

Shri. Shivaji Education Society, Amravati's

Mahatma Fule Arts, Commerce & Sitaramji Chaudhari Science College, Warud, Dist. Amravati

AAVISHKAR-2022

मा विद्या या विमुक्तये
Sant Gadge Baba Amravati University, Amravati
AAVISHKAR 2022
A Research Convention that provides a Platform to Exhibit Innovative Ideas,
Original Thinking, Scientific Attitude and Creativity

CREATE SUSTAIN PROSPER

PHASE - I

DISTRICT LEVEL AAVISHKAR

Venue & Dates

DISTRICT	VENUE	DATE
Amravati District	P. R. Pote College of Engineering and Management, Amravati	12/12/2022
Akola District	Shri. R. L. T. College of Science, Akola	10/12/2022
Buldhana District	Pankaj Laddhad Institute of Tech. & Management Studies, Buldhana	13/12/2022
Washim District	M.S.P. Arts, Science & K.P.T Commerce College, Manora, District Washim	10/12/2022
Yavatmal District	Amolakchand Mahavidyalaya, Yavatmal	14/12/2022

PHASE - II

UNIVERSITY LEVEL AAVISHKAR

Sant Gadge Baba Amravati University, Amravati
Date : 16 - 17 December, 2022 | Time : 8.30 am to 6.00 pm

CHIEF-PATRON
Dr. Dileep Malkhede
Hon'ble Vice-Chancellor

Dr. V. S. Chowbe
Hon'ble Pro-Vice-Chancellor

NODAL OFFICER
Dr. S. S. Sherekar
I/C Director,
Innovation, Incubation & Linkages

Dr. T. R. Deshmukh
Registrar

COORDINATOR
Dr. Vaishali Dhanvijay
Professor & Head,
Department of Home Science

DISTRICT LEVEL ORGANIZERS

Amravati	Dr. D. T. Ingale (Principal)	M. 9422157902
	Dr. Somdatta Tondre (Coordinator)	M. 9422153885
Akola	Dr. V. D. Nanoti (Principal)	M. 9822724504
	Dr. P. T. Agrawal (Coordinator)	M. 7588793195
Buldhana	Dr. P. M. Jawandhiya (Principal)	M. 9763717428
	Mr. S. M. Dandage (Coordinator)	M. 9921394713
Washim	Dr. N. S. Thakare (Principal)	M. 8975184724
	Dr. M. N. Iqbal (Coordinator)	M. 9890606510
Yavatmal	Dr. R. A. Mishra (Principal)	M. 9890047278
	Dr. A. B. Lad (Coordinator)	M. 9822460072

Apply your mind through Innovative approach for the benefit of Society

मानवाची प्रगती संशोधनाच्या पायावर सुरु आहे. नवनवीन संशोधनामुळे माणसाचे जीवन समृद्ध होत आहे. मानवी मंदुच्या कार्यक्षमतेला मर्यादा नाही त्यामुळे नवनवीन कल्पनांना आणि शोधक वृत्तीला बंधने नाहीत. प्रत्येक क्षेत्रात संशोधनात्मक आविष्कारांनी प्रगतीची लिमिटेड कारणांनी झेप घेतलेली आहे. व्यक्ती, समाज, देश आणि संपूर्ण जग विविध क्षेत्रातील समस्यावरील संशोधनामुळे प्रगतीशील आहेतच पण अंतराळ आणि पृथ्वीचा गाभा देखील जाणून घेण्यास संशोधनामुळे शक्य झालेले आहे.

