



Kristu Jayanti College

AUTONOMOUS

Bengaluru

Reaccredited 'A' Grade by NAAC | Affiliated to Bangalore North University

STRENGTHENING COMPONENT OF DBT STAR COLLEGE SCHEME

ANNUAL PROGRESS REPORT 2020-21

Submitted to



**DEPARTMENT OF BIOTECHNOLOGY
MINISTRY OF SCIENCE AND TECHNOLOGY
GOVERNMENT OF INDIA**

Submitted by:

Kristu Jayanti College, Autonomous

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Department of Biotechnology

Proforma for submission of Annual Progress Report supported under

Star College Scheme

1. Name of the College: Kristu Jayanti College (Autonomous), Bengaluru

2. Name of Coordinator, designation, Address, Phone nos.:

Dr. Dileep Francis
Assistant Professor
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Kristu Jayanti College (Autonomous)
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3. Assessment duration: 01 / 04 / 2020 to 31 / 03 / 2021

Duration in years: 01

4. Details of Departments Supported:

Sl No.	Name of Department	Courses offered	Regular Faculty Members	
1	Department of Life Sciences	1. BSc Biotechnology, Biochemistry, Genetics (BBG) 2. BSc Microbiology, Biochemistry, Genetics (MBG) 3. BSc Botany, Biotechnology, Biochemistry (BBB) 4. MSc Biotechnology 5. MSc Microbiology 6. MSc Biochemistry (Introduced in 2020-21 academic year)	Total = 20	
			With PhD	Without PhD
			18	02

5. Number & Date of Advisory committee meeting:

Sl. No	Date
1.	12/11/2020

6. Qualitative improvements due to DBT support:

- I. **Revision of practical curriculum:** In line with the objectives of the Star College Scheme, the practical curricula for UG programmes (Biotechnology, Microbiology, Biochemistry, & Genetics) under the Department of Life Sciences were revised. Topics in the theoretical curriculum that did not have practical components were identified and new experiments were introduced. Redundancy in the curricula was removed. After getting approval the members of the board of studies of the respective subjects the revisions were finally incorporated into the curriculum. In addition to this, practical components that were either conducted as



demonstrations or explained theoretically to students were identified and converted to hands-on experiments. In short, implementation of the DBT star scheme triggered qualitative and quantitative improvement in the practical curricula.

- II. **Fortification of laboratory infrastructure:** Equipment and consumables that would be required to conduct the experiments proposed anew and those converted into hands-on mode were procured using the grant provided under the Star College Scheme. More learning resources were made available students in the form of new books and journals in the library
- III. **Preparation of Laboratory manuals:** To ensure the smooth run of practical sessions and to provide more learning resources to students, laboratory manuals were created for all the experiments in the practical curriculum (except the newly introduced practical's). The manuals were prepared by the course teachers.
- IV. **Implementation of Inspire component of ITI:** ITI (Inspire, Train, Implement), a consolidated training programme aimed at inculcating and nourishing interest in experimental biology in UG students was initiated in the academic year 2020-21. The first year component of the proposed program (dubbed as 'Inspire') was implemented for I year UG students of BSc. BBG, BSc. MBG and BSc. BBB. A weekly activity, named as 'Café Curieux' was introduced as part of the Inspire component. The activity was incorporated as a regular component of the time table and was conducted on Saturdays. Students were divided into five-member groups and each group presented the activity during their turn. The components of the activity were as follows:

- a. Journal article presentation (classic papers that changed the course of biology were presented)
- b. Technical description of a laboratory equipment (The principle of operation and standard operating procedures of a basic laboratory equipment, like the pH meter were presented)
- c. Maths in Biology - Mathematical principles applied in scientific experiments were presented
- d. Presentation on the biography of a pioneering Scientist

All the first year UG students were a part of the activity. One hundred and fifty one students benefitted from the activity.

