Designed by Department of Animtion Science









Rayat Shikshan Sanstha's

Yashavantrao Chavan Institute of Science, Satara (AUTONOMOUS)

Lead College, Karmaveer Bhaurao Patil University, Satara

National Seminar

"Sustainable Agriculture and Smart Technology"

(SAST-2023)

(Thursday, 16th March, 2023)

Organised by

Department of Electronics and Computer Science Ravat Institute of Research and Development (RIRD) Yashavantrao Chavan Centre for

Invention, Innovation and Incubation (YC-CIII)

Centre of Excellence in Artificial Intelligence Applications Development (COE-AIAD)

In collaboration with

Dream Foundation, Satara and Agroson Aadhar LLP Technically Sponsored by

Society for Promotion of Excellence in Electronics Discipline (SPEED), Pune



Chief Guest Padma Shri Dr. Anil K. Rajvanshi

Director and Hon. Secretary Nimbkar Agricultural Research Institute (NARI), Phaltan



Hon. Dr. B. T. Jadhav

Principal, Yashavantrao Chavan Insitute of Science, Satara (Autonomous)



Dr. Arvind D. Shaligram

Director ISRO-SPPU Space Technology Centre and CEO of SPPU Research Park Foundation

Key Note Address Data Analytics and Artificial Intelligence for Agricultural Sustainability

Panel Discussion: Sustainable Agriculture and Smart Technology



Mr. Nilesh Nalawade

Director of Education, Agricultural Development Trust,



Dr. H.V. Deshmukh Satara

President Dream Foundation,



Mr. Sharad Kadam Founder and CEO, Agroson Aadhar LLP



Dr. S. M. Nimbale Coordinator Data Centre, YCIS, Satara



Karmveer Auditorium, YCIS, Satara (Autonomous)



10,00 AM Onwards

Mr. S. R. Pol Convener- SAST-2023

Mr. S. K. Shinde Chairman, SAST-2023 Prin. (Dr.) B. T. Jadhav President- SAST-2023

Schedule of the Seminar Thursday, 16th March 2023 Chief Guest: Hon. Dr. Anil K. Rajvanshi (Padma Shri awardee) Director and Hon. Sccretary Nimbiar Agricultural Research Institute (NASI). Phalian Topic: "How to be Good Citizens" President: Hon. Dr. B. T. Jadhav Princinal, Yashavantrao Chavan Institute of Science, Satara Kev Note Address Topic: Data Analytics and Artificial Intelligence for Agricultural Sustainability Speaker: Prof. (Br.) Arvind D. Shaligram Director, ISBO-SPPU Space Technology Centre CEO, SPPU Research Park Foundation, SPPU Pune iession Chair: Prin. Dr. B. T. Jadhav /ashavantrao Chavan Institute of Science, Satara (Autonom 01.00PM - 02.00PM LUNCH BREAK Technology Technology I. Mr. Nilesh Nalawade, Director, Education, Agricultural Development Trust, Baramati Devel 2 15PM - 3 30PM Poster Exhibition and High Tea Valedictory Function

Organizing Committee

Prin. (Dr.) B. T. Jadhav President- SAST-2023 Mr. S. R. Pol Convener- SAST-2023 Mr. S. D. Jadhav Mr. G. R. Attar inizing Secretary- SAST-2023

Mr. S. K. Shinde Chairman, SAST-2023 Dr. G. S. Nhivekar Co-Convener- SAST-2023 Ms. R. U. Atar Co-coordinator- SAST-2023 Mr. A. J. Pawar Treasurer- SAST-2023

Mr. S. S. Barkade Treasurer- SAST-2023

Our Patrons

Hon. Shri. Sharadchandraji Pawar President. Rayat Shikshan Sanstha, Satara

Hon. Dr. Anil Patil Chairman, Rayat Shikshan Sanstha, Satara

Hon. Prin. Dr. V. S. Shivankar

Hon, Prin. Dr. S. G. Menkudale Jt. Secretary (H. Edu.), Rayat Shikshan Sanstha, Satar