संशोधन मूल्ये व्यक्तीत रुजवण्यात शिक्षण व्यवस्थेची भूमिका अत्यंत महत्वाची असते. तपशिलवार संशोधनाद्वारे विद्यार्थ्यांचे विचार कौशल्य, प्रभावी विश्लेषण कौशल्य, संप्रेषण कौशल्य आणि इतरही कौशल्ये विकसित होत असतात जे सर्वांगीण उन्नतीसाठी आवश्यक असतात. विद्यार्थ्यांच्या लपलेल्या नाविण्यपूर्ण वैज्ञानिक प्रतिभा ओळखून त्यांना संशोधनक्षमता विकसित करण्यासाठी संधी प्रदान करणे तसेच संशोधनाचा दर्जा वाढविण्यासाठी संशोधकांमध्ये स्पर्धात्मकता निर्माण करणे या उद्दिष्टांसह विद्यार्थ्यांमध्ये संशोधनाला चालना देण्याच्या दृष्टीकोनातून महाराष्ट्राचे तात्कालिक माननीय राज्यपाल आणि महाराष्ट्र राज्यातील विद्यापीठांचे कुलपती यांनी २००६-०७ या त्रैशिकक वर्षापासून आविष्कार-महाराष्ट्र राज्य आंतर विद्यापीठ संशोधन अधिवेशन सुरु केले आहे.

पदवी, पदव्युत्तर आणि पदव्युत्तेतर अशा तीन वेगवेगळ्या पातळ्यांवर सहा क्षेत्रांमध्ये विद्यार्थी त्यांच्या संशोधनाची मांडणी पोस्टर किंवा मॉडेलच्या स्वरूपात मराठी, हिंदी किंवा इंग्रजी भाषेत सादर करू शकतात.

LEVELS OF PARTICIPATION

Under Graduate (UG) (Below Age of 25 years) Post Graduate (PG) (Below Age of 30 years) Post PG (PPG) (Registered for M.Phil. & Ph.D.)

Each Participant Should Produce Identity Card Duly Signed by Competent Authority

MODES OF PRESENTATION Poster, Model (Working/ Static) **LANGUAGE OF PRESENTATION** English | Marathi | Hindi

RULES AND GUIDELINES
For registration form, "Rules and Guidelines" and other details please visit university website : www.sgbau.ac.in

STATE LEVEL AAVISHKAR
Winners will represent the University at State Level Aavishkar to be held at Savitribai Phule Pune University, Pune during 11-14 January 2023

CATEGORIES
Category 1: Humanities, Languages and Fine Arts
Category 2: Commerce, Management, Law
Category 3: Pure Sciences
Category 4: Agriculture and Animal Husbandry
Category 5: Engineering & Technology
Category 6: Medicine and Pharmacy

LAST DATE OF ENTRIES FOR UNIVERSITY LEVEL
All UG / PG / Post PG. Categories From University Departments should send their entries directly to the University Coordinator on or before 12 December 2022

Coordinator
Dr. Vaishali Dhanvijay
Aavishkar Cell, Sant Gadge Baba Amravati University, Amravati- 444 602
Contact No. 9881737357, Email: coordinatoravishkar@sgbau.ac.in

Sant Gadge Baba Amravati University organizes Research Convention for Students - Aavishkar every year to encourage students to showcase their research potentials.

Aavishkar - 2022 is organized first at the district level and students selected in the District Level Aavishkar will participate in the University Level Aavishkar.

Selected participants from the University level Aavishkar will represent the University in the State Level Aavishkar organized at Savitribai Phule Pune University, Pune during 11-14 January 2023. The information regarding the objectives, levels of participation, categories and areas covered under each category and general eligibility criteria for participation are given in this brochure.

Registration link for participation

https://docs.google.com/forms/d/e/1FAIpQLScFHjbuuuw0-HckcUi7X1tZMA_HYWiTLIV0hZFSX5btR3GgwQ/viewform?usp=sf_link

For registration and other details to participate in the District Level Aavishkar, please contact District Coordinators.

For Participation in the University Level Aavishkar, Please contact

Dr. Vaishali Dhanvijay
Coordinator, Avishkar
Cell 9881737357,
8208407726

The schedule of the Aavishkar 2022 is as follows

District	Venue	Dates	District Coordinators
Amravati	P R Pote College of Engineering and Management, Amravati	12/12/2022	Dr. Somdatta Tondre 9422153885
Akola	Shri R L T College of Science, Akola	10/12/2022	Dr. Poonam Agrawal 7588793195
Buldhana	Pankaj Laddhad Institute of Technology and Management Studies, Buldhana	13/12/2022	Dr. Sachin Dandge 9921394713
Washim	M S P Arts, Science and K P T Commerce College, Manora, District Washim	10/12/2022	Dr. M Nafees Iqbal 9890606510
Yavatmal	Amolakchand Mahavidyalay, Yavatmal	14/12/2022	Dr. Ajay Lad 9822460072

