



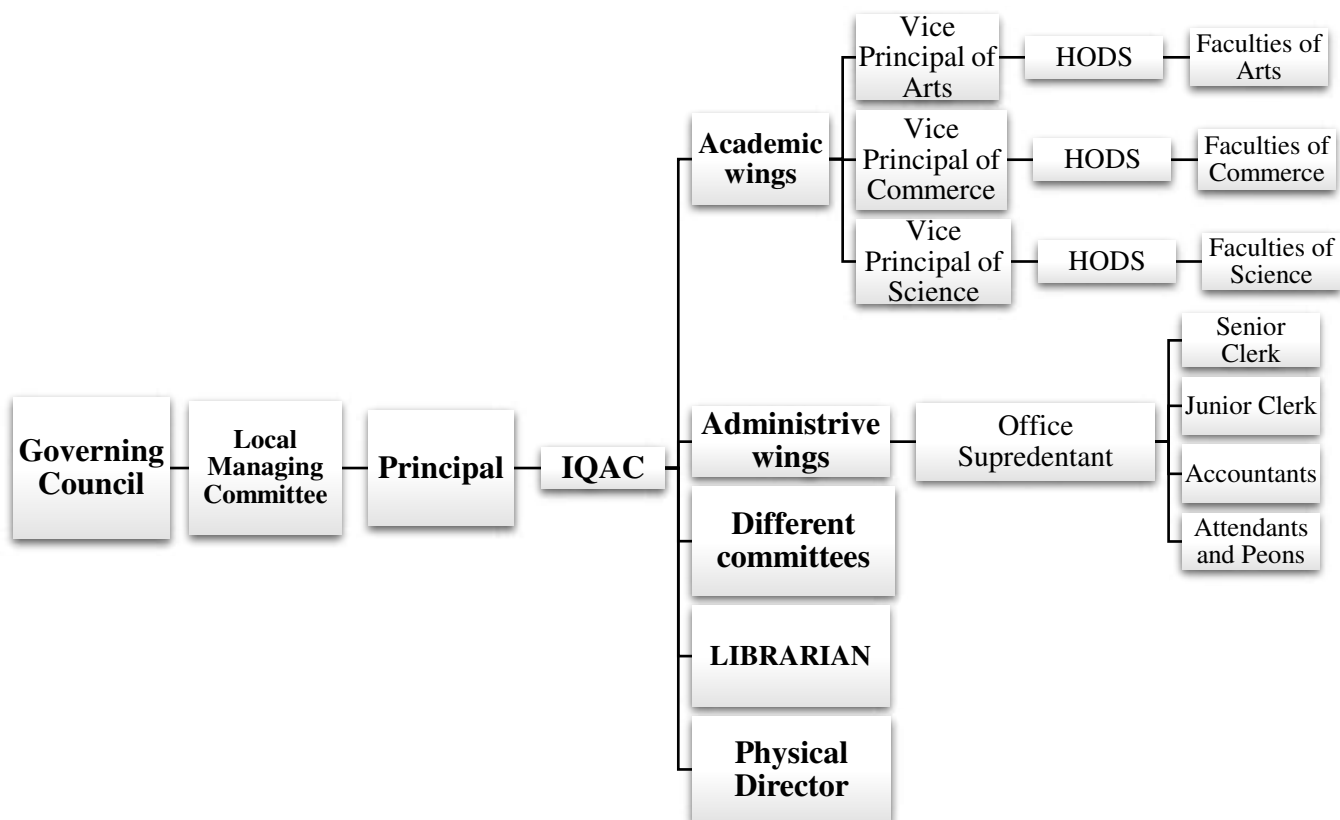
Anekant Education Society's

**JAYSINGPUR COLLEGE JAYSINGPUR**

INTERNAL QUALITY ASSURANCE CELL (IQAC)

Email: iqacjspcollege@gmail.com

### ORGANOGRAM



Sr. No.	Name of the committees	Function of the committees
1	College Development Committee	<ul style="list-style-type: none"> <li>• The CDC shall meet at least twice a year.</li> <li>• To approve the budgetary provision for the development of College.</li> <li>• To endorse the recommendation made by Internal Quality Assurance Cell (IQAC).</li> <li>• Prepare an overall inclusive development plan of the college concerning academic, administrative and infrastructural growth, and facilitate College to promote excellence in curricular, co-curricular and extracurricular activities.</li> </ul>
2	Admission committee	<ul style="list-style-type: none"> <li>• To oversee screening of students seeking admission in College.</li> <li>• Distribute brochures, hand outs and display posters depicting salient features of college.</li> <li>• To consider and adopt all efforts to attract students, such as- Printing of brochures, handouts, Advertisements, Banners, written appeals, etc.</li> </ul>
3	Institutional Academic Calendar committee	<ul style="list-style-type: none"> <li>• Academic Calendar Committee will prepare the annual academic calendar of the college.</li> </ul>
4	Time- table Committee	<ul style="list-style-type: none"> <li>• The Committee shall plan, and prepare time tables for regular classes, practicals and shall see to it that all departments are allocated equal number of classes during the academic session/semester.</li> </ul>
5	Examination committee	<ul style="list-style-type: none"> <li>• To make all essential arrangements to conduct internal and university examinations.</li> <li>• To carry out all examinations, publish results within time and award degree certificates (Provided by the University and Institute) to the students.</li> <li>• To conduct all examination according to rule and regulation lay down by Shivaji University, Kolhapur.</li> <li>• To maintain transparency and accountability in examinations.</li> </ul>

