



ST FRANCIS DE SALES COLLEGE

Permanently Affiliated to Bangalore University || AICTE Approved | Electronic City, Bengaluru - 100

Reaccredited by NAAC with 'B++' Grade || Recognised under section 2(f) & 12(b) of the UGC Act || An ISO 9001: 2015 Certified Institution

A FRANSALIAN INSTITUTE OF HIGHER LEARNING

WORKSHOP

INFECTIOUS DISEASES & CLIMATE CHANGE : NEW APPROACHES AND SOLUTION

DEPARTMENT OF SCIENCE & RESERCH & IP CELL

RESOURCE PERSON(S) WITH QUALIFICATION : KEYNOTE SPEAKER : Dr NAVEEN KUMAR R (Ph.D)

Assistant Professor , Department of Electronics ,
Ms . Ramaiah College of Arts Science And Commerce ,
Bengalore

DATE OF EVENT(s) : 09-06-2021

TARGET AUDIENCE : UG/PG

VENUE : ONLINE , ZOOM

EVENT COORDINATOR : Dr NEBULA MURUKESH



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Report on Ankuram 2021

Title	Infectious diseases & Climate Change: New Approaches and Solutions
Date of Event(s)	09-06-2021
Department / Association / Cell / Committee	Department of Science & Research & IP Cell
Venue (Mention the platform if it is Online)	Online, Zoom
Number of Participants	134
Target Audience	UG/PG Students

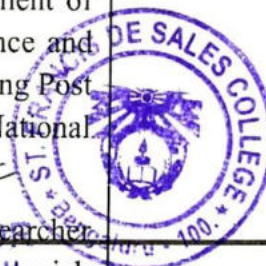
Resource Person(s) with qualification	Keynote Speaker: Dr. Naveen Kumar R. (PhD) <i>Assistant Professor, Department of Electronics, Ms. Ramaiah College of Arts Science and Commerce, Bengaluru</i>
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Place of visit/ details of Industrial visit place (if applicable):	NIL
Event Coordinator	Dr. Nebula Murukesh

Detailed Report (minimum 500 words)

Science is extremely diverse but converging and overlapping. Considering the importance of science and mathematics in today's world, it becomes essential to undertake scientific global inquires in various aspects. This seminar is a crucial step of the Department of science, St. Francis de Sales College towards bringing various branches of science and mathematics together. The seminar will focus on nurturing the research culture among Post graduate as well as graduate students through paper presentations. Ankuram 2021 National Student's seminar was conducted on 9th May 2021.

This year Ankuram 2021 could bring the students before the mindfulness of a researcher like Dr. Navin Kumar R. Assistant Professor, Department of Electronics, Ms. Ramaiah College of Arts Science and Commerce, Bengaluru - 560100



Dr. Nebula Murukesh
COORDINATOR
Research Cell
St. Francis de Sales College
Bengaluru - 560100

College of Arts Science and Commerce, Bengaluru. Dr. Naveen Kumar finished Master degree in Electronics 2010 from Kuvempu University, started research work under Professor B N Jagadale and completed PhD on 2018, Also working in association with Dr. Shiva Kumar, Director of ISRO, Satellite Center, Bangalore. Started Teaching Career as Lecturer at Government First Grade College, Hosadurga. Later joined as Lecturer at Dept. of PG Studies & Research in Electronics, Kuvempu University, Shivamogga. Presently Working as a an Assistant Professor, Department of Electronics, M S Ramaiah College of Arts, Science & Commerce, Bengaluru. During this period served as a member & Coordinator for various committees including Institutional Development Plan for NEP, AQAR of IQAC, Skill center Committee more than 10 committees at RCASC. Serving as an Associate NCC officer for NCC Air wing, RCASC affiliated to IKAR AIR SQN., Jakkur Aerodrome, Bengaluru. Also working as full time member for NGO's to create awareness at rural & tribal area children's. Dr. Naveen Kumar has many publications in leading research journals and presented research papers in many national and international conferences.

Padmavathi from PG Department of Mathematics kept guiding the students as session co-chair throughout the sessions. Also, in order to improve the efficacy of the online evaluation for best presentation and best paper, Mr. Senthil Kumar, Assistant Professor took the role of an internal evaluator for presentations.

Inaugural Session

The session started with the welcome by Ms. Smrutee Markhedkar, Head, Department of Science followed by prayer and blessings from Fr. Jijo Jose Manjackal, Vice Principal St. Francis de Sales College, Bangalore Fr. Jijo inaugurated Ankuram 2021. Later on Dr. Naveen Kumar took over the session through keynote address. Dr. Naveen Kumar took the participants through the timeline of pandemics that the world faced also explained the relevance of protecting our environment for a sustainable future and wellbeing. Dr Naveen Kumar well expressed the definition of of health researcher and an expert in electronics cold relates the current topic of infectious diseases through his talk. Desalite Hamsaveni & Ashwini J. introduced Fr. Jijo and the speaker respectively.