- V. **Minor research projects:** As part of the Inspire component of ITI, all the first years students undertook a minor research activity. The activity was designed such that the students would learn how to design a research project, execute it and document results. The activity served as an introduction to research methodology. The activity involved the study of the effect of various factors (like salt, sugar, and oil) on the sprouting of green grams. Students were divided into groups and asked to perform the experiments. The experiments were performed at the students' residence/ hostel etc. as lab space could not be provided because of the pandemic. Students submitted reports at the end of the semester.

The final year undergraduate students (III Year BSc) undertook research projects. Although the smooth conduct of the process was hampered by the pandemic, students performed systematic literature reviews, bioinformatics projects and online internships and compiled the outcome into dissertations. The evaluation of these projects is underway.



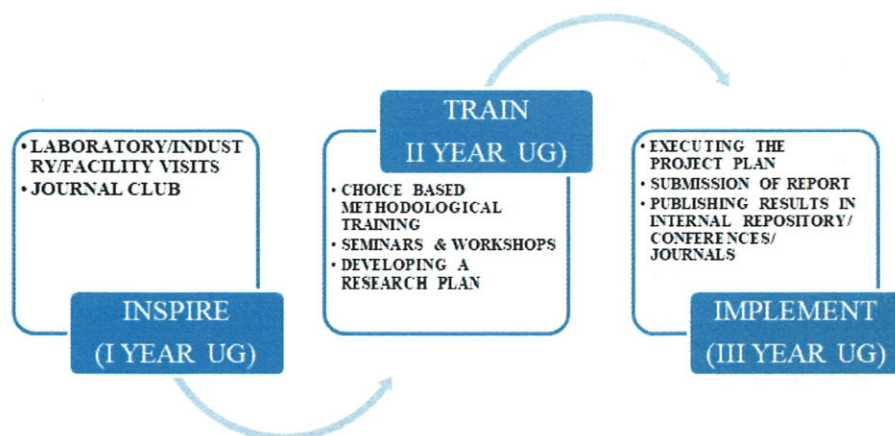
VI. 'Science Setu' Lectures:

In Stem, Bengaluru has been organising Science Setu lectures since March 2020 on selected scientific topics. The lectures which are delivered by eminent scientists from prominent research institutions serve to ignite passion for Science in students. UG students from the department have been a part of the Science Setu lectures.

7. Any Novel aspect introduced or planning to introduce during the Scheme duration

1. Implementation of the ITI programme

The ITI training module, as depicted in the Figure given below was introduced. The first year component, Inspire was successfully implemented for I year UG students. Methodological training in selected workflows (Train) will be implemented in the current financial year. Preparation of training manuals for the smooth conduct of the activity is on-going



2. 'Prerana' - Outreach Programme:

As an outreach effort the department has initiated a training programme entitled 'Prerana-Introduction to experimental Science' for students of Higher Secondary and Senior secondary schools under the Star College Scheme. The training session seeks to introduce school students to the fascinating world of experimental science through talks, hands-on training sessions and demonstrations. Students from two schools were offered training under the programme during the academic year 2020-21. The Department of Life Sciences plans to offer training to more schools this year

3. Introduction of Scientific Lecture Series:

To complement the training activities for students, two scientific lecture series are introduced. **Inspire** series of lectures involves expert discourse on various aspects of Biotechnology. **Primer** series introduces students to the diverse sub disciplines of Biotechnology



8. Lessons learnt / difficulties faced/suggestions if any, in implementation of the programme and utilization of DBT grant. (Max 3 points within 300 words).