Advisory Committee

Hon. Prof. (Dr.) D. T. Shirke

Hon. Prof. (Dr.) R. K. Kamat

Hon, Prof. (Dr.) A .D. Shaligram

Hon. Nilesh Nalawade

Hon. Dr. H. V. Deshmukh **Organizing Committee Members**

Mr. P. S. Kadam Ms. K. D. Gadekar Ms. P. V. Jadhav Ms. A. R. Sawant Ms. V. N. Pawar Ms. P. H. Gharge Ms. P. H. Gharge
Ms. R. R. Shinde
Ms. D. B. Jangam
Mrs. M. V. Pawar
Ms. Y. S. Salunkhe
Mr. N. A. Junghare
Ms. S. P. Salunkhe
Mr. R. P. Waghama
tran Chayan Institute of Ms. K. D. Salunkho







- From

Prin. Dr. B. T. JADHAV van Institute of Science, Sat



participate in National Seminar on "Sustainable Agriculture and Smartr Technology" (SAST-2023) organized by Department of Electronics and Computer Science, Yashawantrao Chavan Institute of Science, Satora (Autonomous) on Thursday, March 16, 2023. We look forward to welcome you at our institute.

About Rayat Shikshan Sanstha, Satara

Rayat Shikshan Sanstha is one of the largest educational institutions in the Asia. Karmaveer Bhaurao Patil founded Rayat Shikshan Sanstha in 1919 with a noble objective of bringing the socially and economically backward class in the mainstream by means of education. Government of India conferred on him "Padmabhushan Award" for his enormous contribution in the field of education. Presently the Rayat Shikshan Sanstha has been conducting a total of 751 branches including 42 collages, 441 secondary schools, 7 training collages, 52 primary schools (English medium-24), 42 pre-primary schools (English medium-28), 91 hostels, 7 administrative offices, 8 Ashramshalas, 3 L.T.I., 52 ancillary branches and

About Institute

Yashavantrao Chavan Institute of Science, Satara is an autonomous institute ongs to Rayat Shikshan Sanstha is re-accredited with A+ grade (CGPA 3.57) by NAAC, Banglore, Recently, it became a constituent part of Karmaveer Bhaurao Partit University, Startan, India. In this received the several recognitions from Gost-to Findia including UGCCPE, DBT-Star College Scheme, DST-FIST, UGC- Paramarsh Scheme etc & Lead College Status of Shivaji University, Kolhapur, Best College Award for NSS Unit by Govt. of Maharashtra and Shivaji University, Kolhapur, Academic Excellence Award by Shivaji University, Kolhapur and Best Autonomous College Award by Parent Body. Institute has got RUSA excellence tag along with financial assistance under RUSA Component 8. The working process of the institute is ISO 9001:2015 certified consistently since 2015. The institute offers UG (18), PG (14), M. Phil, and Ph.D (7) programs in Basic Sciences and Professional Courses

nder one roof. A well-equipped Common Facility Centre aided in the the one took. A semi-requipped Common recursive Centre and a mine engineering of the infrastructural base and mobilization of research for students of faculty. The institute has established Centre for Invention, Innovation and ubation with support from RUSA, TATA Technologies Pvr. Ltd., Singapore and strengthening of the infrastructure and faculty. The institute has e Sedence and Technology Park, Pune. Currently 3256 UG students, 782 PG students from Kerala to Jammu-Kashmir and 78 research scholars for Ph.D. programs are pursuing their education. With its focus set on the trilogy of Academics, Research and Industry, the institute is confident of providing the right base to its students thereby

About Satara City

Satara is the historical city of Marratha dynasty located in the state of Maharathra, India. It is situated on Pune-Beagoluru national highway (NH-4), 110 km away from Pune. Kase Plateau - a world naturel heritage site is just 22 km away from Satara. Other rearby places Mahabalashwar, Thosegar, Panchgarii, Saijangarh

About the Department

Department of Electronics and Computer Science, established in 1986 imparting knowledge of Electronics and Computer Science at U.G and P.G. level. The department is enriched with 25 faculties for teaching, research and extension activities and sufficient supportive staff. Department also runs a UGC spansored certifities and sufficient supportive stoff. Department also runs a UGC sponsored certifi-cate course in MATLAB Pragramming under COC Scheme. The department is recog-nized for Ph.D. and M.Phil. programs in Electronics and Computer Science. De-partment has argenized a National Seminar on "Modern Approach for Green Elec-tronics and Computing" (MAGEC-2014), National Seminar on "Invovative Trends Elec-tronics and Alled Technology" (ITEAT-2017), Two Days National bands-on "Workshap on Embedded System Design" (WESD-2016), and also organized an International Conference on "Emerging Trends in Electronics and Computing, 2021" [ETEC-7027]

Besides teaching-learning programs, other activities like Remedial Coaching, Seminars, National Science Day (NSD), project work and lectures of eminent personalities are arranged continuously and successfully. Department offerscampus hier-wise and placement services to students. Most of our alumni are holding responsible positions in dignified areas.