University Level Aavishkar	Venue: Department of Physics, Sant Gadge Baba Amravati University Near Tapovan Gate, Amravti 444602	16-17 December, 2022
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Aavishkar Maharashtra State Inter- University Research Convention

1. Objectives

- To identify the hidden innovative scientific talents and capacities of the students and provide them opportunities to inculcate research aptitude.
- To create competitiveness among the researchers to enhance the quality of the research.
- To appreciate the researchers and provide financial aid in the form of fellowship to promote the research.

2. Categories and Levels

Students of the University are allowed to participate in any of the following category irrespective of their own discipline / programme / course-

Categories

Category 1: Humanities, Languages and Fine Arts

Category 2: Commerce, Management and Law

Category 3: Pure Sciences

Category 4: Agriculture and Animal Husbandry

Category 5: Engineering and Technology

Category 6: Medicine and Pharmacy

The students can participate in any of the above categories in the following levels where fit eligible-

Levels

Level 1: Undergraduate Students (UG)

Level 2: Postgraduate Students (PG)

Level 3: Post PG Students (PPG)

Areas Covered under each Category

Category 1: Humanities, Languages and Fine Arts

It covers research areas like arts, languages, literature, social sciences, fine arts, journalism, mass media, education, physical education, performing arts, library sciences, humanities and other related fields which are of social interest like agricultural extension, preventive medicine and veterinary sciences, etc. However, technical innovations for the benefit of society cannot be a part of this category.

Category 2: Commerce, Management and Law

It covers research areas like commerce, accountancy, management, finance, banking and insurance, law and other fields where these disciplines are applicable.

Category 3: Pure Sciences

It covers areas like all basic sciences, soil sciences, home sciences and other fields like biotechnology, microbiology, environmental sciences, life sciences, biochemistry, biophysics, bioinformatics, bioanalytical, etc.

Category 4: Agriculture and Animal Husbandry

It covers areas like horticulture, agriculture, agronomy, entomology, fisheries, animal husbandry and other fields like biotechnology, microbiology, biophysics, biochemistry, bioanalytical chemistry, etc. where agricultural and animal husbandry aspects are covered.

Category 5: Engineering and Technology

It covers all branches of engineering and technology. It also includes computer science, information technology, data sciences, agricultural engineering, food technology, dairy technology, biophysics, biomedical and biosensor, etc. where engineering and technology aspects are covered.

Category 6: Medicine and Pharmacy

It covers all branches of medicine and pharmacy. It also includes veterinary medicine, preventive medicine, epidemiology, clinical studies, etc.

3. The General Eligibility Criteria for Participation

- (1) The full time bonafide student enrolled for UG / PG / M.Phil. / Ph.D. / D.Sc. / D.Lit. programme in the affiliated college / constituent college / recognized institute / academic department of the Representing University is eligible for the participation.
- (2) The student enrolled in UG Diploma Programme of the affiliated college / constituent college / recognized institute / academic department of the Representing University which is of a minimum duration of 1 academic year and whose examination is conducted by the affiliated college / constituent college / recognized institute / academic department of the Representing University subsequent to passing of 12th Class / HSC Examination or equivalent Examination is also eligible to participate in the UG level.
- (3) The student enrolled in PG Diploma Programme of the affiliated college / constituent college / recognized institute / academic department of the Representing University which is of a minimum duration of 1 academic year and whose examination is conducted by the affiliated college / constituent college / recognized institute / academic department of the Representing University subsequent to passing of graduation is also eligible to participate in the PG level.