6	Research consultancy and extension committee	<ul style="list-style-type: none"> <li>• To promote research attitude among the students.</li> <li>• To promote faculty to apply for major and minor research projects for various funding agencies.</li> <li>• To acquire skills of research, develop leadership as well as involve social activities for the benefit of mankind.</li> <li>• To promote students and teachers to participate in AVISHKAR competition.</li> <li>• To promote consultancy, establish linkages and MoU's</li> </ul>
7	Academic audit and students feedback	<ul style="list-style-type: none"> <li>• To conduct the internal and external academic and administrative audit with the help of IQAC.</li> <li>• To collect the feedback on curriculum, teachers and college from all the stakeholders and do analysis and take proper measures for improvement.</li> <li>• To prepare the agenda and minutes of the meetings</li> </ul>
8	Discipline, Anti-ragging and Grievance Redressal Cell	<ul style="list-style-type: none"> <li>• The Committee shall assure that discipline is adhered in the College by the Students.</li> <li>• The Committee shall lay down the College rules and regulations to be followed by the College Community and shall enforce the same.</li> <li>• The Committee shall decide on disciplinary matters pertaining to Students and Staff. Set mechanism for prevention of ragging of students of the college</li> </ul>
9	Magazine & publications	<ul style="list-style-type: none"> <li>• To raise resources for publication of the magazine "Jaydeep".</li> <li>• To receive the articles, reports, poems from the students as well as staff and edit the same.</li> <li>• To make sure before the publication that not a single report, article is not plagiarized.</li> <li>• To get the magazine printed by end of April and distribute the same to students and staff.</li> </ul>

10	Science Association	<ul style="list-style-type: none"> <li>• The Celebration of several days related to science and organizes programmes related to science.</li> <li>• To create scientific approach among the students.</li> </ul>
11	Internal Quality Assurance Cell (IQAC)	<ul style="list-style-type: none"> <li>• Development and application of quality benchmarks/parameters for various academic and administrative activities of an institution</li> <li>• Dissemination of information on various quality parameters of higher education</li> <li>• Organization of workshops, seminars on quality related themes and promotion of quality circles</li> <li>• Documentation of the various programmes / activities leading to quality improvement</li> <li>• Acting as a nodal agency of the institution for quality related activities</li> <li>• Preparation of the Annual Quality Assurance Report(AQAR) to be submitted to NAAC based on the quality parameters.</li> <li>• To prepare for the NAAC assessment and accreditation.</li> </ul>
12	Students welfare committee	<ul style="list-style-type: none"> <li>• To develop a student as a versatile personality with academic excellence and a commitment to a democratic society.</li> <li>• To apply for various proposal for ShivajiUniversity,Kolhapur for financial assistance.</li> <li>• To bridge the gap between rural and urban India.</li> </ul>
13	Earn and Learn Scheme	<ul style="list-style-type: none"> <li>• To help economically weak students; they are selected and allotted the job in the college campus and paid the honorarium</li> </ul>
14	UGC - Proposal Committee	<ul style="list-style-type: none"> <li>• To prepare proposals for grants and do necessary steps to receive grants.</li> <li>• To work as bridge between UGC and respective college.</li> <li>• To implement the policies which are recommended by UGC</li> </ul>

15	N. S. S.	<ul style="list-style-type: none"> <li>• College NSS unit shall function according to the specified Guidelines lay down by the NSS Department of Shivaji University, Kolhapur.</li> <li>• To arrange discussions and workshops of group of students on a regular basis on issues of social importance, ethical relevance and moral values.</li> <li>• To arrange social service groups and outdoor filed activities.</li> <li>• To support and involve students in social service activities</li> </ul>
16	N. C. C.	<ul style="list-style-type: none"> <li>• To develop qualities of character, courage, comradeship, discipline, leadership, secular outlook, spirit of adventure and sportsmanship.</li> <li>• To fill the ideals of selfless service among the youth to make them useful citizen.</li> <li>• To participate the students in various extension activities.</li> <li>• To arrange different training camps and adventurous activity camps all over India for NCC cadets.</li> </ul>
17	Cultural activities	<ul style="list-style-type: none"> <li>• To plan and schedule cultural events for the academic year. (Tentative dates to be included in the academic calendar of the institute) by delegating various tasks.</li> <li>• The Cultural Committee shall be responsible for all intra and inter collegiate cultural events in the College.</li> <li>• To do the necessary procedure to organize cultural events.</li> <li>• To communicate about various festivals and events to be celebrated in the college and give a wide publicity.</li> <li>• To arrange events for staff and students in coordination with „Students Cultural Committee“.</li> </ul>
18	Staff welfare	<ul style="list-style-type: none"> <li>• To work for the benefit and welfare of teaching and nonteaching staff and provide a channel to interact with each other.</li> </ul>