Technical Session 1:

The keynote address was followed by oral presentation by the student participants. There were 10 presentations under the Technical session 1 on Technology and Climate change. The presentations were focusing on Technology reviews that are useful in handling pandemic conditions, some emerging technologies like nuclear batteries, integrated and climate smart farming system architecture where presented by the students.

Technical Session 2:

Technical session 2 continued after lunch break the session was focusing on pollution studies. The Technical session 2 opened with the address by Ms. Padmavati on pollution science. Later on the session had oral presentations by students. There were 9 presentations in technical session 2. There were presentations on mathematical modelling of infectious



diseases, some basic bioremediation techniques like fermentation, environmental effects on increasing packed food habits and personal care products during pandemic and relevance of e waste management.

Valedictory Session:

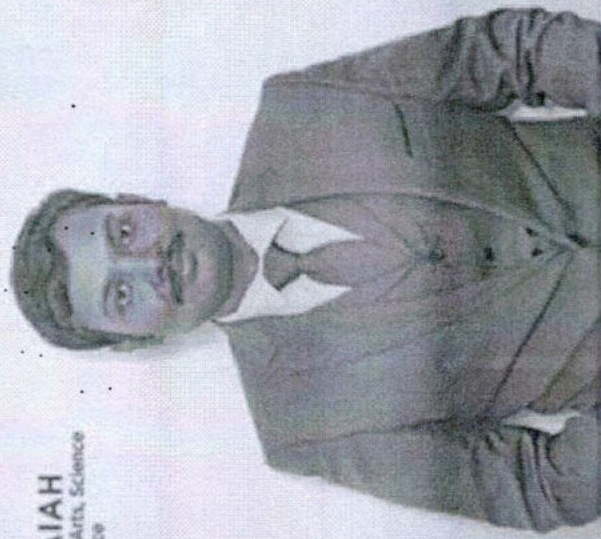
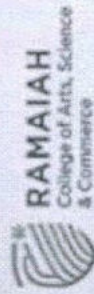
The valedictory session started with the concluding remarks by Dr. Nebula Murukesh, Coordinator, Department of Science as well as the seminar organising Secretary. Dr. Nebula consolidated the day's proceedings. There were a total of 19 presentations and 134 participants registered a maximum of 120 for participants joined for the session at the end the participants were requested to submit the feedback form through the link provided in the chat box and certificates were so that they can receive the certificate. It was also informed that presented certificate will be send separately through mail within 10 days also the best paper award winner will be intimated through mail after reviewing the papers and also by considering the recommendations of the chair and the co-chair.

Ashwini J., VI Sem BSc (PCM), St. Francis de Sales College, Bangalore was announced as the best presenter at the end of the session by Mr. Senthil Kumar, Assistant Professor, Department of Science. Later on vote of thanks was expressed by Desalite Sumiksha. The seminar ended with National Anthem.

Desalite Pooja, II Sem BSc PCM did the MC for the entire session. Desalite Jyoti Singh was assisting the chairs, Desalite Raghav Vigneswar shared all the required background through PPT and Desalite Sandeep Kurali where's the time keeper.

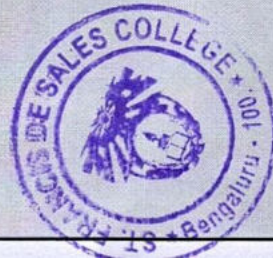
Ankuram 2021 could bring all budding researches under a platform of knowledge exchange. Through this annual event, the organisers could initiate imbibe the concept of research among students and this helped to encourage the faculty members to involve themselves in activities promoting research among students through guiding them for their research papers.


PRINCIPAL
St. Francis de Sales College
Electronics City Post, Bangalore - 560 100



Dr. Naveen Kumar

Assistant Professor
Department of Electronics,
M. S. Ramaiah College of Arts Science and Commerce
Bangalore