1. The covid-19 pandemic imposed severe constraints on executing the plans laid out in the proposal. Industrial and institutional visits that were proposed for I year UG students under the ITI programme could not be conducted due to the lock-down restrictions. Training for faculty members was also not conducted due to the situation. Although major revisions have been made to the practical curriculum, students did not benefit from the revisions due to the limitations in conducting practical sessions in the online mode. Only the II and III year students undertook offline practicals. However, a workshop is being planned for the students by including some of the important experiments
2. Complete utilisation of the grant-in aid (Mentoring and Travel) was also rendered impossible due to the pandemic scenario
3. The Department of Life Sciences offers BSc programmes with triple major combinations (BBG, MBG, and BBB). However, all these combinations and programmes are offered under the Department of Life Sciences as a single entity instead of separate discipline- specific departments. The total number of students pursuing UG programmes in the department is 450. Hence, catering to the requirements (consumables and equipment) of all 450 students using the sanctioned budget is a challenge

Key performance indicators

S No	Indicator	Pre-support	During/After Support	Remarks
1	No. of students admitted	Total (2019-20) = 127 M= 40 F= 87	Total (2020-21)=161 M=57 F=104	Total strength of BBG, MBG, & BBB
		S C S T O B C G	S C S T O B C G	
		5 0 6 2 8 4 3 3	4 1 1 3 9 2 1 8	
		9 6 9	4 8 4	
2	No. of students passing out (%) Students Admitted/passing out (pass %)	Students admitted= 109 No. of students who taking final semester exam=100 No. of students passing out= 94 Pass % = 94/109 = 86 (Data is based on the 2017-20 UG batch)	Students admitted=109 No. of students who took final semester exam= 101 No. of students passing out= NA* (*End semester exams are going on for the 2018-21 batch)	
3	Drop-out rates	8.25 %	7.33 %	*Results of 2018-21 batch is yet to be published
4	No. of students opting for MSc	36 (38%)	NA	
5	Average marks	77%	NA	
6	No. of hands-on experiments	Biotechnology- 63 Microbiology- 68 Biochemistry- 69	Biotechnology- 63 Microbiology- 68 Biochemistry- 73	Curriculum revision and BoS for the




	being conducted	Genetics- 66 Botany-35 Total- 301	Genetics- 66 Botany-38 Total- 308	DBT star college scheme was conducted in 2020-21. The increase in practical component would be reflected in the 2020-21 academic year
7	No. of new experiments introduced	Biotechnology- 0 Microbiology- 0 Biochemistry- 10 Genetics- 0 Botany-0 Total-10	Biotechnology- 32 Microbiology- 24 Biochemistry- 12 Genetics- 09 Botany-02 Total-79	New experiments have been approved by the BoS in 2020-21 and will be implemented starting from the academic year 2021-22
8	Publications (scopus indexed) /patents, if any.	Faculty- 3 Students - Nil	Faculty - 6 Students – 13 (Chapters in a book with ISBN)	
9	Training received by faculty	Online Training/ Participation in FDPs-02 NPTEL certificate courses- 05	Online Training/ Participation in FDPs- 10 NPTEL certificate courses-01	
10	Exhibitions/seminars/training courses conducted	Exhibition-1 Seminar/FDP-02 Training (Value added courses) - 03	Seminars/FDP- 05 Training (Value add courses) - 05	
11	Books/journals subscribed from grants	Nil	Books-15 Journals-05	
12	Outreach activities (Popular lectures)	Nil	02	
13	Colleges mentored to apply for DBT Star College grants	Nil	Nil	
14	Invited lectures	07	17	

*Proof for serial number 6-14 is attached as Annexure I



10. Self- evaluation

Department	*Objective (as stated in proposal)	% achieved	Reasons for underachievement / If achieved, state in quantitative metrics
Department of Life Sciences	1. Enrich curriculum by introducing more practical component	100%	2 marks
	2. Strengthen the infrastructure and resources in the laboratories	75%	1.5 marks (Equipment purchase is partly completed)
	3. Introduce a novel training module (ITI)	100%	2 marks (Module is introduced. One year of training is completed)
	4. To develop interactive practical manuals, workflow manuals, SOPs and other resources to aid the training	50%	1 mark (Practical manuals (draft) have been prepared. However they have to be edited and compiled. Workflow manuals and SoPs are still to be prepared)
	5. Enrich the knowledge and skills of faculty members through faculty development programmes	30%	0.5 marks (Although many faculty members participated in online training programmes, hands on training was not possible due the pandemic)
Total (Out of 10)			7 marks