Sustainable development is todays need to save environment and agriculture on the earth. Sustainable development is of growing importance to the agriculture sector because the current locking utilization of resources and energy usage, together with the pollution generated from toxic chemicals, cannot continue at present rates Sustainability in agriculture can be achieved through using less (or no) poisonou chemicals, saving natural resources, and reducing greenhouse gas emissions Technology applications could help farmers to use proper data in decision-making which leads to low-input agriculture. The aim of seminar is to provide the platform to an opportunity to young researchers and aspirants to interact with renowned scientists and technologists working in the field of Agriculture, Science, technology blodiversity conservation, Bio-technology, solid state materials, nano-mai engineering, etc. on the role of smart technology implementation in susta

Registration Fee

- Venue

(SAST-2023)

Yashavantrao Chavan Institute of Science, Satara (Autonomous) 533A, Sadar Bazar, Satara – 415001, Dist: Satara, MS, India Contact

Dr. G. S. Nhivekar Mr. S. D. Jadhav

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Ms. R. U. Atar Co-Coordinator- SAST-2023 Orga

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ycis.elecomp@gmail.com



Rayat Shikshan Sanstha's



YashavantraoChavan Institute of Science, Satara

(Autonomous)

(Lead College of Karmaveer Bhaurao Patil University, Satara)

NAAC Reaccredited at A+ Grade with CGPA: 3.57, UGC-CPE-II, DBT-STAR, DST-FIST, RUSA Excellence, UGC-PARAMARSH, ISO: 9001-2015

Department of Electronics and Computer Science (Optional)

Rayat Institute of Research and Development (RIRD)



YashavantraoChavan Centre for Invention, Innovation and Incubation (YC-CIII)

Centre of Excellence in Artificial Intelligence Applications Development (COE-AIAD)

In collaboration with Dream Foundation, Satara

Technically Sponsored by

SPEED, Pune Organised National Seminar on

"Sustainable Agriculture and Smart Technology" (SAST-2023)

(Thursday, 16th March, 2023)

Report

One Day National Seminar on "Sustainable Agriculture and Smart Technology" (SAST-2023)

(Thursday, 16th March, 2023)

- Title of Activity:- "Sustainable Agriculture and Smart Technology" (SAST-2023)
 - Day and Date: Thursday, 16th March, 2023
 - ❖ Objective of SAST-2023:
 - 1) To provide an opportunity to young researchers and aspirants to interact with renowned scientist and technologists working in the field of Agriculture, Science, technology.
 - 2) To provide a platform for researchers, practitioners, and educators to present, discuss and debate the most recent research results, innovations, trends and concerns in the field of Agriculture and Electronics and Computing.

❖ Theme of SAST-2023:

Sustainable development is todays need to save environment and agriculture on the earth. Sustainable development is of growing importance to the agriculture sector because the current lacking utilization of resources and energy usage together with the pollution generated from toxic chemicals, cannot continue at present rates. Sustainability in agriculture can be achieved through using less (or no) poisonous chemicals, saving natural resources and reducing greenhouse gas emissions. Technology applications could help farmers to use proper data in decision-making, which leads to low-input agriculture.

The aim of seminar is to provide the platform to discuss the issues in sustainable development.

♣ Detail Report ♣

The One Day National Seminar on "Sustainable Agriculture and Smart Technology" (SAST-2023) organized by Rayat ShikshanSanstha's Yashavantrao Chavan Institute of Science, Satara (Autonomous Institute) Department of Electronics and Computer Science was held on Thursday, 16th March, 2023.

The primary objective of this SAST-2023was to develop innovative concepts in electronics, computer and related disciplines for the advancement of social, personal and other technologies. The main aim of thisseminarwas to discuss the issues in sustainable development.