		<ul style="list-style-type: none"> <li>• To organize and conduct staff meetings and maintain the record of meetings.</li> <li>• To ensure favourable working environment for members of staff.</li> <li>• To organize Welcome/ Farewell programmes for the faculty. To provide financial support to staff members in times of illness and difficulties.</li> <li>• To implements varies staff welfare schemes for teaching and non-teaching staff.</li> </ul>
19	College Beautification Botanical and Campus garden	<ul style="list-style-type: none"> <li>• To celebrate various days related to environment.</li> <li>• To organize various programmes, like- Save environment campaign, tree plantation and Cleanliness drive, plastic free campus, no vehicle day etc. on the campus.</li> <li>• To seek funding, make proposals and develop the Botanical Garden in college campus.</li> <li>• To prepare Flora and Fauna of the college.</li> <li>• To maintain eco-friendly atmosphere in the college.</li> </ul>
20	Alumni association	<ul style="list-style-type: none"> <li>• To maintain an up-to-date and detailed database of the alumni.</li> <li>• To highlight the success of alumni to improve the credibility and reputation of college.</li> <li>• To promote the interests and welfare of alumni association.</li> <li>• To plan on bringing together the former students and make efforts to contribute to the college on various aspects.</li> <li>• To conduct the Alumni meet.</li> <li>• To involve the Alumni for overall development of the college.</li> </ul>
21	Protection and prevention of persons from sexual harassment	<ul style="list-style-type: none"> <li>• To help women to realize their rights of freedom.</li> <li>• To treat sexual harassment as a misconduct and initiate disciplinary actions for such misconduct.</li> <li>• To support the distressed Women to place the complaint.</li> <li>• To provide safety and security for</li> </ul>

		women in workplace.
22	Parent-Teacher Association	<ul style="list-style-type: none"> <li>• To allot the mentee (Students) for every teacher (Mentor) to every academic year.</li> <li>• To act as a bridge between parents and college for smart communication.</li> <li>• To guide the student regarding academic, stress, financial and career related issues. To provide the personal counselling to students.</li> </ul>
23	Placement and Counselling Cell	<ul style="list-style-type: none"> <li>• To arrange Campus interview for students.</li> <li>• To organize the seminar/workshop regarding placement and career opportunities.</li> <li>• To help the students job and career related issues.</li> <li>• To bridge between Jaysingpur college, Jaysingpur and Swahimani diary for placement and training.</li> </ul>
25	Student Council	<ul style="list-style-type: none"> <li>• To promote an environment favourable to educational and personal development.</li> <li>• To support the management and staff in the development of the College.</li> <li>• To represent the views of the students on matters of general concern to them.</li> <li>• To organize the various student centric activities.</li> </ul>
27	Website Committee	<ul style="list-style-type: none"> <li>• To collect information about the latest events and achievements and get it posted on college website in write ups and pictures.</li> <li>• To upload and update the data required for NAAC point of view.</li> <li>• To update all communications, notices, announcements, etc on a regular basis.</li> <li>• To make improvement in the website with respect to design on a continuous basis.</li> </ul>
28	Publicity and News	<ul style="list-style-type: none"> <li>• To work for writing, editing, and distributing news releases to the news media.</li> </ul>

		<ul style="list-style-type: none"> <li>• To prepare activity report of each and every programme conducting on college.</li> <li>• To maintain an up-to-date list of news media for College.</li> <li>• To manage a website with up-to-date information of college activities.</li> <li>• To maintain a photo documents.</li> </ul>
29	NAAC Committee	<ul style="list-style-type: none"> <li>• To prepare NAAC SSR.</li> <li>• To prepare quality policy of the college.</li> <li>• To make necessary arrangement for peer team visit.</li> <li>• To work as a think tank for the college development and sustenance of quality culture.</li> <li>• To fulfill the NAAC peer team recommendation in subsequent cycles.</li> </ul>
30	Innovation and Incubation Centre	<ul style="list-style-type: none"> <li>• To inculcate a culture of innovation driven entrepreneurship.</li> <li>• Promotion of new technology/ knowledge.</li> <li>• To build a vibrant start-up ecosystem, by establishing a network between academia, industries, and other institutes.</li> </ul>



## | PATRONS |

**Prof. Dr. P. S. Patil**

(Pro-Vice Chancellor, Shivaji University, Kolhapur)

**Prof. Dr. D. T. Shirke**

(Vice Chancellor, Shivaji University, Kolhapur)