Course Coordinator
(With Seal)

Coordinator
DBT Star College Scheme
Kristu Jayanti College, Autonomous
Bengaluru - 560 077 Karnataka




Head of the Institution
(With Seal)

PRINCIPAL
Kristu Jayanti College Autonomous
K. Narayanapura, Kothanur PO
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Annual Progress Report (2020-21)

Proof for Key Performance Indicators

I. Practical curriculum revision

(Response to Key performance indicator, query No. 7)

Committees were established to revise the curriculum in line with the objectives of the DBT star college scheme. Extensive revisions were made by (a) adding new experiments (b) converting demonstrated practical into hands-on experiments and (c) removing redundant experiments. The revisions were approved by the board of studies of the respective subjects and the Academic council.

Programme	Date of approval by BoS	Link to Minutes of meetings
Biotechnology	17. 05. 2021	https://drive.google.com/drive/folders/1hUpNhdowlWKBP30qVn9UGTjhWhlXvC4i?usp=sharing
Microbiology	17. 05. 2021	
Biochemistry	12. 05. 2021	
Genetics	17. 05. 2021	
Botany	08. 05. 2021	
Academic Council	22. 05. 2021	

II(a). Faculty Publications (2020-21) (Scopus indexed)

(Response to Key performance indicator query No. 8)

Sl. No.	Name	Title of the Article	Month, Year of publication/ Journal	DOI/Link
1.	Dr. Dileep Francis	Drug repurposing against SARS-CoV-2 using E-pharmacophore based virtual screening, molecular docking and molecular dynamics with main protease as the target	June 2020 /Journal of Biomolecular Structure and Dynamics	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7335810/
2.	Dr. Challaraj Emmanuel	Study on Biosurfactants Producing Fungus Isolated From Oil Contaminated Soil	June 2020 Journal of Solid state Technology	https://solidstatetechnology.us/index.php/JSST/article/view/3836
3.	Dr. Elcey C. Daniel	Antibacterial performance of GO-Ag nanocomposite prepared via ecologically safe protocols	August 2020/ Applied Nanoscience	https://link.springer.com/article/10.1007/s13204-020-01539-z



Sl. No.	Name	Title of the Article	Month, Year of publication/ Journal	DOI/Link
4.	Mrs. Priya Jossan Akkara	A biochemical approach to the anti-inflammatory, antioxidant and antiapoptotic potential of beta-carotene as a protective agent against bromobenzene-induced hepatotoxicity in female Wistar albino rats	August 2020 Journal of Applied Biomedicine	10.32725/jab.2020.011
5.	Dr. Dileep Francis	Repurposing simeprevir, calpain inhibitor IV and a cathepsin F inhibitor against SARS-CoV-2 and insights into their interactions with Mpro	September 2020 /Journal of Biomolecular Structure and Dynamics	https://pubmed.ncbi.nlm.nih.gov/32873185/
6.	Mrs. Priya Jossan Akkara	Physicochemical and target analysis of 14- <i>apo</i> -beta-carotenol and predication of its potential binding affinity against the hepato-toxicity and nephro-toxicity protein	September 2020 Journal of Seybold Report	<a href="https://seyboldjournal.com/wp-content/uploads/2020/09/Physicochemical-and-target-analysis-of-14-<i>apo</i>-beta-carotenol-and-predication-of-its-potential-binding-affinity-against-the-hepato-toxicity-and-nephro-toxicity-protein.pdf">https://seyboldjournal.com/wp-content/uploads/2020/09/Physicochemical-and-target-analysis-of-14-<i>apo</i>-beta-carotenol-and-predication-of-its-potential-binding-affinity-against-the-hepato-toxicity-and-nephro-toxicity-protein.pdf
7.	Dr. Dileep Francis	Identification of CD4 ⁺ T cell epitopes from <i>S. aureus</i> secretome using immunoinformatic prediction and Molecular Docking	March 2021 Biotechnologia	https://doi.org/10.5114/bta.2021.103761

