



VIDYA VIKAS SHIKSHAN SANSTHA, HINGANGHAT

VIDYA VIKAS ARTS, COMMERCE & SCIENCE COLLEGE SAMUDRAPUR, DIST. WARDHA (MAHARASHTRA)

AFFILIATED TO R.T.M. NAGPUR UNIVERSITY

Organizing

“VUPTA STUDENT SEMINAR – 2022”

Date: 19th & 20th March 2022



Dear Sir / Students,

It gives me immense pleasure to inform you that **Vidya Vikas Arts, Commerce and Science College, Samudrapur in association with Vidarbha Universities Physics Teacher's Association (VUPTA)** organizes VUPTA Students Seminar-2022 and Poster/Chart Competition in Physics at Vidya Vikas Arts, Commerce and Science College, Samudrapur District- Wardha 442305 (M.S.) on 19th and 20th March 2022. All B.Sc. and M.Sc. students of Physics and teachers of UG/PG colleges are cordially invited to participate in this event.

About College

About College: Vidya Vikas Arts, Commerce and Science College Samudrapur was established in 1989 by Vidya Vikas Shikshan Sanstha, Hinganghat with a prime objective of “Karmanya Vadhikaraste Mafaleshu Kadachan”. It is grant in aid college affiliated to Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur and is recognized as 2F and 12 B. College was first accredited by National Assessment and Accreditation Council (NAAC) In 2004 and re-accredited with a B grade in January 2015. With its complete a galaxy of faculty members, the college has been rendering sincere services for higher education since 1989. This is a three faculty College with a variety of courses both at 10+2 stage and degree level and also for PG courses with recognize Centre for Ph.D. in subject Marathi and Commerce.



Shri. Pandurangji Tulaskar
President
Vidya Vikas Education Society
Hinganghat



Dr. Umesh Tulaskar
Secretary
Vidya Vikas Education Society
Hinganghat



Dr. K. G. Rewatkar
Principal &
President of VUPTA



Dr. N. S. Shirbhate
Vice-Principal

Organizing Committee



Dr. J. N. Ramteke
Secretary of VUPTA



Mr. S. R. Sarve
Organizing Secretary



Dr. N. D. Shambharkar
Coordinator



Dr. Sharad Kuhikar
PG Coordinator



Mr. Jitendra Tomar
Lecturer

Registration Link:

For Student – <https://forms.gle/beyBDHH9WFBLys1TA>

For Teacher - <https://forms.gle/EQPCW5eAdzxueMAo9>

PROGRAM DETAILS

19/03/2022 (SATURDAY)

- Registration : 09:30 a.m. to 11.30 a.m.
- **Inauguration** : **11:30 p.m to 12:30 p.m.**
- Lunch : 12:30 p.m. to 01:30 p.m.
- **Screening Test** : **01:40 p.m. to 03:40 p.m.**
- Popular Talk : 04:00 p.m. to 05:30 p.m.
- **Elocution Competition** : **05:30 p.m. to 06:30 p.m.**
- Dinner : 07:15 p.m.
- Cultural Activity

20/03/2022 (SUNDAY)

- Tea and Breakfast : 08:30 a.m to 09:00 a.m.
- **Seminar Talk** : **09:00 a.m. to 01:00 Noon**
- Lunch : 01:00 p.m. to 02:30 p.m.
- **Valedictory function** : **02:30 p.m. to 03:30 p.m.**

RULES FOR SEMINAR COMPETITION

- Registration fees per student Rs. 300/-
- Registration fees per Teachers Rs. 450/-
- Each student is allowed to deliver a seminar talk for 7 minutes and 2 minutes will be given for question-answers.
- Judge's decision will be final.
- Travailing expenses are not admissible.
- Six participants will be allowed from each college.
- The students participation from M.Sc. (Physics) may prepare any topic of their choice.
- All the Colleges must confirm their participation by post or on telephone number given below on or before 15/03/2022

Bank Details:

