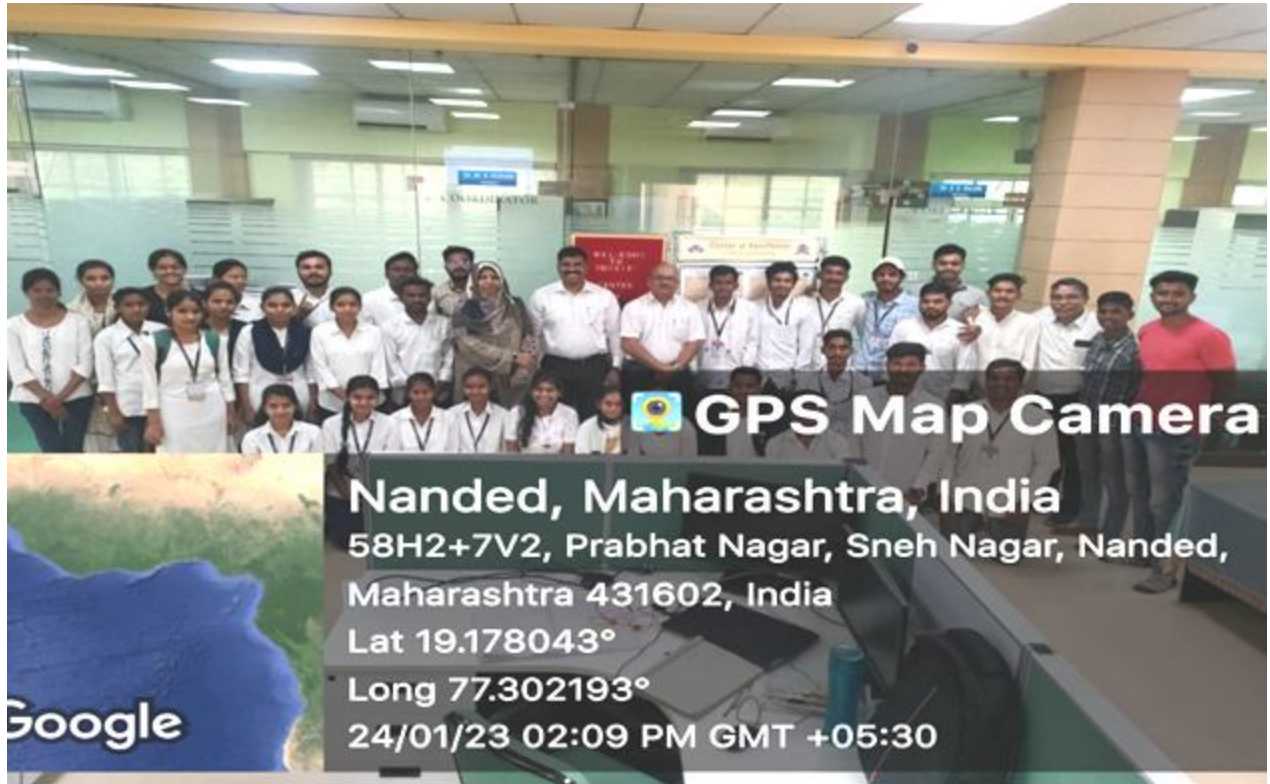
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## Computer-Assisted Information