II (b). UG Student publications (*Book Chapters*)

(Response to Key performance indicator query No. 8)

The following students from IV Semester and VI Semester BSc programmes contributed chapters to Volume 1 and 2 of an edited book titled “Research Insights of Life Science Students”

Link to access soft copies of the articles:

<https://drive.google.com/drive/folders/1nFEU557Lhzt7CAMb2RPcKooPOp0VXKfO?usp=sharing>

Sl. No.	Name	Title of the Article
1.	Angela Saji & Anagha Anoop	NANO DRUG DELIVERY
2.	Blesson Varghese & Samuel B Mathew	THE NEW ERA OF NANOTECHNOLOGY
3.	D. Subhiksha	EPIGENETIC THERAPY – A GENE THERAPY SPIN OFF



Sl. No.	Name	Title of the Article
4.	B. K. Hariharan	GUT BACTERIA TRIGGER IMMUNE DEFENCE MECHANISM TO PROTECT AGAINST VIRAL INFECTIONS
5.	Jissa Sunny and Angela Saji	EFFECT OF RADIATION ON GENES
6.	Jissa Sunny	BIOCHEMICAL BASIS OF AUTISM
7.	Joycee John	ANTICANCER PROPERTIES IN <i>Helianthus annus L.</i> SEED
8	Saketh Sundar & Nimmy Pious	PRIONS: THE MYSTERY PATHOGEN
9	S. Priyanka	STEM CELL RESEARCH: FOR THE BENEFIT OF PRESENT AND FUTURE
10	Rithiksha	GUT BACTERIA AND HEALTH
11	Saketh Sundar	CORALS: A HERO OF THE MARINE ECOSYSTEM
12	Samuel B Mathew and Blesson Varghese	IS STEM CELL TREATMENT REALLY PROMISING?
13	Vishnu Rai	MEDICAL IMPORTANCE OF <i>Nyctanthus arboristis</i> (PARRIJATA)

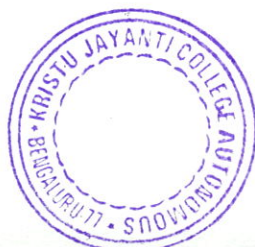
III (a). Faculty Training (online FDP/Webinars, Minimum 3 days duration)

(Response to Key performance indicator query No. 9)

Link to access certificate of participation:

<https://drive.google.com/drive/folders/15gs1GkZPUM-vcOZn8xN3Zkvhcw6K0z-z?usp=sharingNG>

Sl. No	Date	Name of the Faculty	Title of the Programme &	Nature of Programme/ Organiser
1.	20 April to 02 May 2020	Dr. Manikandan	FDP on Novel Microbes and Newer Threats	FDP organised by Sathyabama Institute of Science and Technology
2.	27 -30 April 2020	Dr. Shweta Sharma	Molecular docking and SNP analysis	Online course by Biokart India Pvt. Ltd, Bangalore
3.	11-15 May 2020	All faculty members from the department	SARS-CoV 2: Research insights from Computational Biology	FDP organised by Department of Life Sciences, Kristu Jayanti College
4.	11-15 May 2020	1. Dr. Elcey CD 2. Mrs. Priya Josson 3. Dr. Sangeetha Menon	La-TEX and X-Fig	FDP organised by AN College, Patna