Dr. NAV

COORDINATOR

Research Cell

St. Francis de Sales College
Bangalore - 560100

Reactions

Breakout Rooms

Pause/Stop Recording

Share Screen

Chat

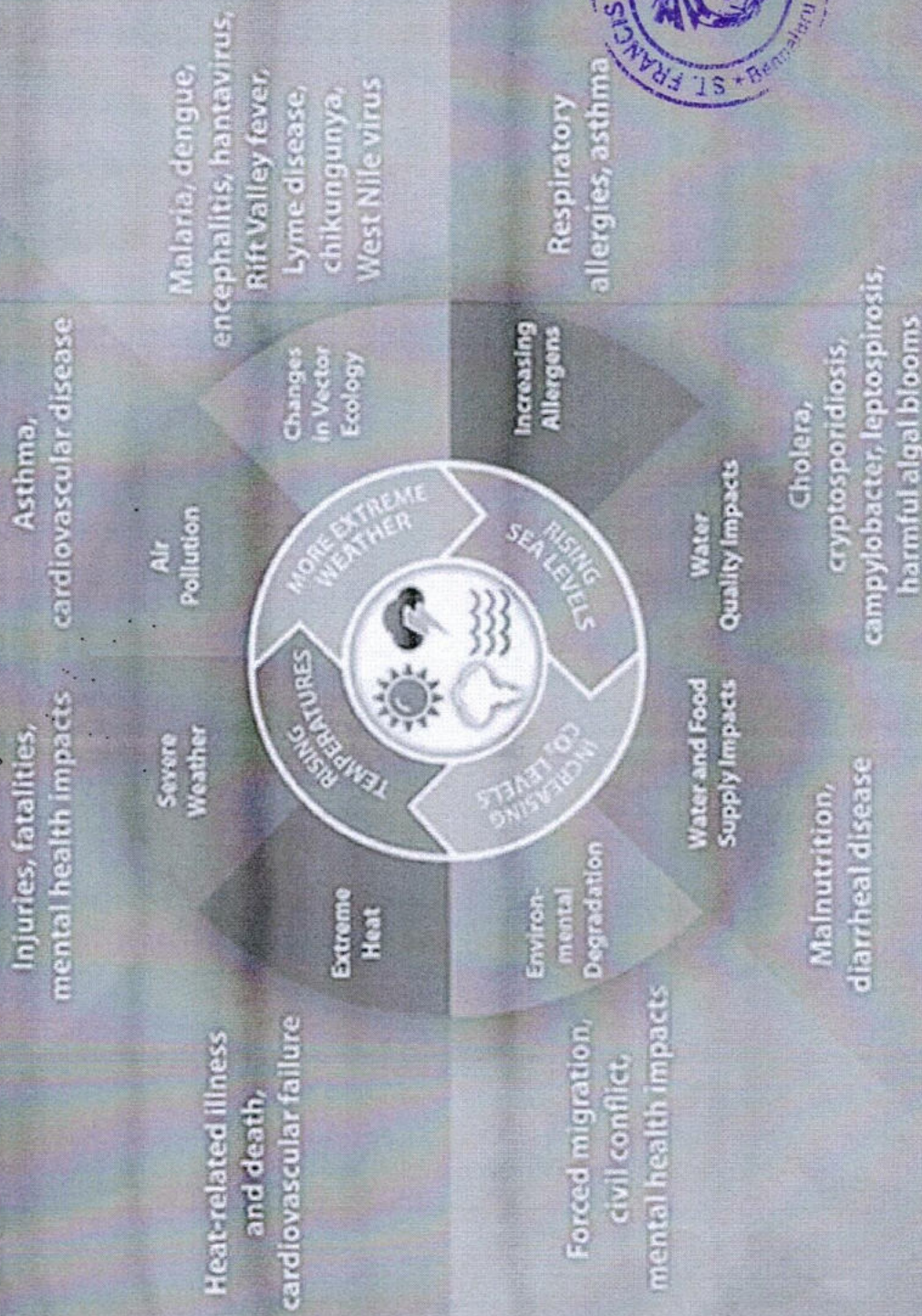
Participants

Security

Video



Impact of Climate Change on Human Health



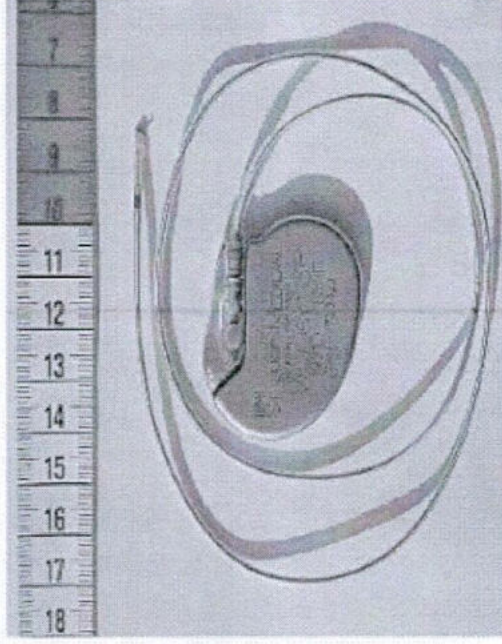
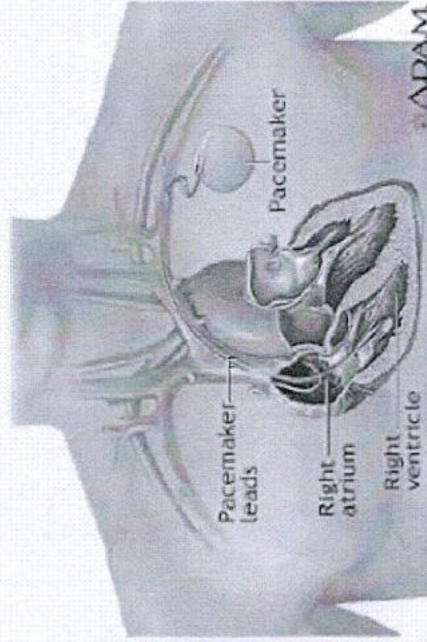
COORDINATOR

