

IQAC — Annual Report 2021 — 22



“Education is not the learning of facts but the training of the mind to think

-Albert Einstein

Annual report of the college chronicles the major initiatives, events and accomplishments of the College during the Academic Year. It recognizes the achievements of the students and faculty in different expanses. IQAC supports the development of a learner-centric environment in the college by utilising a variety of cutting-edge, participatory teaching and learning techniques. With its many modern and logical activities, the IQAC promotes a better environment for maintaining and developing quality in the Institution. All of the activities are designed to help students achieve academic achievement while preparing them for today's demanding job needs.

The ICT and IT facilities at the college have improved significantly this year as well, reviving the college's varied academic and administrative operations. The year 2021-22 has witnessed a number of laudable activities as furnished below.

Significant Activities and contributions made by IQAC

- Installing Anti-Plagiarism Software drill bit
- Procurement of smart boards and digital display boards
- Installation of vending machines and incinerator
- New LMS
- Strengthening of student counselling sessions-Your Dost
- Staff and students' COVID vaccination drive
- Introduction of Research recognition day
- Workshop on Implementation of NEP
- Workshop on PO-CO (Linking PEOs with Vision & Mission of the Institution and National Vision linking POs to Cos)
- In collaboration with IPR cell and IACEL, organizing activities like webinar on 'Intellectual Property Rights and its protection in India', guest talk on 'Entrepreneurship'
- Encourage departments to organizes programmes like seminars, workshops, training programmes, guest lectures, extension activities and monitoring the same
- Procurement of stake-holder feedback: Student, Faculty, Alumni, Employer feedback
- Procurement of departmental AQAR which forms the basis for AQAR submission to NAAC
- Conducting Academic Audit based on Departmental AQAR

- Orientation Programme for all the students
- Induction Programme for the newly appointed teaching staff
- Result Analysis meetings with the departments to identify the shortcomings and remedial measures to improve the students' performance
- Guidance and support towards the organization of PTA meet and Alumni meet

STAFF ACHIEVEMENTS
Dr. Sangeetha Annie George, Head & Professor, Dept. of Zoology has been awarded Ph.D. from Bharathiar University, Coimbatore.
Mr. Sudhakar Malla, Asst. Professor, Dept. of Bio-Technology has received "SPP Biofuel project" by Karnataka State Council for Science and Technology.
Dr. Suma T K, Asst. Professor, Dept. of Bio-Chemistry has received "SPP Biofuel project" by Karnataka State Council for Science and Technology.
Mr. P. Rajarajan, Professor, Dept. of Microbiology has received "SPP Biofuel project" by Karnataka State Council for Science and Technology.
Dr. S. Maheswari, Asst. Professor, Dept. of Microbiology has received "Best Outstanding Young Teacher National Award 2021" by Kamaraj Institute of Education and Research, Theni, Tamilnadu, India.
Mr. P. Rajarajan, Head, Dept. of Microbiology has received "Best Outstanding Young Scientist National Award" by Kamaraj Institute of Education and Research, Theni, Tamilnadu, India.
Manasa Gowda, Asst. Professor, Dept. of Journalism has received "Teaching and Research Excellence" award from Eureka Pride of Education and Research Awards
Ms. Umashankari, Dept. of Psychology has received the Award for "Best Counsellor" from Vidhya Poshak, Dharwad
Dr. Sangeetha Annie George has been awarded 'Best Woman Academician Award-2022' from SCIENG publishers and Yellapragada Life Sciences

Noteworthy Achievements

Students from the Indian Academy Degree College - Autonomous have competed in a variety of tournaments and competitions at all levels from district to international where they have won medals. They have taken part in 32 competitions during the academic year 2021–2022 and staff members competed in two tournaments. Eight students of the Institution have competed in the All India University Championship, eleven students in the South Zone Inter University Competitions, three students at the International level and other students in Bengaluru North University competitions open college, state and national tournaments in their respective games.