Account Name : Mr. PRINCIPAL VIDYA VIKAS COLL SEC
Account Number : 00000011708589794
IFSC Code : SBIN0005445
MICR Cide : 442002442
CIF No. : 81401853202
UPI ID : VV11708589794@SBI



FOR POSTERS/CHARTS

Topics for Posters

- i. Recent Development in Physics
 - ii. Impact of Physics on Science & Society
- ◆ Students should prepare a poster of Size (1m x 1m) clearly depicting their idea.
 - ◆ A team of two students will be allowed to present a poster.
 - ◆ Registration of all the students is mandatory.
 - ◆ A student presenting a poster will not be allowed to participate in seminar competition.
 - ◆ There is no restriction of number of participants for poster competition

TOPICS FOR VUPTA SEMINARS-2022

B. Sc. – SEM- II

1. Simple Harmonic Motion (Diff. Eqⁿ. and its solution)
2. Lissajous's Figures and their demonstration by C.R.O.
3. Forced oscillation (Diff. Eqⁿ. and its solution)
4. Estimation of molecular diameter and mean free path
5. Kepler's law's of planetary motion
6. Carnot's Heat Engine, its efficiency and Carnot's Theorems
7. Thermodynamic scales of temperature.
8. Joule-Thomson Porous plug experiments
9. Maxwell's general thermodynamic relationships and their applications
10. Bernoulli's theorem and its applications
11. Magnetic properties of materials (μ , B, H, χ etc.)
12. Magnetic Materials (Ferro, Ferri and Anti-ferromagnetic Materials)
13. Distance between planets by Parallax method
14. Gauss's law of magnetism
15. Transport Phenomenon in gases
16. Cathode Ray Oscilloscope (C.R.O.)
17. Cyclotron
18. Solar Cell

B. Sc. – SEM- IV

1. Crystal structures (Bravais lattice)
2. Crystal structures NaCl, Diamond and CsCl
3. X- Ray spectra
4. Applications of X- ray in various fields
5. Bragg's spectrometer and its application
6. Laue's theory of X- ray diffraction
7. Laser system and its applications
8. Raman effect
9. Rotational and vibrational spectra
10. Junction Field Effect Transistors (JFET)
11. MOSFETs
12. h- parameters and Equivalents circuits at low frequencies for CE-mode transistor
13. Diatomic molecules as a harmonic oscillator
14. Vector atom model
15. Distinction between MB, BE and FD statistics
16. Bias Stabilizing Circuits
17. NMR and ESR
18. Stern-Gerlach experiment
19. Solar Cell

B. Sc. – SEM- VI

1. Michelson and Morley experiment
2. Liquid drop model
3. G M counter
4. Nuclear fission
5. Lorentz transformation
6. Spectrophotometer
7. OP-AMP
8. Phase shift/ Hartley oscillator
9. De-Morgan's' theorem
10. Half adder and full adder
11. Amplitude Modulation
12. Frequency Modulations
13. Frequency Spectrum in FM
14. Propagation of Light through Optical fibers
15. Application of OPAMP as inverting amplifier
16. Action Potentials of The Human Body
17. Electroencephalogram (EEG)
18. Quantum Dots

Name of activity: VUPTA STUDENTS' SEMINAR-2022

Details of organization with Address: Vidya Vikas Arts Commerce & Science College, Samudrapur, Dist- Wardha in Collaboration with Vidarbha Universities Physics Teacher Association (VUPTA).