Sl. No	Date	Name of the Faculty	Title of the Programme &	Nature of Programme/ Organiser
5.	25 –28 May 2020	Dr. Challaraj Emmanuel E.S	Advances in Biochemistry and Applications	International Webinar series organised by Mount Carmel College, Bengaluru
6.	28 -30 May 2020	Dr. Manikandan	Green Engineering and it's Industrial Applications towards Sustainable Future	FDP Vel Tech High Tech organised by Dr.Rangarajan Dr.Sakunthala Engineering College (National)
7.	7 -9 May 2020	Dr. Manikandan	online course on Biomedical nanotechnology	Indian Academic Researchers Association, Tamil Nadu
8.	11-13 June 2020	All faculty members from the department	Insights on Intellectual Property & Patenting	FDP organised by Department of Life Sciences, Kristu Jayanti College
9.	17.-20 June 2020	Dr. Hanumanthappa	4 Days Live Webinar on Research Methodology and Data Analysis	Karnataka Science and Technology Academy
10.	07- 09 July 2020	Dr. Sangeeta Menon	Certificate program on R software	STATCRAFT
11.	13-16 July 2020	Dr. Sangeeta Menon	Online short term course on research methodology	Shri RLT College of Science, Akola
12.	13 July to 13 August 2020	Dr. Manikandan	Online certificate course in Medical Bacteriology	FDP Organized by the Department of Microbiology, Sacred Heart College, Tirupattur
13.	10 - 12 November 2020	Dr. Sangeetha Menon	Virtual lecture workshop on Multi- omic applications in Medicinal Plant Research	The University of Trans- Disciplinary Health Sciences and Technology
14.	07 – 22 November 2020	Dr. Sangeetha Menon	ToT National E- Workshop on Bioinformatics	St. Anns College for Women, Hyderabad
15.	20 Jan to 1 Feb 2021	1. Dr. Sonia Angeline 2. Dr. Elcey CD	Entrepreneurship in renewable energy sector	Webinar organized by University of Lucknow



Sl. No	Date	Name of the Faculty	Title of the Programme &	Nature of Programme/ Organiser
16.	11-15 January 2021	Dr. Sangeeta Menon	FDP on Green Technology & Sustainability Engineering	ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
17.	19-23 January 2021	Dr. Sangeetha Menon	FDP on Precision Medicine	DY Patil Deemed to be University, Navi Mumbai

III (b). NPTEL certifications

(Response to Key performance indicator query No. 9)

Link to access participation certificate:

<https://drive.google.com/drive/folders/15gs1GkZPUM-vcOZn8xN3Zkvhw6K0z-z?usp=sharing>

Sl. No	Date	Name of the faculty	Title
1	Sep to Oct 2020 (4 week course)	Dr. Elcey CD	Biomedical Nanotechnology

IV (a). Exhibitions/seminars/training courses conducted

(Response to Key performance indicator query No. 10)

Seminars/ Conferences/Colloquiums

Sl. No	Date	Title of the Programme &	Nature of Programme	Participants	College Website Link to report
1.	11- 15 May 2020	SARS –CoV 2: Research insights from Computational Biology	FDP	Faculty members/ research scholars/ students from institutions across the country	https://glimpses.kristujayanti.edu.in/news/online-faculty-development-programme-on-sars-cov-2-research-insights-from-computational-biology



Sl. No	Date	Title of the Programme &	Nature of Programme	Participants	College Website Link to report
2.	11- 13 May 2020	Insights on Intellectual Property & Patenting	FDP	Faculty / research scholars/ students from institutions across the country	https://glimpses.kristujayanti.edu.in/news/intellectual-property-and-patenting
3.	29 th May 2020	VIGNANA VICINTANA: Research Colloquium	Colloquium	Intra-departmental, students from UG and PG courses, faculty members	https://glimpses.kristujayanti.edu.in/news/vignana-vicintana-research-colloquium-2
4.	5 th March 2021	National Entrepreneurship Awareness programme	Awareness programme organised in collaboration with C-CAMP	Intra-departmental, students from UG and PG courses, faculty members	https://glimpses.kristujayanti.edu.in/news/national-life-science-entrepreneurship-awareness-programme
5.	18-19 March 2021	International Conference on Sustainable Biotechnology	International Conference	Academician s/ Industrialists/ research scholars/ students from institutions from the country and outside	https://glimpses.kristujayanti.edu.in/news/international-virtual-conference-on-sustainable-biotechnology