**Shri P. P. Patil**

Treasurer

**Dr. M. R. Akkole**

Secretary

**Dr. S. B. Adadande**

Chairman

Local Committee, Jaysingpur College, Jaysingpur

All members, Local Committee, Jaysingpur College, Jaysingpur

## | ORGANIZING COMMITTEE |

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**Prof. Dr. T. G. Ghatage**

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**Prof. Dr. Mrs. V. V. Chougule**

Coordinator

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Treasurer

**Prof. Dr. N. P. Sawant**

Organizing Secretary

**Mr. R. D. Shinde**

I.Q.A.C. Co-coordinator, JJC

**Dr. P. P. Chikode**

Advisor, IQAC

## | MEMBERS |

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**Dr. Mrs. S. S. Shelake**

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**Dr. Miss. V. B. Devkar**

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**Mr. A. B. Kamble (I/C Office Supritendent)**

**Mr. R. K. Kamble**



Anekant Education Society's

**JAYSINGPUR COLLEGE, JAYSINGPUR**



Affiliated to Shivaji University, Kolhapur  
Reaccredited with 'A' grade by NAAC (CGPA 3.24)  
DBT STAR Supported College & Research & Development Cell  
Dist. Kolhapur, PIN-416101 Maharashtra

**DIAMOND JUBILEE CELEBRATIONS**  
**2023-24**

One Day National Conference on  
**HUNDRED YEARS OF INDIA**  
**16<sup>th</sup> March, 2024**



**ORGANIZED BY**  
**Faculty of Humanities & Internal Quality Assurance Cell**  
On the occasion of  
**Diamond Jubilee of Jaysingpur College, Jaysingpur**

## | VENUE |

**Conference Hall, Jaysingpur College Jaysingpur**

## Dear participants

We have immense pleasure to welcome you all for this conference on the occasion of Diamond Jubilee year Celebrations. We hope that your gracious presence and active participation will help to make this event successful.

### About College

Jaysingpur College, Jaysingpur, established in the year 1964 is the pride of the city. In the year 2023-24 we are celebrating Diamond Jubilee of the college. It has four faculties : Arts, Commerce, Science and Computer Science, Community College in Food Processing and preservation and B.Voc. in Automobile and Printing and Publishing. It runs 15 graduate and 5 post graduate Departments in addition to B.C.A. and B.C.S. The College has endeavored to enrich the concept of learning and introduced various non-conventional, vocational and professional courses to incorporate skill oriented, value-added, add-on courses in the College as a parallel sub-discipline. Its premises are spread over in 25 acres with all necessary infrastructures like main building, centralized library, gymkhana, Boy's hostel, Girl's hostel, Bhirdi hall, 400 meter running track, canteen, vidhyarthi bhandar, DST-FIST research laboratory, Indoor stadium and Swimming Pool. All departments are enriched with full fledged equipments and infrastructure. Department of Physics and Chemistry are recognized as research laboratories. Recently DBT has sanctioned STAR College Status to our college.

### Theme of Conference

India, also known as Bharat is the seventh largest country by area and it is the world's most populous democracy. India has been a federal republic since 1950, governed through a democratic parliamentary system with a pluralistic, multilingual and multi ethnic society. It is a megadiverse country, displaying high biological diversity with a rich agricultural land by irrigation.

Apart from its many religions and sects, India is home to innumerable castes and tribes as well as, to more than a dozen major and hundreds of minor linguistic groups.

Indian Culture is the heritage of social norms and technologies that originated in or are associated with the ethno - linguistically diverse India. In the hundred years, India has gone through drastic changes in many ways. The theme of the Conference throws light on various aspects of India in the recent hundred years.

1. शंभर वर्षातील मराठी भाषा व साहित्यातील स्थित्यंतरे
2. शंभर वर्षातील मराठी भाषा संवर्धन व विकास
3. सौ बरस का हिंदी काव्य साहित्य
4. सौ बरस का हिंदी कथा साहित्य
5. सौ बरस का हिंदी कथेत्तर साहित्य
6. शिक्षणाची बदलती संरचना - अंमलबजावणी व भविष्यातील आव्हाने
7. Modern Trends in Indian English Literature
8. Dimensions of Feminism in Indian English Literature
9. India and Diaspora Literature
10. Hundred years of Indian Tourism
11. Political Geography in Recent Hundred Years
12. Environmental Changes and Global Warming During the Century
13. Changes in Agriculture Sector in the Century
14. Transitions in Industrial and Service Sectors in the Century
15. Psycho-social Changes in Indian Society
16. Impact of Technology on Human Behavior
17. Political Psychology in Current Scenario
18. Contribution of Women to Socio-political and Cultural Movements of the Century
19. Socio-religious Movements in the Century
20. Mahatma Gandhi, Pandit Jawaharlal Nehru and Dr. B. R. Ambedkar : Thoughts and its Relevance.
21. India and International Politics.
22. Changing Nature of Party Politics in India.
23. Women Empowerment and Opportunities in Recent Scenario
24. Modern Generation and the Approach to Skill Enhancement

## Paper Submission Guidelines

Full-length Papers should include an abstract (Upto 300 words) along with the author's full name, affiliated institute, mobile no. & email address.