Date of Conduction : 19th, 20th March 2022

Participant Count: Students:- 120

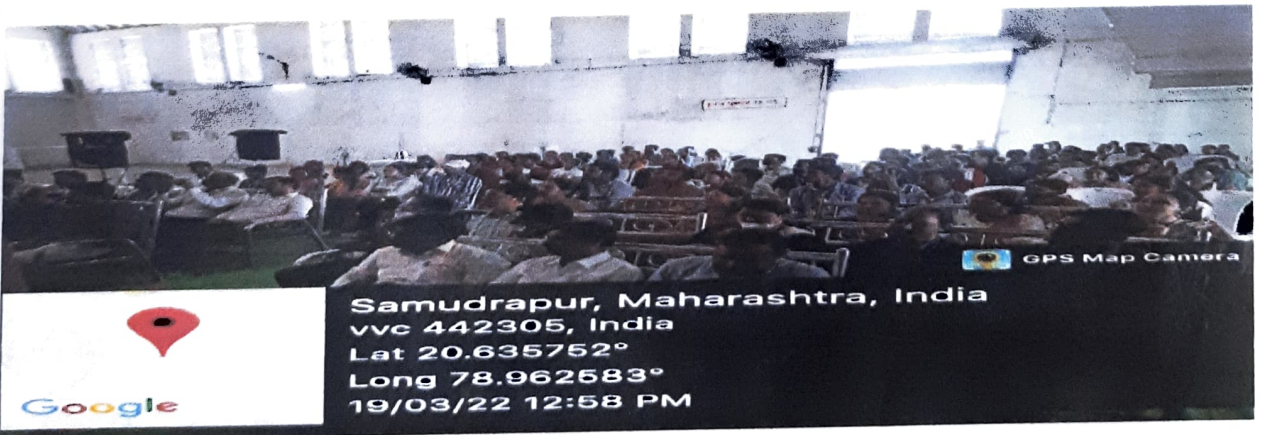
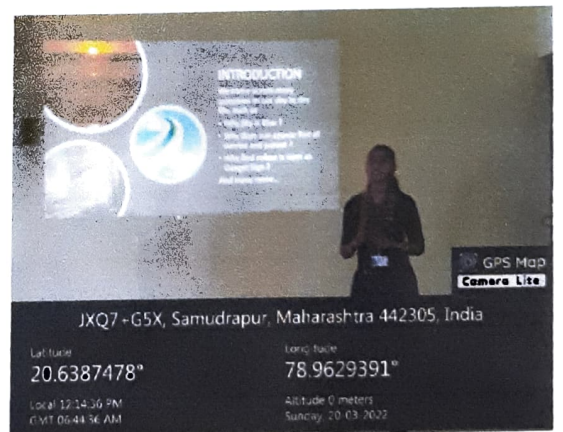
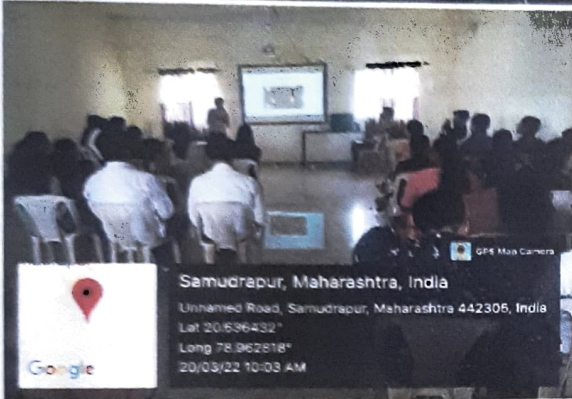
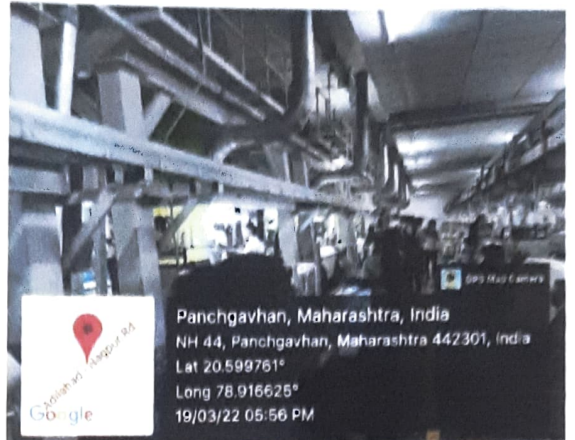
Faculty:- 30