Research Cell
St. Francis De Sales College
Bangalore - 10

Dr. NAV

APPLICATIONS

- Medical Applications: Due to increased longevity & better reliability it is used in medical devices such as pacemakers, implanted defibrillators etc. In cardiac pacemakers.



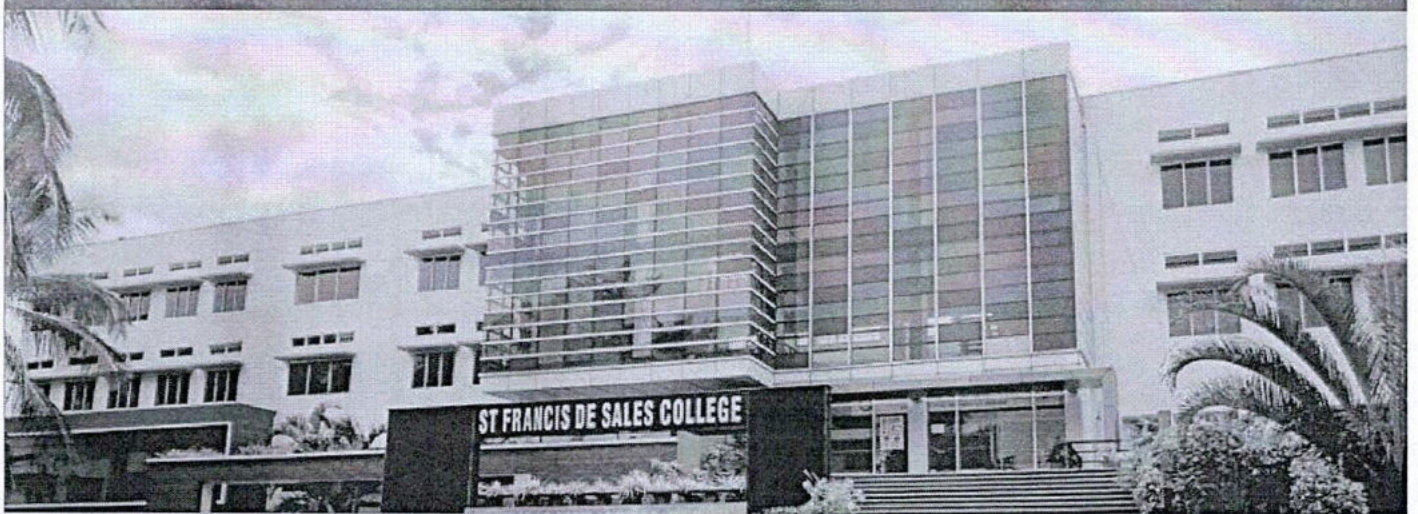


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Infectious diseases & Climate Change: New Approaches and Solutions

**ANKURAM
2021**

**Online
National Student's
Seminar
for UG/PG students**

9th June, 2021

**Free Registration
E- certificates**

Organised by
Research & IP Cell
In collaboration with
**Department of Science (UG)
&
Department of Mathematics (PG)**

Scan to Register



Registration Link
<https://forms.gle/DbpVe8s6XZXH4Gmf8>

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Research Cell
St. Francis de Sales College
Bengaluru - 560100

ABOUT ST. FRANCIS DE SALES COLLEGE

St. Francis de Sales College is managed by the Missionaries of St. Francis de Sales (MSFS) of the South West India Province, who firmly believe that '*the education of the heart is the heart of education*' as propounded by its founder, Fr. Peter Marie Mermier. The College is named after St. Francis de Sales, the patron of the MSFS. At present, the College offers BSc (PCM: Phy-Chem-Maths, MEC: Maths-Elec-Comp, CJP: Comp-Journ-Psy), BA (JPE: Journ-Psy-Opt Eng, SEP: Soc-Eco-Psy, HEP: His-Eco-Pol Sc, HES: His-Eco-Soc), BCom (FA, Voc-Travel), BBA, BCA, MCOM (Reg, FA), MSc (Psy, Maths), MA (Eng, Eco) and PG Diploma (HR, Counselling). The College also runs an Evening College to cater to the working youth and to educate them. The College has obtained the 2(f) and 12(b) recognition under the UGC Act of 1956. Now with all these new programmes introduced, the College stands ready to become an autonomous college in the near future.