Papers in English must be submitted in MS-Word and PDF formats, adhering to A4 size with 1.5 line spacing in Times New Roman font size 12, for Marathi & Hindi use Unicode font size 14.

\* The word limit for full-length paper is 1500 to 2000 words.

All the research papers will be published online with ISBN without any extra charges after 15th April, 2024.

### Submission of Abstract & Papers :

Email : nationalconferencecj@gmail.com

### Contact

Prof. Dr. T. G. Ghatage (7722036399)

Prof. Dr. Mrs. V. V. Chougule (9423860371)

Dr. R. L. Koli (9657197666)

Mr. S. V. Chougule (9011353197)

\* All the papers will be accepted for presentation only. \*

### Call for Registration

Participants are requested to submit their abstract along with registration form online at

<https://forms.gle/wXpu3dheWiVk2cRs9>

share payment details (Screen shot) with online registration form.

### Submission Deadlines

Abstract submission : Up to 10<sup>th</sup> March, 2024

### Registration Fee

S. No.	Types of Delegates	Registration Fee
01	Teacher	500/-
02	Research Students	300/-
03	UG / PG Students	150/-

Note : Registration fee is non refundable.

Registration fee covers conference kit, breakfast and working lunch.

### Advisory Committee

- Dr. V. N. Shinde (Registrar, Shivaji University, Kolhapur)
- Dr. Rajendra Kumbhar (Ex. Principal, Jaysingpur College, Jaysingpur)
- Prof. (Dr.) M. S. Deshmukh (Dean, Faculty of Humanities, SUK)
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## | PATRONS |

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(Hon. District In-charge, Shivajinagar, Kolhapur)

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All members, Local Committee, Jaysingpur College, Jaysingpur

## | ORGANIZING COMMITTEE |

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Organizing Secretary

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IQAC Co-ordinator

**Prof. Dr. T. G. Ghatage**

IQAC Co-ordinator

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**Dr. R. D. Mane** (Hon. Dist. of Haveli)

**Dr. S. S. Mahajan**

**Dr. S. R. Sabale** (Co-ordinator, M. Sc. Chemistry)

**Dr. S. R. Patil** (Hon. Dist. of Zoology)

**Dr. J. B. Patade** (Hon. Dist. of Mathematics)

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**Dr. R. S. Dhabbe**

**Mr. K. R. Kumbhar**

**Mr. U. K. Kharade**

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**Miss. A. B. Dhandale**

**Mr. A. P. Mane**

**Mr. C. R. Chivate**

**Mr. A. M. Mujawar**

**Miss. S. A. Magdum**

**Miss. H. A. Chougule**

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**Dr. S. J. Mane-Gavade**



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Dist. Kolhapur, PIN-416101 Maharashtra



# DIAMOND JUBILEE CELEBRATIONS 2023-24

2<sup>nd</sup> One Day National Conference on  
**SCIENCE AND TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT**

Sponsored by : Shivaji University, Kolhapur  
16<sup>th</sup> December, 2023



ORGANIZED BY

**Faculty of Science & Internal Quality Assurance Cell**

On the occasion of  
Diamond Jubilee of Jaysingpur College, Jaysingpur

| VENUE |

**Conference Hall, Jaysingpur College Jaysingpur**

## Dear participants

It is our immense pleasure to welcome you all for this 2nd conference on the occasion of Diamond Jubilee year Celebrations 2023-24. We hope that your gracious presence and active participation will help to make this event successful to be held on 16<sup>th</sup> December 2023.

### About College

Jaysingpur College, Jaysingpur is the pride of the city established in the year 1964. In the year 2023-24 we are celebrating Diamond Jubilee of the college. It has four faculties: Arts, Commerce, Science and Computer Science, Community College in Food Processing and preservation and B.Voc. in Automobile and Printing and Publishing. It runs 15 graduates and 5 post graduate Departments in addition to B.C.A. and B.C.S. The College has endeavored to enrich the concept of learning and introduced various non-conventional, vocational and professional courses to incorporate skill oriented, value-added, add-on courses in the College as a parallel sub-discipline. Its premises are spread over in 25 acres with all necessary infrastructures like main building, centralized library, gymkhana, Boy's hostel, girl's hostel, Bhirdi hall, 400 meter running track, canteen, vichyarthi bhandar, DST-FIST research laboratory, indoor stadium and swimming Pool. All departments enriched with full fledge equipments and infrastructure. Department of Physics and Chemistry are recognized as research laboratories for research. Recently DST Sanctioned STAR College Status to our college.