- (4) Student enrolled in correspondence course/programme of the affiliated college / constituent college / recognized institute / academic department of the Representing University is NOT eligible for the participation.
- (5) Casual student, external student and student pursuing bridge course / programme in affiliated college / constituent college / recognized institute / academic department of the Representing University are NOT eligible for the participation.
- (6) Student enrolled in distance education institute of the Representing University is NOT eligible for the participation.
- (7) Student representing Open University shall be considered to be bonafide student of the same University and shall be eligible to participate provided he/she fulfils the eligibility criteria for levels.
- (8) Student having provisional admission in affiliated college / constituent college / recognized institute / academic department of the Representing University is NOT eligible for the participation.
- (9) Student can represent only that University where he/she is pursuing his/her degree / diploma.
- (10) The student shall NOT be allowed to represent more than 1 University during single academic year.
- (11) Student should have valid Identity Card and PRN No. / Registration No. of the Representing University from where he/she is pursuing his/her degree / diploma.
- (12) Student migrating from other University can participate only when his/her admission is regularized and he/she gets admitted as a bonafide student.
- (13) Student from any discipline can participate in any category to which his/her research project fits.**
- (14) Any disqualification of a participant on the ground of given criteria may result in removal of the participant from the 'Aavishkar: Maharashtra State Inter-University Research Convention' to be held in the following three years including current year of the participation.
- (15) Ethics of research must be delicately observed by the student and his/her mentor.

4. Eligibility Criteria for Levels

- (1) The eligibility criteria for each level are as follows-
 - (A) Undergraduate Students (UG)**
 - i) A full time bonafide student enrolled in UG programme of the affiliated college / constituent college / recognized institute / academic department of the Representing University is eligible for the participation.
 - ii) A student enrolled in UG Diploma Programme of the affiliated college / constituent college / recognized institute / academic department of the Representing University which is of a minimum duration of 1 academic year

and whose examination is conducted by the affiliated college / constituent college / recognized institute / academic department of the Representing University subsequent to passing of 12th Class / HSC Examination or equivalent Examination is also eligible to participate in the UG level.

- iii) The age of the student should not be more than **25 years** as on 30st September of the academic year in which the convention is being held.

(B) Post-Graduate Students (PG)

- i) A full time bonafide student enrolled in PG programme of the affiliated college / constituent college / recognized institute / academic department of the Representing University is eligible for the participation.
- ii) A student enrolled in PG Diploma Programme of the affiliated college / constituent college / recognized institute / academic department of the Representing University which is of a minimum duration of 1 academic year and whose examination is conducted by the affiliated college / constituent college / recognized institute / academic department of the Representing University subsequent to passing of graduation is also eligible to participate in the PG level.
- iii) The age of the student should not be more than **30 years** as on 30st September of the academic year in which the convention is being held.

(C) Post PG Students (PPG)

- i) A student who has post graduate degree and is duly registered for M.Phil. / Ph.D. / D.Sc. / D.Litt. degree in the affiliated college / constituent college / recognized institute / academic department of the Representing University is eligible for the participation.
- ii) A student pursuing Post-doctoral Research in the affiliated college / constituent college / recognized institute / academic department of the Representing University is not eligible for the participation.
- iii) A student who has submitted their synopsis / thesis for his/her M.Phil. / Ph.D. / D.Sc. / D.Litt. degree and his/her viva-voce examination is awaited, is also eligible for the participation.
- iv) A student who has successfully completed his/her viva-voce examination for his/her M.Phil. / Ph.D. / D.Sc. / D.Litt. degree is NOT eligible.
- v) There is **no age limit** for the PPG students.

(2) Rules for Computing Years for UG and PG levels

- a) Not more than 7 years have elapsed since a student passed the examination qualifying him/her for first admission to a UG degree or diploma course of the affiliated college / constituent college / recognized institute / academic department of the Representing University.
- b) Further, students can participate for 1 year more than the normal length of the academic programme which he/she is following.

Explanation

The restriction of participation to a period of one year more than the length/duration of academic course means that students pursuing a three year degree programme (i.e.B.A, B.Sc., B.Com., etc.) can participate for four years, while a student pursuing four year programme (i.e. B.E., B.Tech., etc.) can participate for five years.

(3) Rules for Computing Years for PPG level

Not more than 5 years have elapsed since a student was admitted to the M.Phil. /Ph.D. programme of the affiliated college / constituent college / recognized institute
/academic department of the Representing University.