Brief Description: The Vidya Vikas College Samudrapur in collaboration with VUPTA organized 2 days 'VUPTA Student Seminar-2022' on 19th, 20th March 2022 in which 150 students and faculty members of three universities actively participated. The inauguration of the seminar held on 19th March 2022 and the chief guest was Shri. Bhupendraji Shahane, Managing Director, P V Textile Jam. The screening test was conducted on 19th March in which 70 students participated before seminar competition. The industry visit was conducted at P V Textile Jam and Popular talk of Dr Nilesh Ugemuge on 'Time & Stress Manegment' was conducted in afternoon session. Poster competition and Elocution competition was organized at Indoor Stadium in which 20 students of different College participated. The seminar competition was organized on 20th March 2022 for B Sc Sem- II, IV, VI and M Sc Sem- II, IV students nearly 100 students participated in Seminar Competition. The 'VUPTA Student Seminar-2022' validatory function and prize distribution was organized on 20th March, Dr. Ishwar Mohurle, Principal S S Jaiswal College, Ajuni/ Mor. Was the chief guest for the event. The feedback was collected from all participants in the seminar for the further improvement and enrichment. The other university faculties and students are happy with the successful and knowledge enrichment organization of the seminar.

Outcomes of the activity:

- 1. The college students' interaction with different universities students and faculty members.**
- 2. Development of communication skill and subject knowledge enrichment.**
- 3. Industrial Visit at P V Textile Jam, Samudrapur.**
- 4. Participation and involvements of students in Elocution Competition.**
- 5. Seminar delivered by nearly 100 students of B Sc and M Sc.**

Photos:



Vidya Vikas Education Society, Hingnaghat

VIDYA VIKAS ARTS, COMMERCE & SCIENCE COLLEGE, SAMUDRAPUR

&

VIDARBHA UNIVERSITY PHYSICS TEACHERS ASSOCIATION (VUPTA)



STUDENT'S SEMINAR-2022

CERTIFICATE

Dr./Prof./[✓]Mr./Ms./Mrs Rohit S. Hatwar (B.sc VI sem)

of Vidya Vikas College, Samudrapur has participated in the Vidarbha level
"Student's Seminar-2022" jointly organised by the Department of Physics, Vidya Vikas Arts,
Commerce and Science College, Samudrapur and Vidharbha University Physics Teachers
Association (VUPTA) on 19th - 20th March 2022.

He/She was awarded _____ prize in Seminar/Poster Competition.


Dr. N. D. Shambharkar
Coordinator


Mr. S. R. Sarve
Organising Secretary


Dr. J. N. Ramteke
Secretary of VUPTA


Dr. K. G. Rewatkar
Principal

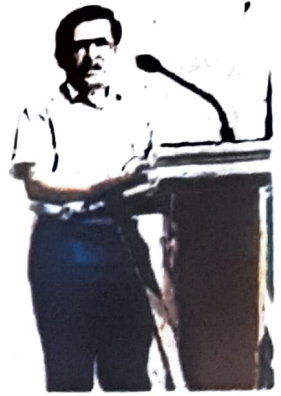
विविध विद्यापीठातील 150 विद्यार्थ्यांचा सहभाग

विद्या विकास महाविद्यालयात विद्यार्थी परिसंवाद

समुद्रपूर. वा. स्थानिक विद्या विकास महाविद्यालयात विदर्भ युनिव्हर्सिटीज फिजिक्स टीचर्स असोसिएशनच्या वतीने विद्यार्थ्यांकडून दोन दिवसीय विद्यार्थी परिसंवादाचे आयोजन करण्यात आले. राष्ट्रसंत तुकडोजी महाराज नागपूर विद्यापीठ, गोंडवाना विद्यापीठ आणि संत गाडगेबाबा विद्यापीठ अमरावती विद्यापीठातील 150 हून अधिक विद्यार्थी आणि प्राध्यापक सहभागी झाले होते.

परिसंवादाच्या उद्घाटन समारंभात अध्यक्षस्थानी डॉ. उमेश तुळसकर होते तर उद्घाटक म्हणून पीव्ही टेक्सटाईल चे व्यवस्थापक भूपेंद्र शहाणे उपस्थित होते. तर प्रमुख अतिथी म्हणून व्हूपटा चे सचिव डॉ. जितेंद्र रामटेके, महाविद्यालयाचे प्राचार्य डॉ. किशोरचंद्र रेवतकर, उपप्राचार्य डॉ. नयना शिरभाते, डॉ. राजमहम्मद खिराणी मंचावर उपस्थित होते.