Sl. No.	Event	Achievement
1	<ul style="list-style-type: none"> T John open intercollegiate table tennis competition T John open intercollegiate carrom competition Bengaluru North University Best Physique Championship Bengaluru North University Inter Collegiate Karate Championship Men and Women 	First place
2	<ul style="list-style-type: none"> Women's 14th Karnataka Kickboxing Championship T John open Intercollegiate Volleyball competition Bengaluru North University Inter College Pencak Silat Championships Open Inter College Cricket Tournament the students won the second place 	Second place
3	<ul style="list-style-type: none"> Men's Intercollegiate Taekwondo Championships Bengaluru North University Women's intercollegiate table tennis championship at the Khelo Jayanagara Kabaddi Tournament. 	Third place
4	<ul style="list-style-type: none"> Women faculty members participated in St. Joseph's throw ball championship Men faculty members participated in St. Joseph's volley ball championship 	First runner up trophy

Honouring the teachers on Teachers' Day

Name of the faculty member	Department
Dr. Pushpa K.	Biochemistry
Prof. Ravishankar	Kannada

COMMEMORATIVE DAYS/EVENTS CELEBRATED IN THE INSTITUTION

Student Council Elections

The College Student Welfare Officers conducted the “STUDENT COUNCIL ELECTION AND SELECTION PROCESS” for various posts. It was held on 10th December 2021, at 1: 45 PM. All the Class representatives participated in the Election and Selection round. The Principal Dr, Srinidhi K. Parthasarathi congratulated the nominated students and wished them to solemnly take their duties and responsibilities with utmost dedication and diligence.

Investiture Ceremony

Investiture ceremony was organized for the academic session 2021-2022 on 27th of December. The badging ceremony of the newly elected candidates was carried out by Dr.Srinidhi. K Parthasarathi, Principal and Chief Guest for the day and Prof. Shalini, Vice Principal.

Independence Day The Indian Academy Group of Institutions marked the 75th commemoration of India's independence, "Azadi Ka Amrit Mahotsav," on August 15, 2021, with zeal and fervour. The Chief Guest Dr. T. Somasekhar, Chairman, IAET hoisted the flag and delivered a patriotic message. The event highlighted India's rich culture, cultural diversity, patriotic spirit among Indian citizens, and achievements of the country's sons and daughters, including laurels gained at the recent Olympics.

Teachers’ Day

It was celebrated on 4th September 2021 by IADC-A at IAPU College they felicitated eminent scientists, educationists and great teachers, who have contributed to the society. Each of them was honoured. The gathering was addressed by Dr. Srinidhi K Parthasarathi, and Dr. T Somasekhar. It was an eventful and enlightening event.

Gandhi Jayanthi Day

Was celebrated on 2nd October 2021 was graced by the chief guest, Retd. Prof. M.G Chandrashekaraiiah, Department of Kannada, Sri Kongadiyappa College, Doddaballapur and Presidential address by Dr. T Somasekhar, Chairman, IAET. The Patriotic Song, Dance and Drama.

Annual Scholarship Award – On Tuesday, 22nd June 2021, the scholarships were awarded to the students in a grand function in presence of the chief guest, Pujya Swami Athmananda, Chinmaya Mission Ashram, Bangalore.

The merit scholarship program is an endeavour to boost the morale of meritorious students who exhibit brilliance in their academic performance, Merit-cum-Means scholarship and Smt. Sarojini Naidu Girl Student Scholarship is provided to create a platform for students from economically weaker sections of the society to access quality education without worrying about the financial aspects during their study. The awards were presented to students from all

three years of UG courses and for all PG courses.

Republic Day

The student council organized a small event on January 26, 2022 at the Basketball court. The event was presided by our beloved Chairman Dr.T.Somasekhar and Dr. Srinidhi K Parthasarathi, COO IAGI. Flag was hoisted by the Chief Guest. The NCC cadets started the event with a parade and also delivered an enthusiastic patriotic act. The council members along with the other students from various departments participated in the event.

Leadership Training program

LEAD – Leadership, Exploration And Development is the Annual Leadership Training programme organized by the Student Welfare Office for the Student Council. This year, LEAD was conducted on 20th April 2022 .The Session was taken by Dr. Rahul ,HR Manager and MBA Professor, IADC-A . He spoke on Leadership Qualities. The objective of this Training Programme was to give the young leaders a clear vision on leadership traits and groom them into virtuous leaders

“Save Water” Awareness Rally

The Student Council in association NCC, NSS and Youth Red Cross arranged a rally on Save Water -Groundwater: Making the Invisible Visible on 7th April 2022. Save water to save life on earth,’ this rule has become the prime need for all of us. This was an initiative from students of IADC-A to go around and create awareness among the surrounding neighbouring area. This initiative is a great step towards saving water.