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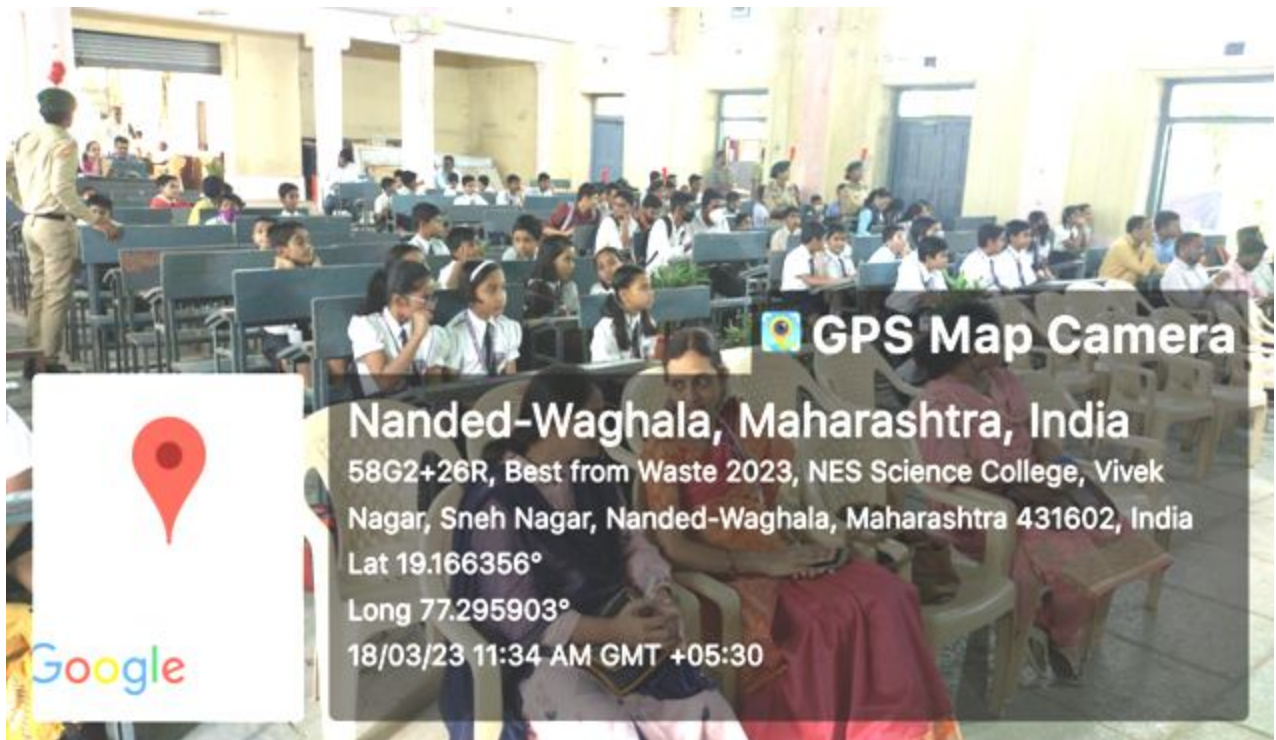
## Lab to Field



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# Best from Waste



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# Flipped Classes

Dr. Aruna Shukla

@dr.arunashukla2092 · 237 subscribers · 21 videos

Pho. डॉ. अरुणा राजेंद्र शुक्ल, प्रोफेसर और हिन्दी विभाग प्रमुख, साइंस कॉलेज, नांदेड >

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बीमा नाटक, नाटककार रत्न कुमार सांभरिया प्रस्तुति प्रो. डॉ.अरुणा राजेंद्र शुक्ल, साइंस कॉलेज,नांदेड  
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सिक्का बदल गया कहानी की समीक्षा प्रो. राजेंद्र शुक्ल,साइंस कॉलेज, नांदेड महारा  
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अंतर्राष्ट्रीय वैश्वीकरण का आयोजन, संत ज्ञानेश्वर और संत मोरारजी के पुरानी यादों का नया सफनामा मां के लिए ससुराल जाने से पहले हरी घास पर शोण भर, कवि अनेया शीत नया गाता है अटल बिहारी

Dr. Vishal Marathe

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Assistant Professor in Botany, NES Science College, Nanded (Maharashtra, India) >

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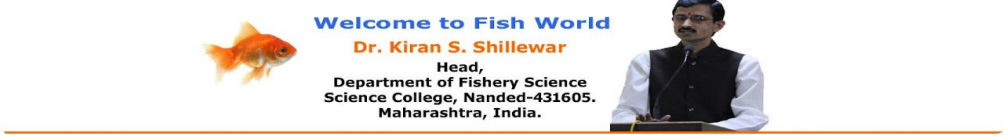
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Dr. Kiran Shillewar




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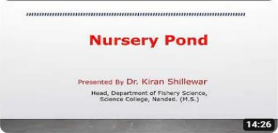
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Economically Important  
Fish liver is the main source of vitamin A and D.  
Body oils - soap industry is Use  
Aquariums, Aquarium Fishes  
Some are Valuable Food Fish  
Ex Channa, Catla etc.  
Mackerel, Pomfret etc.



Nursery Pond  
Presented by Dr. Kiran Shillewar  
Head, Department of Fishery Science,  
Science College, Nanded, (M.S.)