ABOUT THE DEPARTMENT OF SCIENCE & POST GRADUATE DEPARTMENT IN MATHEMATICS

The department of Science was started in the year 2009 with the triple main BSc in Maths, Electronics and Computer Science. At present the department offers three Bachelors of Science courses; BSc (MEC: *Mathematics, Electronics, Computer Science*) and BSc (PCM: *Physics, Chemistry, Mathematics*), BSc (CJP: *Computer science, Journalism, Psychology*). The Department is regularly involved in activities that promotes and nurtures research aptitude in students as well as to promote science and science awareness.

The *Post Graduate Department in Mathematics* offers MSc in Mathematics.

SUB THEMES

**Water & Soil
Quality**

**Environment &
Health Physics**

**Mathematical
Modeling**

**Contribution of
Electronics**

ABOUT ANKURAM- 2021

Science is extremely diverse but converging and overlapping. Considering the importance of science and mathematics in today's world, it becomes essential to undertake scientific global inquires in various aspects. *This seminar is a crucial step of the Department of science, St. Francis de Sales College towards bringing various branches of science and mathematics together. The seminar will focus on nurturing the research culture among Post graduate as well as graduate students through paper presentations.*

CALL FOR PAPERS

•Delegates are requested to submit Abstract not exceeding 250 words using Times New Roman, Font size 12, Line Spacing 1.5, 1 inch margin on all sides and Key Words. Abstract should have title of the paper, details of the Author/s (Name, Designation, Affiliation, Mobile No. and Email ID).

•Delegates are requested to submit Full Paper not exceeding 5000 words with references using Times New Roman, Font Size 12, Line Spacing 1.5, 1 inch margin on all sides.

•The abstract and full paper should be mailed to bsc.ankuram@sfscollge.in

•Student Presenters should submit Power Point Presentation on or before date.

•Papers will be sent for Peer Review. Selected papers will be Published

•Publication fee will be intimated to the author if selected for publication

Important Dates

Abstract Submission	19 May 2021
Notification of Acceptance of Abstract	22 May 2021
Full Paper Submission	30 May 2021
Last date for Registration	5 June 2021
Seminar Date	9 June 2021

Organising Committee

Patron	: Rev. Dr. Roy P., Principal
Chairman	: Fr. Jijo Jose Manjackal, Vice Principal
Convener	:Ms. Smrutee Markhedkar , Head, Department of Science
Organising secretary	:Dr. Nebula Murukesh, Coordinator, Department of Science

Joint secretaries

Ms. Roshini Anne Koshy, Assistant Professor, Department of Science
Ms. Maya Mathew, Assistant Professor, Department of Science
Ms. Rashmi, Assistant Professor, Department of Science
Dr. Ambika Nautiyal, Assistant Professor, Department of Science
Mr. Senthil Kumar, Assistant Professor, Department of Science
Mr. Maruthi, Assistant Professor, Department of Science
Ms. Swathi S., Assistant Professor, Department of Science
Ms. Jennifer Sujitha, Assistant Professor, Department of Science
Ms. Padmavathi V., Assistant Professor, Post Graduate Department of Mathematics
Ms. Mamatha Ravi, Assistant Professor, Post Graduate Department of Mathematics

Technical Members

Ms. Inturi Aparna
Mr. Shaik Shavez Ahmed

Student Members

Mr. Raghava Vigneswar, VI Sem BSc (MEC)
Mr. Vijay Kumar, VI Sem BSc (MEC)
Ms. Sumiksha, VI Sem BSc (MEC)
Ms. Jyothi Singh, IV Sem BSc (PCM)
Ms. Delma D A, VI Sem BSc (PCM)
Ms. Pooja Bhati, I Sem BSc (PCM)
Ms. Deepika, VI Sem BSc (MEC)
Ms. Harshitha, VI Sem BSc (MEC)
Ms. Deepthi, VI Sem BSc (MEC)
Ms. Aswini J, VI Sem BSc (PCM)
Mr. Sandeep Kurali, IV Sem BSc (PCM)
Ms. Shalini Sangwan, IV Sem BSc (PCM)
Ms. Sushma, IV Sem MSc Mathematics
Ms. Rakshitha, IV Sem MSc Mathematics