### Theme of Conference

A development in Science and technology is a leading progress on global level. Since, it is also raising issues regarding environmental degradation. Hence, sustainable development through Science and Technology is the need of today. The last century has experienced the evils of destructive science and posed the problems like global warming and environmental hazards and now it is the need of time to switch over to sustainable science and technology. Not exploitation but harvestation is key phrase of modern times therefore to think of crises of destructive science and need of sustainable science. To impart recent trends in Science and Technology for sustainable development, we are organizing this conference on the following sub themes:

1. Nanoscience and Nanotechnology
2. Synthesis of Smart Materials & Their applications
3. Space Science
4. Materials and methods for space application
5. Applied Zoology
6. Environmental pollution
7. Ecology and fishery
8. Biodiversity conservation for biological resources
9. Nature of Mathematics
10. Microbiology for sustainable development
11. Phytochemistry and Human needs
12. Biofuels
13. Data Science
14. Advanced Simulations & Modeling Techniques.
15. Agriculture for sustainable development
16. Natural products for human health
17. Sustainable utilization of medicinal plants
18. Biological pest management
19. Optics and laser technology
20. Mathematical Sciences
21. Analytical Chemistry
22. Synthetic Chemistry

## Call for Abstracts

Participants are invited to submit abstract not more than 300 words on or before 10<sup>th</sup> December, 2023 in the format of A4 size, single column, MS-Word, Times New Roman, 12 font size and single spacing including title of the paper based on original research related to themes, Author name with affiliation, contact number and e-mail, Abstract, Keywords. Participants are encouraged to display the posters on the mentioned themes of the size 1x1 meter.

All the abstracts will be published in the conference booklet.

**Selected Research Papers will be Published as Book Chapter in Book with ISBN by Paying additional fees of Rs. 300/-**

Submission of Abstract :

Email : [jjconference2023@gmail.com](mailto:jjconference2023@gmail.com)

Contact

Dr. B. M. Sargar (9850148608)

Dr. P. P. Chikole (9422408462)

Dr. G. H. Nikam (9921774219)

Dr. S. D. Lmdale (8806323229)

\* All the papers will be accepted for poster presentation only. \*

## Call for Registration

Participants are requested to submit their abstract along with registration form online at <https://forms.gle/4pGRz53vTYvvoCEH6> Registration fee is payable through D. D. in favor of Principal, Jaysingpur College, Jaysingpur or through online/RTGS/ NEFT on the following account and share payment details (Screen shot) with online registration form.

Account Name:- Principal Jaysingpur College, Jaysingpur

Bank:- Bank of Maharashtra Branch:- Jaysingpur

Acct. No:- 60409902157

IFSC Code:- MAH@0001363

## Submission Deadlines

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Prof. S. H. Thakar (Dean of Science Faculty, SUK)

Prof. K. D. Sonavane (Head, Department of Chemistry, SUK)

Prof. A. V. Ghule (Chairman, BOS Chemistry, SUK)

Prof. R. G. Sonkawade (Head, Department of USIC, SUK)

Prof. K. Y. Rajpure (Head, Department of Physics, SUK)

Prof. Ashish Deshmukh (Head, Department of Zoology, SUK)

Prof. R. V. Gurav (Head, Department of Botany, SUK)

Prof. S. B. Mahadik (Head, Department of Statistics)

Prof. P. D. Patil (Head, Department of Food Science)



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## DIAMOND JUBILEE CELEBRATIONS 2023-24

# ABSTRACT BOOK

2<sup>nd</sup> National Conference on  
SCIENCE AND TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT

Sponsored by : Shivaji University, Kolhapur

16<sup>th</sup> December, 2023



# 2<sup>ND</sup> NATIONAL CONFERENCE ON SCIENCE AND TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT

Sponsored by : Shivaji University, Kolhapur

16<sup>th</sup> December, 2023

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# 2<sup>ND</sup> NATIONAL CONFERENCE ON SCIENCE AND TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT

16<sup>th</sup> December, 2023

Dr. SUBHASH ADADANDE

CHAIRMAN,

Local Committee, Jaysingpur College



## MESSAGE

*I take this opportunity at the opening of the proceeding of National Conference 2023 to thank and express my gratitude towards those who have made this Conference successful. It gives me great pleasure to send you very good wishes for the organizers and participants of this Conference.*

*It is very appreciable that the research work of students, research scholars, eminent scientists who have earnestly participated in the Conference, is being published in this proceeding.*

*Educational institutions have a great responsibility to encourage new research ideas for sustainable development of the society as well as the environment.*

*Again I express my deep gratitude towards all those participating in this Conference and making this Conference an everlasting memorable event for the days to come.*

*With best wishes,*

# 2<sup>ND</sup> NATIONAL CONFERENCE ON SCIENCE AND TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT

16<sup>th</sup> December, 2023

**Dr. SURAT MANJARE**

**PRINCIPAL**

Jaysingpur College, Jaysingpur



## MESSAGE

*Dear Participants,*

*It is with great pleasure that I welcome you to the 2nd National Conference on Science and Technology for Sustainable Development, organized by Jaysingpur College, Jaysingpur on the occasion of our Diamond Jubilee Year Celebration. This conference is a testament to our commitment to fostering a culture of innovation and sustainability in the field of science and technology.*