Ethnic Day

Ethnic day was celebrated on 7th May 2022. It is a day of celebration for the diversity of cultures and ethnicities, an endeavour to bring about expression of unity in diversity that holds together the multitudes of outlooks, lifestyles and tradition to reflect the ethnicity of our country. It enables the young generation to revive love and respect for their own culture and history. In IADC-A, it was a great day to celebrate ethnic day for the students to show our preparation and release the banners of SPECTRUM 2021.

Spectrum

SPECTRUM is the intra-collegiate cultural show organized by the Student Welfare Officers and most enthusiastic Student Council, with the overall support of the management this mega event unveils the most spectacular talents of our students in notable events. The Off-Stage Events were organized on 9th May 2022 and on –Stage was organized on 10th May 2022. The most special thing about the event was for the first time there was a video presentation on Post Covid India. The video was on Recovery from Covid.

List of publications

C. Naveen Kumar	Cerium oxide nanoparticles induced physio-biochemical, neurochemical, and morphological responses in <i>Cirrhinus mrigala</i> during short term exposure
C. Naveen Kumar	Effects of D-pinitol on diabetes mellitus: an updated review.
C. Naveen Kumar	Cardio protective effects of Ferulic acid against various drugs and toxic agents.
C. Naveen Kumar	Baicalein inhibits cell proliferation and enhances apoptosis in human A549 cells and benzo (a) pyrene-induced pulmonary carcinogenesis in mice.
Ananda Vardhan	COVID-19: comprehensive review on mutations and current vaccines
Dilshad Begum	Evaluation of Phytochemicals and Antimicrobial Activity of Piper Beetle Leaf from Three Different Regions of Karnataka
Dilshad Begum	A review on polycystic ovarian syndrome in Relation to insulin resistance pathogenesis
Prashanthi Karyala	The chromatin modifier MORC2 affects glucose metabolism by regulating the expression of lactate dehydrogenase A through a feed forward loop with c- Myc
Prashanthi Karyala	Virtual Screening of Curcumin and Its Analogs Against the Spike Surface Glycoprotein of SARS-CoV-2 and SARS-CoV
Sibi G	Physicochemical and antibacterial activities of Apis honey types derived from Coorg, Karnataka, India
Sibi G	Molecular identification of insecticide degradation by gut bacteria isolated from <i>Helicoverpa armigera</i> of Cotton plants
Sibi G	Bioactive Phytochemical Compounds of <i>Physalis minima</i> L. and its Anticholinesterase and Antioxidant Activities
Sudhakar Malla	Docking Study of Active Phytocompounds from Methanolic Flower Extract of <i>Flacourtia jangomas</i> against Cell Wall Proteins of <i>Candida tropicalis</i> .
Sibi G	Targets and mechanism of action of chemical constituents from plants with potential anti-leukemic activity
Shalini. S	An Interpretation of Applicability of Balanced Scorecard and Performance of IT Companies in Bengaluru city
Ashish G Wilson	Evaluation of Neuro Marketing training workshop Using Kirkpatrick's Model
Prasanna Kumar	A Comprehensive insight on the biological potential of embelin and its derivatives
Jeelan Basha	A comprehensive review on pyrimidine analogs-versatile scaffold with medicinal and biological potential
Jeelan Basha	Synthesis, spectral analysis, DFT calculations, biological potential and molecular docking studies of indole appended pyrazolo-triazine
Jeelan Basha	Therapeutic potential of pyrrole and pyrrolidine analogs: an update
Jeelan Basha	Updates on the versatile quinoline heterocycles as anticancer agents
Jeelan Basha,	A Comprehensive insight on the biological potential of embelin and its derivatives