Induced breeding  
By- Dr Kiran Shillewar



FOOD AND FEEDING HABIT OF FISHES  
Presented by DR KIRAN SHILLEWAR  
Head, Department of Fishery Science,  
Science College, Nanded

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dr. sangita modi computer science

**Introduction to 8085 Microprocessor**  
**By Sangita Modi**  
**N.E.S. Science College, Nanded**  
**Roll no 1126**

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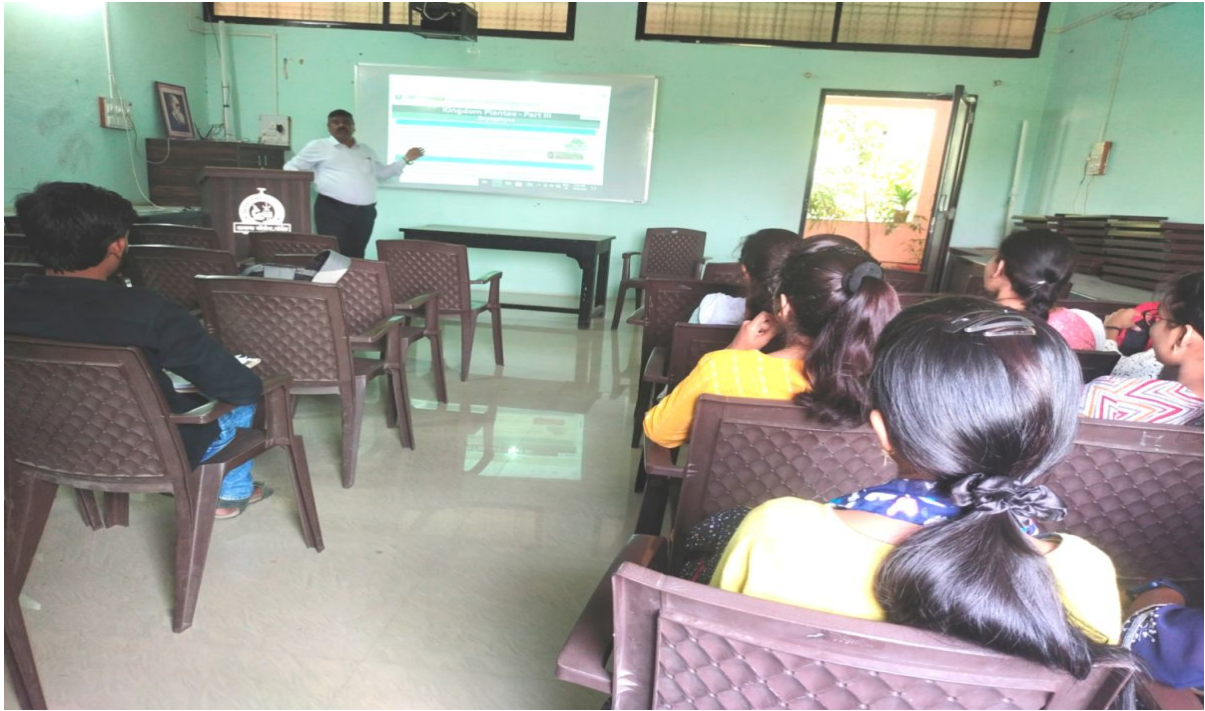
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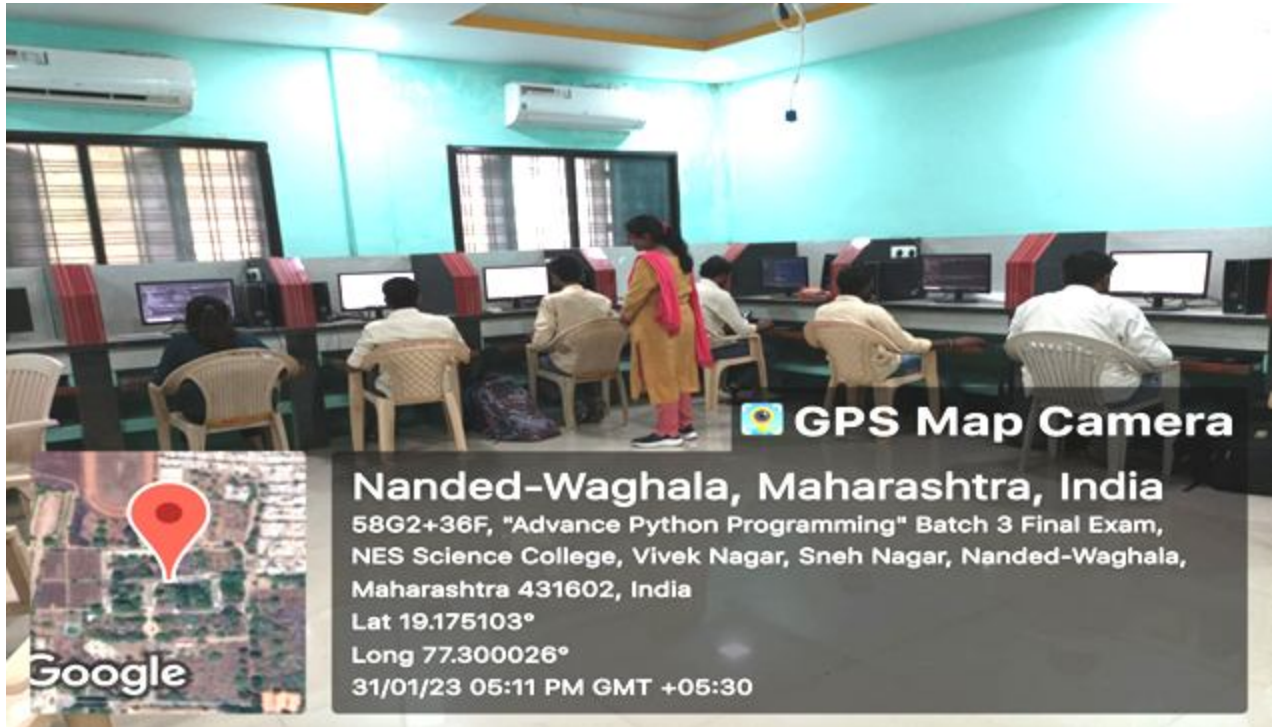
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*Shankar*  
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## Orientation Programmes