IV (b). Add-on Courses, Value Added courses

(Response to Key performance indicator query No. 10)

Link to access reports:

<https://drive.google.com/drive/folders/1r1c8WHX8RO3YvcSga9Y7QSG1-ZcMbOYB?usp=sharing>

Sl. No.	Nature of the course	Title of the course	Date and Duration	Class	Total number of beneficiaries (Class/ No.)
1.	Add-on course	Basic methods in Research	3.8.2020-14.8.2020	V Semester BBG and MBG	102



Sl. No.	Nature of the course	Title of the course	Date and Duration	Class	Total number of beneficiaries (Class/ No.)
2.	Add-on course	Commercially Important Microorganisms	3.8.2020 to 14.8.2020	III Semester B.Sc. Botany	19
3.	Add-on course	Drug yielding plants	3.8.2020 to 14.8.2020	III Semester B.Sc. BBG and MBG	106
4.	Add-on course	Environmental Management	4/9/2020 – 10/9/2020	I Sem. B.Sc. BBG, MBG, BBB	222
5.	Non CGPA Credit Course	Food and Nutrition	2.3.2021 - 10.4.2021	IV Semester – BBG, MBG, BBB	133

V. Books & Journals

(Response to Key performance indicator query No. 11)

Link to access invoices of purchase:

https://drive.google.com/drive/folders/1qvSX_kABYnNeXI2Fc1ykT1ytPG559fR5?usp=sharing

Sl. No	Author	Title
1	K K Kapoor	An Introduction to Microbiology
2	S C Rastogi	Biochemistry
3	T A Brown	Biochemistry
4	Rastogi	Biostatistics
5	Sharma	Practical Manual of Biochemistry
6	Siddhartha Mukherjee	The Gene: An Intimate History
7	Alice Roberts	The Incredible Unlikelihood of Being- Evolution and the Making of Us
8	Craig Venter	A Life Decoded
9	Robert Kanigel	The Man who knew infinity: A life of the genius Ramanujan
10	Uma Prarneswaran	C V Raman: A biography
11	Rebecca Skloot	The Immortal Life of Henrietta lacks
12	Jonathan Weiner	Time, Love, Memory
13	Michael Pollan	The Botany of desire: A Plant's-Eye View of the World
14	James Watson	The Double Helix
15	Nick Lane	Life Ascending; The Ten Great Inventions of Evolution



Journals	
1	Indian Journal of Biochemistry
2	Indian Journal of Experimental Biology
3	CSIR News
4	Indian Journal of Biochemistry and Biophysics
5	Indian Journal of Natural Products and Resources

VI. Outreach Activities

(Response to Key performance indicator query No. 12)

Date	Name of the Activity	Beneficiaries	Website Link to report
8. 03. 2021	'Prerana- Introduction to Experimental Science'- Training for Science students (10+2)	Higher secondary school students from 1. Royal Concord PU College 2. St. Vincent Pallotti PU College.	https://glimpses.kristujayanti.edu.in/news/outreach-programme-prerana-introduction-to-experimental-science-training-for-science-students-2
16. 3. 2021	'Prerana- Introduction to Experimental Science'- Training for Science students (High School)	High School students from 1. Netaji High School 2. Sri Siddaganga High School	https://glimpses.kristujayanti.edu.in/news/outreach-programme-prerana-introduction-to-experimental-science-training-for-science-students

VII. INVITED LECTURES (2020-21)

(Response to Key performance indicator query No. 14)