Latha V	Bioactive Phytochemical Compounds of <i>Physalis minima</i> L. and its Anticholinesterase and Antioxidant Activities
Swathi Baskaran,	A Comprehensive insight on the biological potential of embelin and its derivatives
Monika Bajpai	Bioactive Phytochemical Compounds of <i>Physalis minima</i> L. and its Anticholinesterase and Antioxidant Activities
Monika Bajpai	Physicochemical and antibacterial activities of Apis honey types derived from Coorg, Karnataka, India
K. Shyamsundar	Therapeutic potential of pyrrole and pyrrolidine analogs: an update
Asma Banu	Determinants Of Financial Well Being : A Quantitative Study Among Working Women In Higher Education At Bengaluru
Asma Banu	A study on the role of financial literacy on changing perception about fintech among women faculty at Bangalore
Jaffer Mohammed	A study on the reach on financial literacy and investment behavior among the earning illiterate population with special reference to Bangalore
Ms. Maria Mendes	The impact of institutional social responsibilities on higher educational institutions
T Srinivasa Rao	A Survey on Machine Learning in Wireless Sensor Networks
Shubha Bhadran	Docking Study of Active Phytocompounds from Methanolic Flower Extract of <i>Flacourtia jangomas</i> against Cell Wall Proteins of <i>Candida tropicalis</i> .
Nataraja.P	Pravasa Sthala - Ihole
Sahithya K	Applications of Nanomaterials for Adsorptive and Catalytic Removal of Chemical Pesticides: An Overview
Venkata Krishna Bayineni	Decolorization of UV / TiO ₂ pre - treated azo dyes by using developed bacterial consortium - An excellent outcome.
Pethannan Rajarajan,	Detection of aflatoxin producing <i>Aspergillus flavus</i> from animal feed in Karnataka, India
Malaiyarasa Pandian Periasamy	Detection of aflatoxin producing <i>Aspergillus flavus</i> from animal feed in Karnataka, India
Maheswari Subramanian	Detection of aflatoxin producing <i>Aspergillus flavus</i> from animal feed in Karnataka, India
Sahithya K	Green Synthesis of silver Nanoparticles using Marine Sea Wed <i>Acetabularia acetabulum</i> and their activity as MMT-Ag Nanocomposites
Malaiyarasa Pandian	Photosynthetic Based Technology for the Bioremediation of Domestic Sewage Water Using Anoxygenic Bacteria.
Sahithya K	Remediation potential of mushrooms and their spent substrate against environmental contaminants: An overview
E. Parasuraman	Effect of impurity on modulational instability of localized modes in a discrete quantum ferromagnetic spin chain
E. Parasuraman	Evolution of dark optical soliton in birefringent fiber of Kundu–Eckhaus equation with four wave mixing and inter-modal dispersion
E. Parasuraman	Modulational instability criterion for optical wave propagation in birefringent fiber of Kundu–Eckhaus equation

Mukunda .B.G	Role of Social Media in Promoting Tourism Business – A study on Tourism Promotion in Odisha
Mary Stella, Bhupanapadu Sunkesula	Characterization of the Regulatory Signatures of Peptidoglycan Recognition Proteins of Apis Cerana by Insilico Analysis
Sangeetha Annie George	Docking study of active phytochemicals from methanolic flower extract of Flacourtia jangomas against Cell Wall Proteins of Candida tropicalis.
Mary Stella Bhupanapadu Sunkesula	Validation of Antioxidant and Immune Related Gene Members Among Apis Cerana Species of South India by Quantitative Real-Time PCR.
Naveen kumar C.	Baicalein inhibits cell proliferation and enhances apoptosis in human A549 cells and benzo (a) pyrene-induced pulmonary carcinogenesis in mice.
Sahithya K.	Remediation potential of mushrooms and their spent substrate against environmental contaminants: An overview
Naveen kumar C.	Effects of D-pinitol on diabetes mellitus: an updated review.
Ananda Vardhan	Vegetarian ethnic foods of South India: review on the influence of traditional knowledge.
Naveen kumar C.	Baicalein: A review on its anti-cancer effects and mechanisms in lung carcinoma.
Ananda Vardhan	Biochemical and Biophysical Changes in Plasma and Erythrocyte Membranes of Alcohol-Consuming Type 2 Diabetics: A Clinical Study
Jeelan Basha	Synthesis, spectral analysis, DFT calculations, biological potential and molecular docking studies of indole appended pyrazolo-triazine
Jeelan Basha	An insight into therapeutic efficacy of heterocycles as histone-modifying enzyme inhibitors that targets cancer epigenetic pathways
Jeelan Basha	Anticancer Potential of Bioactive Molecule Luteolin and Its Analogs: An Update
Jeelan Basha	Therapeutic Efficacy of Benzimidazole and Its Analogs: An Update
Jeelan Basha	Design, Spectral analysis, DFT calculations, antimicrobial, anti-TB, antioxidant activity and molecular docking studies of novel bis-benzoxazines with cytochrome c peroxidase
S.Maheswari	Phytoremediation Of Outdoor Air Pollution – A List Of Plants And Their Contribution.
Sahithya K	Remediation potential of mushrooms and their spent substrate against environmental contaminants: An overview
Asma Banu, Syeda Tabassum	Predicting student attention during lectures through artificial neural network: a survey