Contact Details

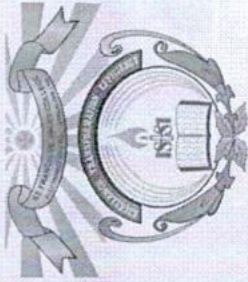
Ms. Smrutee Markhedkar
9620444559

Dr. Nebula Murukesh
8197869982

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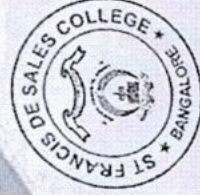
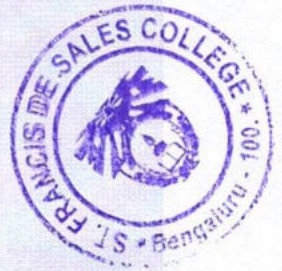
CERTIFICATE OF PARTICIPATION

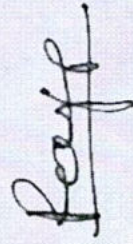
This is to certify that Swathi.L of St. Francis De Sales College

has Participated in the ANKURAM- 2021, Online National Student's Seminar- *Infectious diseases & Climate Change: New Approaches and Solutions* organised by Research & IP Cell In collaboration with Department of Science (UG) & Department of Mathematics (PG) of St

Francis de Sales College, Bangalore- 100 on 9, June 2021


IQAC Coordinator





Principal

www.sfscollege.in



COORDINATOR
Research Cell
St. Francis de Sales College
Bengaluru - 560100

Name Dr. NAVEEN KUMAR R
Qualification M.Sc, PhD
Department Electronics
Designation Assistant Professor
Experience 10 Years
E-Mail ID nkr.hsd@gmail.com



Education:

Finished Master degree in Electronics 2010 from Kuvempu University, started research work under Professor B N Jagadale and completed PhD on 2018, Also working in association with Dr. Shiva Kumar, Director of ISRO, Satellite center, Bangalore. Started Teaching Career as Lecturer at Government First Grade College, Hosadurga. Later joined as Lecturer at Dept. of PG Studies & Research in Electronics, Kuvempu University, Shivamogga. Presently Working as a an Assistant Professor, Department of Electronics, M S Ramaiah College of Arts, Science & Commerce, Bengaluru.

Academic Achievements:

During this period served as a member & Coordinator for various committees including Institutional Development Plan for NEP, AQAR of IQAC, Skill center Committee more than 10 committees at RCASC. Serving as an Associate NCC officer for NCC Air wing, RCASC affiliated to 1KAR AIR SQN., Jakkur Aerodrome, Bengaluru. Also working as full time member for NGO's to create awareness at rural & tribal area children's.

Publications – Journals

1. Naveen kumar.R, B.N.Jagadale and J.S. Bhat, "An Effective image compression algorithm using modified EZTW", Journal of Image Processing, Springer Publishers,pp:1-8(2020)
2. Dhanashri Vaishali, Lakshmipathi V, Naveen Kumar R, "A Review on Intimidation of E-tool in pandemic" , *Journal of Integrated Marketing Communications and Digital Marketing-MAT Journal Publications*, Vol 1 (2),pp19-21, 2020.
3. Naveen Kumar R, Nagarathna A, Prathiba V K, "A Review on Glioblastoma Tumor Image segmentation Technique", Journal of Medical Surgical Nursing Practice and Research, Vol 2(2), (2020)
4. Naveen kumar.R, B.N.Jagadale and J.S. Bhat, "A lossless image compression algorithm using Wavelets and Fractional Fourier transform", S N Journal of Applied sciences, Springer Publishers,pp:1-8(2019)
5. Lakshmipathi V K, Naveen kumar.R, "Attendance system by DWT and HOG face recognition techniques ", International Journal of Advance and Innovative research, Vol.6(2),pp-83-87(2019)
6. Naveen kumar.R, B.N.Jagadale and J.S. Bhat, "1d &2d Signal compression using discrete Wavelet transform: A Survey", Journal of image processing and artificial Intelligence, Vol.4(2),PP.1-10 (2018).
7. Naveen kumar.R, B.N.Jagadale and J.S. Bhat, "Medical data compression using Wavelet