Dr. Vaishali Dhanvijay
Coordinator, Avishkar
Cell Professor and
Head Department of
Home Science
Sant Gadge Baba Amravati
University Mardi Road,
Amravati – 444602 9881737357,
8208407726

SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI



A RESEARCH CONVENTION FOR STUDENTS

AAVISHKAR 2022



December 16, 2022

INVITATION

To,

Respected Sir/ Madam,

We solicit your august presence at the Inaugural and Valedictory Functions and Activities under University Level Research Convention "AAVISHKAR - 2022"

INAUGURAL FUNCTION

Chair Person

Dr. Dileep Malkhede

Hon'ble Vice-Chancellor

Sant Gadge Baba Amravati University, Amravati

Chief Guest

Dr. Vinayak Deshpande

Hon'ble Vice-Chancellor

G. H. Raisoni University, Amravati

Guest of Honour

Dr. V. S. Chowbe

Hon'ble Pro-Vice Chancellor

Sant Gadge Baba Amravati University, Amravati

Date: December 16, 2022 | Time: 11:30 am

Venue

Auditorium, Department of Physics

Sant Gadge Baba Amravati University, Amravati

RSVP

Dr. T. R. Deshmukh

Registrar

Dr. S. S. Sherekar

I/c. Director, IIL

Dr. V. P. Dhanvijay

Convener

Dr. Kapil Kamble

Organizing Secretary



SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI
University Level Student Research Convention



AAVISHKAR 2022

CERTIFICATE OF MERIT

This is to certify that Mr. /Ms. /Mrs. SIDDHARTH K. GANVIR of M.F. Arts, Commerce & S.C Science Mahavidyalay, Warud has participated in University Level Student Research Convention "AAVISHKAR-2022" organized by Aavishkar cell, Sant Gadge Baba Amravati University, Amravati during December 16-17, 2022. His/Her research project entitled "Arduino UNO based fully to burst fire sensing & protection system" under the Category of HLF/CML/PS/AAH/ET/EM has been awarded First Prize/Second Prize at UG/PG/PPG Level.

Dr. T. R. Deshmukh
Registrar

Dr. S. S. Sherekar
Director, IIL

Dr. Vaishali Dhanvijay
Convener

Dr. Kapil Kamble
Organizing Secretary





Aavishkar 2022

Research Convention for Students that provide platform to exhibit innovative ideas, Original Thinking, Scientific Attitude & Creativity

1st
Prize

December 16-17, 2022

Organized By

SANT GADGE BABA AMRAVATI UNIVERSITY

सुविचार
कमलेली नाती आणि जिकलेले
मन ज्याला सांभाळता येते, तो
आयुष्यात कधीच हारत नाही

संपादक - अनिल अग्रवाल

मातृभूमि

संस्थापक : स्व. ब्रजलालजी विद्यापी

पी.व्ही.नरसिंहरावांच्या
पुतळा अनावरणाने निमंत्रण
कोश्यारींनी नाकारले!
॥ सचिंलल वृष आनील पाणवड



90 वर्ष जुनं ते सोनं

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FACEBOOK.AMRAVATIINIKMATRUBHUMI

महात्मा फुले महाविद्यालयातील विद्यार्थी

सिद्धार्थ गणवीरला संशोधन स्पर्धेत प्रथम मानांकन

ता.प्रतिनिधी। १९ डिसेंबर

वरुड - श्री शिवाजी शिक्षण संस्था अमरावती द्वारा संचालित महात्मा फुले कला, वाणिज्य व सितारामजी चौधरी विज्ञान महाविद्यालयातील इलेक्ट्रॉनिक्स विषयात संशोधन करणारा विद्यार्थी सिद्धार्थ गणवीर यांनी संत गाडगेबाबा अमरावती विद्यापीठस्तरीय संशोधन स्पर्धेमध्ये प्रथम मानांकन पटकविले आहे.