*As we gather here, we are joined by college students, research scholars, and teachers from various institutions, all of whom share a common goal of advancing knowledge and promoting sustainable development. This diverse gathering of minds and expertise promises to be a rich and fruitful exchange of ideas, research findings, and best practices.*

*The theme of this conference, "Science and Technology for Sustainable Development," is particularly relevant in today's world, where the need for environmental friendly and socially responsible solutions has never been greater. Through our discussions and presentations, we hope to explore ways in which science and technology can be harnessed to address the pressing challenges facing our planet and society.*

*I encourage all participants to actively engage in the various sessions, workshops, and panel discussions, and to take advantage of this opportunity to network and collaborate with peers and experts in the field. I am confident that the knowledge and insights gained from this conference will not only benefit our individual institutions but also contribute to the larger goal of sustainable development.*

*I extend my heartfelt thanks to all the participants, speakers, sponsors, and organizers who have made this conference possible. I hope that this event will serve as a catalyst for future collaborations and initiatives that will further the cause of science and technology for sustainable development.*

*I wish you all a productive and enriching experience at the conference.*

*Best regards,*



## 2<sup>nd</sup> National Conference on Science and Technology for Sustainable Development

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## P-20: On Existence and Stability Results for Mixed Caputo Fractional Integro-Differential Equation.

Shivaji R. Tate

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### Abstract.

In this article, we study some existence and uniqueness results for a class of boundary value problem for nonlinear mixed fractional integro-differential equations with positive constant coefficient involving the Caputo fractional derivative. The results heavily depend on the Banach contraction principle and Schaefer's fixed point theorem. Also with the help of integral inequality of mixed type, we investigate the Ulam-Hyers type stability corresponding to our problem. Finally, illustrative examples are given to demonstrate our results. **2010 Mathematics Subject Classification.** 26A33; 45J05; 34K10; 45M10.

**Key words.** Fractional mixed integro-differential equation, Boundary value conditions, Caputo's fractional derivative, fixed point, integral inequality, Stability.

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## P-21: On Prime Ideal of A Partially Ordered Ternary Semigroup

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### Abstract

In this paper, the structure space of partially ordered ternary semigroups formed by the set of prime ideals is introduced. We investigate the various properties of the structure space of partially ordered ternary semigroups. We also studied interesting properties such as compactness, connectedness and separation axioms of this structure space and prove that the space of prime full ideals of a partially ordered ternary semigroup is compact. **2020 Mathematics Subject Classification:** 06F99, 20M12, 20N99.

**Keywords:** Partially ordered ternary semigroup, Prime ideal; Hull-kernel topology; Compact space.

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## P-22: Fuzzy Multi-Objective Vendor Selection Problem of Supply Chain Management

Prakash R. Chavan

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### Abstract

Today's competitive business environment depends mainly on its supply chain. An adequate supply chain gives a competitive edge to a company. Sourcing, which is the initial stage of a supply chain, can be made efficient by making an appropriate selection of vendors. Appropriate vendor selection results not only in reduced purchasing costs, decreased production lead time, increased customer satisfaction but also in improved corporate competitiveness. In general, the vendor selection problem is a multi-objective decision-making problem that involves some quantitative and qualitative factors. So, we have considered a multi-objective vendor selection problem (MOVSP) with three

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multiple objective goals: minimization of net ordering price, minimization of rejected units and minimization of late delivered units. In most of the cases, information about the price of a unit, percentage of rejected units, percentage of late delivered units, vendor rating value and vendor quota flexibility may not be known precisely due to some reasons. In this paper, imprecision in input information is handled by the concept of a simulation technique, where the parameter follows the uniform distribution. Deterministic, stochastic,  $\alpha$ -cut and ranking function approaches are used to get the crisp value of the simulated data sets. The four different algorithms, namely—fuzzy programming, goal programming, lexicographic goal programming and D1-distance algorithm, have been used for solving the MOVSP. In last, three different types of simulated data sets have been used to illustrate the work.

**Key Wards**-Vendor selection problem, Trapezoidal fuzzy number,  $\alpha$ -Cut and ranking function · Fuzzy programming, Goal programming, Lexicographic goal programming.

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### P-23: Subset Selection in Regression Based on the Linearized Ridge M-Estimator

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#### Abstract

Subset selection problem is one of the important problems in regression analysis. Various subset selection methods available in the literature are based on the Ordinary Least Squares Estimator. But, the performance of these methods is not reasonably well when the problem of outlier or multicollinearity present in the data. Very few subset selection methods account the simultaneous occurrence of outlier and multicollinearity in the data.

In this article, a subset selection criterion based on the Linearized Ridge M-Estimator is proposed. The equivalence of the proposed criterion with some of the existing criteria is established. Numerical examples are presented to evaluate the performance of the proposed estimator. Also, a simulation study is carried out to assess the model selection ability of the proposed criterion.