- transform for Telemedicine Applications”, International Journal of Advance and innovative research, Vol.5(3), PP. 36-41(2018).
8. Naveen kumar.R, B.N.Jagadale and J.S. Bhat, “An improved image compression algorithm using Wavelet and Fractional Cosine transform”, International Journal image,Graphics and Signal Processing, Vol.10(11), PP. 19-27(2018).
 9. Naveen kumar.R, B.N.Jagadale and J.S. Bhat, “Efficient Wavelet coding Technique in DWT-DCT for colour image compression”, International Journal of Signal processing, Vol.14(3), PP. 26-32(2018).
 10. Naveen kumar.R, B.N.Jagadale and J.S. Bhat, “An Improved Neigh Shrink in Hybrid Wavelet Transform for Image Compression”, International Journal in Advanced Research in computer Science, Vol.8(3), PP. 330-333(2017).
 11. Naveen kumar.R, B.N.Jagadale, Sharvani.M, Nayana.B and Meghana.B.N, “A Lossless Image Compression using one Dimensional Discrete Fractional Fourier Transform”, International Journal of Innovative Research in Science, Engineering and Technology, Vol.6(5), PP:7828-7832(2017).
 12. Naveen kumar.R, B.N.Jagadale and J.S. Bhat, ”Improved Binary Tree coding for image compression using modified singular value decomposition”, Journal of informatics and mathematical science, Vol.10(1&2), PP: 109-119(2017)
 13. Naveen kumar.R, B.N.Jagadale and J.S. Bhat, “Hybrid Image Compression using Modified Singular Value Decomposition and Adaptive Set Partitioning in Hierarchical Tree”, Indian Journal of science and Technology, Vol.10(28), PP:1-9(2017).
 14. Naveen kumar.R, B.N.Jagadale and J.S. Bhat, “Performance Evaluation pf Walsh Wavelet transform using Wavelet threshold”, Middle East Journal of Scientific Research, Vol.24(1), PP. 128-132(2016).

Publications –International Conferences

1. “A Review of glioblastoma tumor image segmentation techniques”, International Conference on Innovative trends in Electronics and communication”, Vol.1, PP. 46-51(2019).
2. “Image contrast enhancement technique using DWT_SVD masking Technique”, IEEE sponsored, 2nd International conference on communication and Electronic system (ICCES-17), Vol.4, PP. 581-585(2017).
3. “Use of optimal threshold and T-Matrix coding in discrete wavelet transform for Image compression”, IEEE sponsored , 3rd International conference on Electronics and communication system (ICECS-16), Vol.3, PP. 1462-1465(2016).
4. “Performance Evaluation of Image compression in Walsh Wavelet transform using Wavelet Threshold”, IEEE sponsored, 3rd International conference on Innovation in information, Embedded and communication system (ICIIECS-16), Vol.4, PP. 500-503(2016).

Publications –National Conferences

1. “Optimal sub band threshold and T-matrix coding in hybrid DWT for color image compression”, National conference on Evolving Trends and Challenges in Science Education and Research, Basaveshwara college of Commerce, Arts and Science-Bangalore (2016).
2. “Wavelet based Data compression for Multimedia applications”, National conference on Science, Technology and productization, The oxford college of science-Bangalore (2015).
3. “Wavelet based biomedical signal compression for Telemedicine applications”,



JNANARJANA 2K14, The Oxford college of science-Bangalore (2014).

4. "ECG signal compression using Wavelet Transform", KSTA regional conference, JSS College of Arts, Commerce and Science-Mysore (2014).
5. "Transform coding techniques for Audio/Speech signal: A survey", National conference on Recent Trends in Electronics and its Application, GFGC, K.R.Puram-Bangalore (2014).
6. "Study on Speech signal compression using Linear Prediction Coding", National conference on Advance in Electronics and Communication Technology , Conducted by Kuvempu University, Shivamogga (2012).
7. "ECG signal de-noising using Wavelets", National conference on Advance in Electronics and Communication Technology , Conducted by Kuvempu University, Shivamogga (2012).
8. "Study on Speech Compression Technique using Linear Prediction Coding and Wavelet Techniques", 5th Annual KSTA conference, Dayanand Sagar College, Bangalore(2012).
9. "Comparative study of LPC and Wavelet Transform in speech signal compression", Emerging trends in Engineering and Management, PESIT, Shivamogga(2012).