  
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## Learning by doing



## Students using E-resources in Library



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## Debate Competitions



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## Skill-based Skill Enhancement Course (SEC)

Analytical Chemistry  
B. Sc. Third Year (Semester V & VI)  
Total credits semester V and VI: 12

Sem.	Paper No.	Name of the Course	Instruction Hrs/ week	Total period	Internal Evaluation	Marks of Semester	Total Marks	Credits
V	DSEAC -V (Section A)	Modern Techniques of Chemical Analysis -I (P-XII)	03	45	10	40	50	02
	DECCAC- V (Section B)	Applied Analytical Chemistry -I (P-XIII) OR Fundamental concepts of Analytical Chemistry (P-XIII) (Elective)	03	45	10	40	50	02
			03	45	10	40	50	
	DSEAC P-IV (DECCAC V & VI) (Section A)	Practical's based on P-XII & P-XIV (P-XVI)	04	Practicals 08	05	20	25	01
					05	20	25	01
	Practical's based on P- XIII (Elective)	04	Practicals 08	05	20	25		
DSEAC -III SEC AC III	SEC AC- III Pharmaceutical Chemistry	02 + 01 = 03	45	25	25	50	(02)*	
VI	DSEAC -VI (Section A)	Modern Techniques of Chemical Analysis-II (P-XIV) OR Physical Methods in Analytical Chemistry (P-XIV) (Elective)	03	45	10	40	50	02
			03	45	10	40	50	
	DSEAC -VI (Section b)	Applied Analytical Chemistry -II (P-XV)	03	45	10	40	50	02
	DSEAC P -V (Section B) (DSEAC -V & X VI (section B)	Practical's based on P- III & P-XV (P-XVII)	04	Practicals 08	05	20	25	01
					05	20	25	01
	Practical's based on P- XIII & P-XV (P-XVII) (Elective)	04	08	05	20	25		
DSEAC -IV SEC AC - IV	SEC AC- IV PESTICIDE CHEMISTRY	02 + 01 = 03	45	25	25	50	(02)*	
Total credits semester V and VI:						12 (04)* = 16		

DSEAC: Discipline Subject Elective in Analytical Chemistry, DSEAC P: Discipline Subject Elective in Analytical Chemistry Practical, ESE: End of Semester Examination,

CA: Continuous Assessment, SECAC: Skill Enhancement Course in Analytical Chemistry.

Distribution of Credits: 80% of the total Marks for ESE and 20% for CA.

- CA of Marks 10: 10 Marks for test. - CA of 25 Marks: 15 Marks for Seminar & 10 Marks for test. Suggestions: The end examination of Skill Enhancement Course should be conducted on the separate day by

  
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Swami Ramanand Teerth Marathwada University, Nanded  
**Choice Base Credit System (CBCS) Course Structure**  
Faculty of Science and Technology  
**B.Sc. Third Year Fifth Semester Biotechnology Syllabus**  
**Effective from June 2021**