BOOK/BOOK CHAPTERS

Microbiology	Mouli T, AK Ekanayake, Ashwini V, Sahithya K	Algal fertilizers: An emerging opportunity for Indian bioenterpreneurs	Book Chapter	Bioenterpreneurs in Biosciences-Recent Approaches, Darshan Publishers, Tamil Nadu, India ISBN: 978-93-93942-38-8
Microbiology	A Chunduri, N. Donthula, M. jahanavi, S. Golla, P. Aich, Sahithya K , B. Mishra, SK Mandal and Anuranjeeta	Role of microbes in the Pharmaceutical industry	Book Chapter	Role of microbes in Industrial products and processes, Scrivener Publishing, ISBN: 978-1-119-90101-3
Microbiology	Harshitha C.K., Ekanayake Wasala Mudiyansele Amanda Kakusanda Ekanayake, P. Rajarajan and S. Maheswari	Potential Role of Skin Microbiome in Acne-Immune Tolerance and Treatment	Book Chapter	Research in Microbiology, Akinik Publications. ISBN: 978-93-5570-158-9
Microbiology	Harshitha C.K., Ekanayake Wasala Mudiyansele Amanda Kakusanda Ekanayake, P. Rajarajan and S. Maheswari	Potential Role of Skin Microbiome in Acne-Immune Tolerance and Treatment	Book Chapter	Research in Microbiology, Akinik Publications. ISBN: 978-93-5570-158-9
Chemistry	Basavarajaiah Suliphuldevara Matada, Nagesh Gunavanthrao Yernale and Jeelan N. Basha	7 Updates on the versatile quinoline heterocycles as anticancer agents	Book Chapter	Heterocyclic Anticancer Agents Published by De Guyter
Biochemistry	Dilshad Begum	Physicochemical biotechnological approaches for removal of contaminants from wastewater	Book Chapter	Integrated Environmental Technologies for Wastewater Treatment and Sustainable Development
Business Administration	Jayaram Kanzal, T. Lilly, Joby Jose, R. Kesavan	Human Resource Management	Book	Raja Ram mohan Roy National Agency(Wisdom Publications)

Sl. No.	Name of the Workshop/ Seminar organised by Departments
1	Analysis based on “Chart Reading “
2	Seminar on “Genetics, a walk of life”
3	Seminar on “Insurance policies and career planning “
4	Poster making Competition On COVID 19-Your way of self-Protection
5	Workshop on “Art of Decision making “
6	Webinar on Research, Entrepreneurial and Job Opportunities in Life Sciences
7	Seminar on “Design and Applications of Nanomaterials”
8	Investing young and harvesting all trough
9	Research based Industrial exposure to Biozeen Biotech Labs Pvt., Ltd.
10	Workshop titled ‘Know your Psychometric’
11	Seminar on NEP 2020: Focus on Holistic Education with Emphasis on Physical Education, Sports and Yoga as a Curriculum subject in National Education Policy
12	Attitude, skills and knowledge for the workplace
13	Soft skill for the work place
14	Skills through Industrial visit orientation
15	Workshop on Preparing a project report
16	Seminar on “Genome editing and its applications”
17	8th IAPT National Student Symposium on Physics
18	Workshop on “Know your Psychometric”
19	Hand on training on ‘Biofertilizer production’
20	Health Awareness on ‘Anaerobic microorganisms through experiments’
21	Awareness on ‘Food quality during production’
22	Field Exposure on ‘Tissue Culture and Polyhouse tunnels’
23	Seminar on “Research, IP& Innovation”
24	Skill based workshop on “Paper Mache - Model Making”
25	Research based exposure on “Museum-a space of Joy and Learning”
26	Workshop on “Molecular Docking studies”
27	Targeting tissue specific transcription factors- a promising cancer treatment
28	Cancer Awareness Webinar on ‘Anticancer drugs from mother nature: ancient