उद्घाटन प्रसंगी बोलताना भूपेंद्र शहाणे यांनी विद्यार्थ्यांच्या व्यक्तिमत्ता विकासासाठी अश्या



परिसंवादाची आवश्यकता असते तर यामधून प्रात्यक्षिक ज्ञान मिळते तर सचिव डॉ. उमेश तुळसकर यांनी विद्यार्थ्यांच्या सर्वांगीण विकासासाठी महाविद्यालयात विविध उपक्रम राबविले जात असून विद्यार्थ्यांना विविध क्षेत्रातील ज्ञान त्यांचे पर्यन्त पोहचविण्या करिता विद्या विकास शिक्षण संस्था अग्रेसर आहे असे विचार व्यक्त केले. प्राचार्य डॉ. के. जी. रेवतकर म्हणाले की, या प्रकारच्या सेमिनार उपक्रमामुळे विद्यार्थ्यांना मदत होईल. तर डॉ. जितेंद्र रामटेके, वियुफिटीअ सचिव यांनी आपल्या भाषणात विद्यार्थ्यांच्या सर्वांगीण विकासासाठी विद्यार्थी चर्चासत्राची गरज अधोरेखित

केली. डॉ. नयना शिरभाते यांनी परिसंवादाचे स्वागत केले तर सदानंद सार्वे यांनी आभार मानले. नीलेश उगेमुगे तसेच वरोरा येथील आनंद निकेतन महाविद्यालयातील प्राध्यापकांनी मार्गदर्शन केले. समारोपीय कार्यक्रमात संस्थेचे अध्यक्ष पांडुरंग तुळसकर अध्यक्ष स्थानी होते तर प्रमुख अतिथी म्हणून प्राचार्य डॉ. ईश्वर मोहरले होते. परिसंवाद आयोजनाकरिता डॉ. नितेश शंभरकर, प्रा. मेघशाम ढाकरे, डॉ. विठोबा चंदनखेडे, डॉ. शिल्पा समदूरकर, डॉ. विजय मनवटकर, डॉ. नितीन अखूज, डॉ. प्रमोद अलोने, ले. जितेंद्र तोमर, अजय मोहोड व शिक्षकेतर कर्मचा-यांनी सहकार्य केले.



VIDYAVIKAS SHIKSHAN SANSTHA, HINGANGHAT

**VIDYAVIKAS ART'S, COMMERCE & SCIENCE COLLEGE,
SAMUDRAPUR DIST. WARDHA 442305 (M.S.)**

(Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur.)

email: vidya_vikascollege@rediffmail.com website: www.vidyavikascollege.com

Ph. & Fax No. 07151 225560, 9096943636, 9822426769 (Estd. 1989)

Dr. K. G. Rewatkar
Principal

(NAAC Accredited B 2013)

No. VVCS/ /2022

Date: 15/03/2022

To,

Shri. Bhupendraji Shahane

Manager, PV Textile Jamb

Samudrapur-442305

Subject: Invitation as Chief Guest in VUPTA Students Seminar-2022.

Respected Sir/madam,

Respected Sir,

On behalf of the Vidya Vikas Art's, Commerce and Science College, Samudrapur and Vidarbha University Teacher's Association (VUPTA), I heartily invite to you as Chief Guest on the occasion of "VUPTA Students Seminar - 2022" on 19th March 2022 at Vidya Vikas Arts Commerce and Science College, Samudrapur. Please accept the invitation.

Your guidance will be beneficial to students and faculty for the future growth.

Details of it are as below:

Date: 19.03.2022

Day: Saturday

Time: 11.30 am

Thanking you

Yours faithfully

Principal

**Vidya Vikas Art's Commerce
& Science College, Samudrapur
Dist. Wardha 442305**