Semester	Code	Title of the Course	Hr/Week	Type of Course	Credit	Marks		Total
						ESA	CIA	
V		Environmental Studies	4					
	CCBT-1E	r-DNA Technology	4	CC	4	75	25	100
	CCBT-2E	Developmental Biology	4	CC	4	75	25	100
	CCBT-3E	Bioprocess Technology	4	CC	4	75	25	100
	DSEBT-4E (Select any one)	I) Advanced Bioinformatics	4	DSE	4	75	25	100
		II) Medical Biotechnology						
	Lab Course IX	Practicals based on CCBT 1E+2E	4	PR	4	100		100
Lab Course X	Practicals based on CCBT3E+DSEBT4E	4	PR	4	100		100	
					24	500	100	600
Semester	Code	Title of the Course	Hr/Week	Type of Course	Credit	Marks		Total
VI	CCBT-1F	Pharmaceutical Biotechnology	4	CC	4	75	25	100
	CCBT-2F	Industrial Biotechnology	4	CC	4	75	25	100
	CCBT-3F	Environmental Biotechnology	4	CC	4	75	25	100
	DSEBT-4F (Select any one)	I) Agriculture Biotechnology	4	DSE	4	75	25	100
		II) Animal Biotechnology						
	Lab Course XI	Practicals based on CCBT 1F+2F	3+3	PR	4	100		100
	Lab Course XII	Practicals based on CCBT 3F+4F	3+3	PR	4	100		100
Lab Course XIII	Dissertation/ Project Work/Review writing	3	PR	2	50		50	
					26	550	100	650
<b>CC- Core Course, DSE- Discipline Specific Elective, AEC- Ability Enhancement Course, ESA- End Semester Assessment, CIA- Continuous Internal Assessment, PR- Practical, SEC-Skill Enhancement Course</b> Total credits (Sem I+ II+III+IV+V+VI) = 24+24+26+26+24+26= 150								

  
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**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED**  
Semester Pattern Curriculum Under CBCS For  
Faculty of Science & Technology, Under Graduate (UG) Programmes  
**CLASS: B.Sc. THIRD YEAR, SUBJECT: BOTANY**

**An outline:**

Semester/ Annual	Course No.	Course Name	Instruction Hrs/week	Total Periods	Marks for		Credits (Marks)
					Internal (CA)	External (ESE)	
Semester-V	DSCB-I	DSCB-I: Cell and Molecular biology (Theory Paper-XII)	03	45	10	40	Credits: 02 (Marks: 50)
	DECB-I	DECB-I: Plant Pathology-I (Theory Paper-XIII) OR DECB-I: Systematic Botany-I (Theory Paper-XIII) OR DECB-I: Herbal Technology-I (Theory Paper-XIII)	03	45	10	40	Credits: 02 (Marks: 50)
Semester-VI	DSCB-II	DSCB-II: Genetics and Plant breeding (Theory Paper-XIV)	03	45	10	40	Credits: 02 (Marks: 50)
	DECB-II	DECB-II: Plant Pathology-II (Theory Paper-XV) OR DECB-II: Systematic Botany- II (Theory Paper-XV) OR DECB-II: Herbal Technology- II (Theory Paper-XV)	03	45	10	40	Credits: 02 (Marks: 50)
Annual Pattern	DSCBP-I	DSCBP-I: Practicals based on DSCB-I & II (Practical Paper-XVI)	03	16 Practicals/Batch/ Year	10	40	Credits: 02 (Marks: 50)
	SECB-III	SECB-III: Trichoderma Cultivation Technology OR SEC-III: Medicinal plant product preparation skill	03	45 (Theory periods-21/Year, Practicals-08/year)	25	25	Credits: 02 (Marks: 50)
Annual Pattern	DECBP-I	DECBP-I: Practicals based on DECB-I & II (Practical Paper-XVII)	03	16 Practicals/Batch/ Year	10	40	Credits: 02 (Marks: 50)
	SECB-IV	SECB-IV: Mushroom Cultivation OR SECB-IV: Herbal drug processing	03	45 (Theory periods-21/Year, Practicals-08/year)	25	25	Credits: 02 (Marks: 50)
Total Marks & Credits Semester-V and VI					Marks: 110	Marks: 290	Credits: 16 Marks:400

(DSCB: Discipline Specific Course in Botany, DSCBP: Discipline Specific Course in Botany Practicals, DECB: Discipline Elective Course in Botany, DECBP: Discipline Elective Course in Botany Practicals, ESE: End of semester examination, CA: Continuous Assessment, SECB: Skill Enhancement Course in Botany, Distribution of credits (80% of the total credits for ESE and 20% for CA):  
CA of 10 Marks (Theory): 05 marks for Test and 05 marks for home assignment  
CA of 10 Marks (Practical): 05 marks for Test and 05 marks for Record book & submissions (Excursion report, collected plant material, keys, models etc.)  
CA of Marks 25: 15 for marks Seminar & 10 marks for Test)

  
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