Conferences / Seminars / Workshops / FDPs / Others – Attended

1. One day webinar on "Exponential technologies transforming IT industry" organized by BCA Department in coordination with IQAC, Baldwin Women Methodist College on 30.05.2020
2. One Day Webinar on "ADVANCED DIGITAL SYSTEM DESIGN USING VERILOG" organized by Department of Electronics and Communication Engineering , Sri Venkateswara College of Engineering and Technology, Srikakulam on 29th June, 2020 in Collaboration with LUCID INSTITUTE OF VLSI EDUCATION, Bangalore
3. One day webinar on 'Cyber Security and Technologies' organized by Department of Computer Science on 27th June 2020, at Ramaiah college of Arts, Science and commerce, Bengaluru
4. One day webinar on 'Impact of COVID-19 in Education Sector' organized by Department of Language on 4th June 2020, at Ramaiah college of Arts, Science and commerce, Bengaluru
5. Participated in a Drive on sensitizing People about COVID-19 Pandemic on 27-05-2020, Organized by BRB College of Commerce, Raichur
6. Three day webinar on 'Get Career Ready:Post COVID-19' organized by Department of MBA From 17th to 19th June 2020, at Ramaiah college of Arts, Science and commerce, Bengaluru
7. One day webinar on 'Cloud Virtual Education System Become New Normal' organized by IEEE Young Professionals Bengaluru, on 24th May 2020
8. One day webinar on 'Advance Communication system & Smart Dust Sensor' organized by Department of Electronics on 15th June 2020, at Sharana Basaveshwara College , Kalburgi Karnataka.
9. One day webinar on 'Tips to Become Successful Entrepreneur' organized by IEEE Young Professionals Bengaluru, on 8th May 2020
10. One day Faculty Development Program on "E-Resource and Digital Content" on 21st September 2019, Organized by Department of Library and Information Centre.
11. Three day Workshop on 'NAAC Assessment & Accreditation: A step by step Process' organized by Gates Institute of Technology, Andhra Pradesh from 28th to 30th May 2020
12. Two weeks State Level Faculty Development Program on " Information and Communication Technology Usage in Teaching", Organized from GFGC, Siddakatte, Bantwala from 30-05-2020 to 12-06-2020
13. One weeks National Level Faculty Development Program on " Python Programming", Organized from GFGC, Kolar from 05-06-2020 to 11-06-2020
14. One day Faculty Development Program on " Didactics for Online Teaching", Organized by Department of MBA From 2nd July 2020, at Ramaiah college of Arts, Science and commerce, Bengaluru
15. Two Week ISTE Workshop on signals and system (Under National mission on Education Through ICT by MHRD) on 2 to 12 January 2014, Conducted by IIT Karagpur, hosted by JNNCE,



Veloo
COORDINATOR
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Shivamogga.

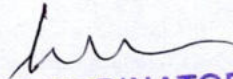
16. Three day Workshop on Pattern Classifiers on 26 to 28 March 2015, conducted by Dept. of CS, Kuvempu University, Shivamogga.
17. Participated in Silver Jubilee Science Exhibition on 16 to 19 February 2012, Kuvempu University, Shivamogga.
18. One day National seminar on Emerging trends in Electronics on 15th March 2016, Dept. of PG studies and Research in Electronics, Kuvempu University, Shivamogga.
19. Two days National seminar on Nano materials and their applications on 18th and 19th March 2016, Dept. of PG studies and Research in Physics, Kuvempu University, Shivamogga.

Awards and recognitions

1. As a BOE member for Bengaluru City University, Bengaluru
2. Award of Excellence as Coordinator for EBSB Camp Phase-5 for NCC Cdts conducted by Bangalore 'B' NCC.
3. As a BOE member for Indian Academy Degree College, Bengaluru
4. Appointed as Care Taker for NCC Air Wing, RCASC from 02-February 2020
5. Appointed as Fly-in Vigilance Officer for Semester Examinations Nov/Dec-2019 from Bengaluru Central University
6. Event Coordinator for Five day Online FDP on "online Teaching during Covid-19 Pandemic" Organized by IQAC, RCASC from 23rd to 27th June 2020
7. "Study on Speech Compression Technique using Linear Prediction Coding and Wavelet Techniques", 5th Annual KSTA conference, Dayanand Sagar College, Bangalore(2012). The paper selected as a BEST Paper.
8. "Wavelet based biomedical signal compression for Telemedicine applications", JNANARJANA 2K14, The Oxford college of science-Bangalore (2014). The paper selected as a BEST Paper.

Other achievements...

1. Delivered a Guest Lecture on 'Signal Processing and its Application' at SFS College, Electronic city, Bangalore on 27-07-2019.
2. Program coordinator for National conference and seminar at Dept. of PG studies and Research in Electronics, Kuvempu University, Shivamogga.
3. Conducted Special Lectures at Dept. of PG studies and Research in Electronics, Kuvempu University, Shivamogga.
4. Guidance for a M.Sc Electronic projects at Dept. of PG studies and Research in Electronics, Kuvempu University, Shivamogga.
5. Organizer for Inter Departmental "brain storm research discussion sessions" at Dept. of PG studies and Research in Electronics, Kuvempu University, Shivamogga.


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