	solutions for modern problems’
29	Workshop on “Intellectual Property Rights & Protection in India”
30	‘Overview about Biology of Parasitism: Malaria - Causes, Symptoms, diagnosis, morphology & lifecycle’
31	Talk on ‘My Journey to Entrepreneurship - Biotherm Flavours’
32	CRISPR/Cas Gene editing: Potential tool in therapy and diagnostics
33	Social Intelligence Leading to Corporate Success
34	Cancer Genes Biology of Therapy
35	Explore the Opportunity after completing Degree
36	Seminar on “Entrepreneurial Talk”
37	Workshop on “Handwriting Analysis”
38	Workshop on Mushroom Cultivation
39	Karyotyping and its clinical applications-Stroma Technologies
40	Workshop on “Embedded System”
41	Seminar on “Time Management “
42	Webinar titled "Citizen Science: Anyone can be part of Research"
43	Guest talk on Life skills- Smile your way to good health
44	Guest talk on Samshodhanaa kaaryaagaara
45	Seminar on NEP 2020 in collaboration with BNU
46	Guest lecture on ‘Stress Management’ for all non-teaching staff
47	Guest lecture on ‘Financial planning for lab assistants
48	Workshop on Implementation of NEP
49	FDP on “Transforming Education: Research on Teaching and Learning"
50	Guest lecture on ‘Work-life balance’ for administrative staff
51	FDP on ‘Intellectual Property Rights’
52	Workshop-Linking PEOs with Vision & Mission of the Institution and National Vision linking POs to COs
53	Workshop on ‘Empowering Faculty for Consultancy and Incubation: Fostering Entrepreneurial Ecosystems in Higher Education

Pictures





ISR activity- Renovation of the Govt. schools that were adopted

Indian Academy Hands Over 5 Renovated Govt. Schools of 11 Adopted



Dr. T. Somasekhar, Chairman of Indian Academy Group of Institutions (Second from left) presenting the report to B. C. Nagesh, Minister for Primary Education, GovK, Prof. M. R. Doraswamy, Advisor to GovK on Education Reforms and Dr. Ravi Prasath Manohar V, IAS, Spl. Commissioner (Education) BBMP (extreme left)

Indian Academy Group of Institutions has undertaken major infrastructural renovations and new construction of classrooms and other related facilities between January and August 2022. During the period, five of the eleven adopted schools were focused in Phase-1. Similar initiatives in remaining six schools will be taken up shortly.

These five schools include Government Kannada Higher Primary School, R. S. Palya; Government Higher Primary School, Subblahanapalya; Government Kannada Lower Primary School, Nagayinapalya; Corporation primary School Thimmaiah Road; and BBMP Girls High School, Thimmaiah Road.

"Under the guidance of Ministry of Primary Education and Prof. M. R. Doraswamy, advisor to Government of Karnataka on Education Reforms, Indian Academy officials met individual School Heads and other officials in BBMP and BBMP Resource Persons and came out with a plan consisting of specific and most needed works," said Dr. T. Somasekhar Chairman Indian Academy Group of Institutions.

He added that these infrastructural and academic initiatives/interventions were carried out with the help of a qualified civil architect and a civil contractor. "A detailed project report was presented to B. C. Nagesh, Minister for Primary Education and Prof. Doraswamy, yesterday," Dr. Somasekhar informed.

Works carried out in the schools range from redoing water proofing on the entire roof surface, constructing toilets, renovating existing bathrooms, fixing windows with grill work, leveling the playground, educative art works in classrooms, building new classrooms, providing fans and LED lighting, exterior compound fence reinforcement, and slotted angle racks for storage among many others.

The total amount spent in these five schools is ₹ 60.47 lakhs.



PRINCIPAL

Indian Academy Degree College

Autonomous

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