संत गाडगेबाबा अमरावती विद्यापीठामध्ये १६ व १७ डिसेंबर रोजी झालेल्या अविष्कार स्पर्धेमध्ये विद्यार्थ्यांची वैज्ञानिक वृत्ती, अभिनव कल्पना, मुळ विचार आणि सर्जनशीलता या गुणांना चालना देण्याकरीता पदवी, पदवित्तर व संशोधन या तिन गटातून अविष्कार स्पर्धेचे आयोजन करण्यात आले होते. संत गाडगेबाबा अमरावती विद्यापीठ यांच्या माध्यमातून विद्यापीठ अंतर्गत अमरावती, अकोला, यवतमाळ, वाशीम आणि बुलढाणा येथे जिल्हास्तरीय स्पर्धेचे आयोजन करण्यात आलेले होते.



सिद्धार्थ गणवीर यांना पुणे येथील सावित्रीबाईफुले विद्यापीठ, येथे होऊ घातलेल्या राज्यस्तरीय स्पर्धेकरीता संत गाडगेबाबा अमरावती विद्यापीठाचे प्रतिनिधित्व करण्याची संधी प्राप्त झालेली आहे. अविष्कार स्पर्धेचे उद्घाटन संत गाडगेबाबा अमरावती विद्यापीठाचे कुलगुरु डॉ.दिलीप मालखेडे तर समारोपीय कार्यक्रमाच्या अध्यक्षस्थानी प्रकुलगुरु डॉ.विजयकुमार चौबे, कुलसचिव डॉ.तुषार देशमुख, नांदेड येथील रामानंद तीर्थ मराठवाडा विद्यापीठचे प्रा.डॉ.कांबळे, समन्वयक डॉ.वैशाली धनविजय, प्रा.डॉ.स्वाती शोरेकर, माजी कुलगुरु डॉ.कमलसिंग आदी

मान्यवर उपस्थित होते. यावेळी मान्यवरांच्या हस्ते सिद्धार्थ गणवीर यांना प्रशस्तीपत्र व स्मृती चिन्ह देवून सन्मानित करण्यात आले. या स्पर्धेत यश संपादन केल्याबद्दल श्री शिवाजी शिक्षण संस्था अमरावतीचे अध्यक्ष हर्षवर्धन देशमुख, महाविद्यालयाचे प्राचार्य डॉ.गजानन चौधरी, इलेक्ट्रॉनिक्स विषयाचे संशोधन मार्गदर्शक प्रा.डॉ.गिरीधर रेड्डी, विभागप्रमुख प्रा.राजेश झोटिंग, प्रा.डॉ.संजय सातपुते, प्रा.डॉ.उमेश चौधरी, प्रा.डॉ.वसंत बावणे, प्रा.डॉ.रमेश वाडबुधे, प्रा.डॉ.राजेश गणोरकर, प्रा.डॉ. सुनिल कोंडुलकर, प्रा.डॉ. युवराज तामगाडगे, प्रा.डॉ.के.डी. इंगळे, प्रा.डॉ. व्ही.एस.पंचवटे, प्रा.डॉ.अतुल वंजारी, प्रा.डॉ.चतुर्भुज कदम, प्रा.रश्मी चर्जन, प्रा.वैष्णवी केवटे, प्रा.खुशबु देशमुख, नरेंद्र तिडके यांच्यासह सर्व शिक्षक व शिक्षकेत्तर कर्मचाऱ्यांनी अभिनंदन केले असून पुढील राज्यस्तरीय स्पर्धेकरीता शुभेच्छा दिल्या आहेत.

CERTIFICATE

PARTICIPATION



P. R. Pote College of Engineering & Management, Amravati

Under the aegis of

Sant Gadge Baba Amravati University, Amravati

District Level Inter-Collegiate Research Festival

Aavishkar-2022

This is to certify that

Mr. Siddharth K. Ganvir

of College/Institution: **Mahatma Fule Art's, Commerce & Sitaramji Chaudhari Science Mahavidyalay ,Warud** has actively participated in "AAVISHKAR-2022" at District Level in the category of **HLF** at **PPG** level organized by **Avishkar Cell, Sant Gadge Baba Amravati University, Amravati** and hosted by **P. R. Pote College of Engineering & Management, Amravati** on 12th December 2022.

He/She stood **1st** in the category **HLF** at **PPG** level.

Dr. S.M. Tondre
Amravati District Co-ordinator

Dr. D.T. Ingole
Principal PRPCEM