**Keywords and Phrases** Subset Selection, Outlier, Multicollinearity, Linearized Ridge M-Estimator.

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### L-1: Bio Medicinal Applications of Solanumincanum (Lin.) to Treat Decay of Teeth in Children, Its Indigenous Medicinal Values and Scope in Phytochemical Properties

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#### Abstract:

Present matter in this article deals with applications, observations and conclusions based on experiments was carried out during 2018-2019. Practices, Experiment, methods of decoction preparation and every minute outcomes were noted during studies. Matter in this paper is emphasizing on the medicinal importance of *Solanumincanum* L. (family Solanaceae) along with its scope for further chemical investigations. Especially decoction was made from fruits of *Solanumincanum* L. to treat decay of teeth in children due to various reasons and its positive results by means of some relief from pains (Toothache) and recovery dramatically.

Furthermore it underlines our indigenous knowledge to treat various health problems using Botanical plants /Medicinal plants (Biological materials) as an impressive remedies.

Anekant Education Society's



**Jaysingpur College, Jaysingpur**

**Diamond Jubilee Celebration 2023-24**



**2<sup>nd</sup> One Day National Conference on  
Science and Technology for Sustainable Development  
16.12.2023**

**Date: 16.12.2023**

Jaysingpur College, Jaysingpur organized, **2<sup>nd</sup> National Conference on Science and Technology for Sustainable Development** on 16.12.2023 at Library hall, Jaysingpur College, Jaysingpur on the occasion of **Diamond Jubilee year celebrations 2023**. This conference was sponsored by Shivaji University, Kolhapur.

The conference is inaugurated in presence of Ex Vice Chancellor Prof. M. M. Salunkhe, Dr. M. R. Akkole (Secretary, Local Committee, Jaysingpur College, Jaysingpur), Shri Appasaheb Bhagate, Adv. Narade Shri. Shirguppe Sir and Dr. S. A. Manjare (Principal). Prof. M. M. Salunkhe is chief guest for inaugural function. Prof. M. V. Kale discussed the objectives of the conference. Principal S. A. Manjare welcomes the chief guest and all the participants. Prof. B. M. Sargar introduced the chief guest. Function is inaugurated by lightning of lamps by all the dignitaries. Abstract book of conference and science bulletin were published in the conference. Prof. M. m. Salunkhe enlighten the theme of conference and its relevance with day to day life. Dr. G. H. Nikam proposed the vote of thanks. From various institutes, universities and colleges in India around 450 faculty, researchers and students register for conference and actively participated. Around 110 abstracts of research papers from various subjects were received for presentation in conference.

**Key Note Address:**

Key Note address of conference was delivered by Ex Vice Chancellor Prof. M. M. Salunkhe on Science and Technology for Sustainable Development. In address he discussed the new scenario regarding the Science and Technology for Sustainable Development. He discussed the principles of Sustainable Development. He also discussed chemistry for sustainable development. All the participants are actively participated in discussion after key note address,

**Session 1: Dr. Prasad Lokhande**

Resource person for first session was Dr. Prasad Lokhande from Post-Doctoral Fellow, UTEM, and SANTIAGO Chile. Dr. S. S. Mahajan introduced and felicitated resource person. This session is devoted to physical chemical and Material Science. Dr. Lokhande discussed regarding applications of materials in energy storage devices. He discussed future of energy storage devices. He presented research on hydrogen fuel cells, specapacitors and energy storage devices. Young researchers shown lot of interest in session and interacted with speaker. The session is interactive and fruitful. Dr. R. S. Dhabbe Proposed vote of thanks.

### **Session 2: Poster Presentation**

The session second was organised for poster presentation. Poster presentation was inaugurated by Prof. R. V. Gurav and Dr. Prasad Lokhande. For the poster presentation around 105 posters were presented in conference. Posters were evaluated by experts and according content, presentation rankings were allotted. Prizes for poster were distributed in valedictory function. All the delegates were actively participated and interacted with all the presenters of poster.

### **Session 3: Prof. R. V. Gurav**

Prof. Dr. R. V. Gurav (Head, Department of Botany, Shivaji University, Kolhapur) was the resource person for post lunch session. Dr. P. P. Chikode introduced and welcomes the resource person. Prof. R. V. Gurav discussed biodiversity in India and its financial aspects. He discussed plants as earning source. Dr. M. V. Kale proposed the vote of thanks. All the participants are actively participated in discussion.

### **Valedictory Function:**

Valedictory function is arranged in presence of Principal R. R. Kumbhar (Vivekanand College, Kolhapur). Dr. P. P. Chikode reviewed conference. Dr. S. A. Manjare discussed the outcomes of the conference. Dr. R. R. Kumbhar discussed the use of mathematics and statistics in the sustainable development. He discussed the use of mathematics in environmental issues. Dr. T. G. Ghatage (Coordinator, IQAC) proposed the vote of thanks.

Prof. M. V. Kale  
Convenor