This seminar was guided and supported by National research personalities in the field of Agriculture, science and technology.Dr. Anil K. Rajvanshi, Prof. Dr. A. D. Shaligrametc...have made great contribution towards the success of the seminar.

The seminar began at 09:00 a.m. with the tea and breakfast. Inauguration ceremony, plenary talk, Panel Discussion, Poster presentation were held from 10:30 a.m. to 05:30 p.m.

Hon.Prin. was President of SAST-2023Dr. B. T. Jadhav,Hon. Dr. Anil K. Rajvanshi, (Padma Shree Awardee) were the chief guests for Inaugural function. The conference started with the lighting of lamps by Hon. Dignitaries. On this occasion,Mr. S.K.Shinde, Chairman of SAST-2023 welcomed and felicitated all dignitaries and participants and he gave speech about remarkable journey from the establishment of departments and elaborated on the theme of seminar.

Hon. Dr. Anil K. Rajvanshi, (Padma Shree Awardee)Director and Hon. Secretory,Nimbalkar Agricultural Research Institute (NARI),Phalatanas chief guest, put forth in hisspeech How to be a good citizen. Mr. S.K. Shinde introduce the chief guest and Mr. S. R. Pol thanked them all.

From 12:00 Noon to 1:00 a.m. Prof. Dr. A. D. Shaligram, CEO, Research Park, SavitribaiPhule Pune University, Pune, Maharashtra. Hegave key note lecture on "Data Analytics and Artificial Intelligence for Agricultural Sustainability. In this talk, he gave guidance on What IoT application can be used in smart farming? How is technology making sustainable and better? Whichsensors are used for data collection? etc..On this occasion, the

keynote speaker Dr. Prof. Dr. A. D. Shaligram, was introduce by Mr. S.R.Pol and Dr. G. S. Nhivekar thanked everyone and Program was moderated by Mrs. K.D.Gadekar.

After key note talk a lunch break is announced from 01:00 p.m to 2:00 p.m

This was followed by a panel discussion session from 02:15 p.m to 04:00 p.m. For the panel discussion panelist were Mr.NileshNalwade Director, Education, Agriculturel, Development Trust, Baramati, Dr. H.V. DeshmukhPresident, Dream Foundation, Satara Mr.SharadKadamFounder& CEO, AgrosenAadhar, LLP and Dr. S. M. NimbaleAssi.Prof.YCIS.Satara.

Discussion was made on the "Sustainable Agriculture and Smart Technology" (SAST-2023) and inevitable Next Generation of Agricultural Tools. What is the future of robotics in agriculture? How technology has changed manufacturing, production level inagricultural? How data analytics used in farming? Why do we need smart farming?

After this, the last sessioni.e poster presentationwas held. During this poster presentation, about 15 participants made poster presentations. For this session, Mr.N.M.Patil, Assistant Prof. Balwant College Vita worked as examiner.

The Valedictory ceremony of the SAST-2023 started at 4:30 p.m. it was presidedHon. Dr. B.T.Jadhav, Prin. Yashavantrao Chavan Institute of Science, Satara. HonDr. H.V. Deshmukh President, Dream Foundation, Satara was the chief guest of function. Mr. S. K. Shinde introduced the Chiefguest of the Valedictory ceremony. Mr. S. K. Shinde chairman of SAST-2023 felicitate the president and chief guest, and other college faculties also. After that some participants share their views and gave feedback towards this seminar. Finally Mr. S. R. Pol thanked everyone and expressed his gratitude.

In this conference 270 Participants had registered out of these 15 participants presented their poster.

Jus -

Mr. S. R. Pol

Convener

श्राकाय दे

Mr. S. K. Shinde

Chairman SAST-2023

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Dr. B. T. Jadhav

President SAST-2023





Flowrer tribute to Hon. Yashvantrao Chavan

Respected Digniteries on the Dies







Hon. Dr. Anil K. Rajvanshi, (Padma Shree Awardee) Director and Hon. Secretory, NARI





Key Note Talk by Hon.Prof .Dr.A.D.Shaligram CEO, Research Park, SavitribaiPhule Pune University, Pune, Maharashtra

Panel Discussion by Hon. Expert



Feedback from students



Poster Presentation Opening Ceremony



Organizing Committee With Dignitaries after Seminar

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