Sl. No	Date DD/MM/YY	Full Title	Name of the Resource Person(s) with designation	No of Participants	Website link to report
1.	05. 06. 2020	Waste Valorization: A New Paradigm For Sustainable Environment	Dr. Jastin Samuel R Asst. Professor Lovely Professional University, Jalandhar, Punjab	215	https://glimpses.kristujayanti.edu.in/news/a-new-paradigm-for-sustainable-environment
2.	26. 06. 2020	Applications of Mass Spectrometry in Biology	Dr. Monita Muralidharan, Staff Scientist Department of Cellular & Molecular Pharmacology, University of California, San Francisco	100	https://glimpses.kristujayanti.edu.in/news/applications-of-mass-spectrometry-in-biology



Sl. No	Date DD/MM/YY	Full Title	Name of the Resource Person(s) with designation	No of Participants	Website link to report
3.	15. 9. 2020	Webinar on 'Viral vectors: Overcoming Hurdles for Commercialization of Gene Therapy'	Prof. Sam Laurel Stephenson Scientist, National Biologics center, U.K.	480	https://glimpses.kristujayanti.edu.in/news/online-international-webinar-on-viral-vectors-overcoming-hurdles-for-commercialization-of-gene-therapy
4.	3. 10. 2020	Webinar on 'Cell lines in Modern Cancer research'	Dr. Alphy Rose James Project Manager Department of Infectious Diseases Kasturbha Medical College, Manipal	278	https://glimpses.kristujayanti.edu.in/news/alumni-expert-lecture-on-cell-lines-in-modern-cancer-research
5.	24. 10. 2020	Webinar on Bioleaching, Bioprocess and Bioproduct (3B'S Industry) Developments	Dr. O. Parthiba Karthigeyan Research Assistant Professor Department of Engineering Technology University of Houston, Texas, U.S.A.	278	https://glimpses.kristujayanti.edu.in/news/international-expert-lecture-series
6.	20. 11. 2020	Webinar on "Biopolymers as Medical Implants"	Dr. Mukesh Doble Professor Emeritus Department of Biotechnology IIT, Madras	168	https://glimpses.kristujayanti.edu.in/news/expert-lecture-on-polymers-as-medical-implants
7.	28. 11. 2020	Webinar on "Stem Cells – The latest Medical Breakthrough"	Dr. D. Avinashi Gandhi Scientific coordinator Mother cell Regenerative centre, Trichy, Tamilnadu	270	https://glimpses.kristujayanti.edu.in/news/skill-enrichment-program
8.	5. 12. 2020	Webinar on Careers and Marriages: The drama of Genes not Jeans	Dr. Mittur N. Jagadish Former Head – Biotechnology Facilitation Cell, KITS Govt. of Karnataka, Bangalore	230	https://kristujayanti.edu.in/academics/College-Arts-Science-Commerce/Faculty-Sciences/department-lifescience/DBT-Star-College-Scheme.php
9.	15.12 2020	National Webinar on Scientific Validation of some ethno medicinal plants	Dr. S Ignacimuthu SJ Former Vice Chancellor, Bharathiar University	350	https://kristujayanti.edu.in/academics/College-Arts-Science-Commerce/Faculty-



Sl. No	Date DD/MM/YY	Full Title	Name of the Resource Person(s) with designation	No of Participants	Website link to report
					Sciences/department-lifescience/Guest-Lecture.php
10.	11. 2. 2021	Expert lecture on Women in conservation	Dr. Madhoolika Agarwal Prof. & Head Department of Botany Banaras Hindu University, Varanasi	270	https://glimpses.kristujayanti.edu.in/news/expert-talk-commemorating-the-6th-international-day-of-women-and-girls-in-science-women-in-conservation
11.	11.2.2021	Expert lecture on Women in Biology	Dr. Jayadevi Variyar Prof. & Head Dept. of Biotechnology and Microbiology, Kannur University, Kerela	270	https://glimpses.kristujayanti.edu.in/news/expert-talk-commemorating-the-6th-international-day-of-women-and-girls-in-science-women-in-biology
12.	12.2.2021	Webinar on Wet Lands: Kidneys of Earth	Prof. M.Rajesh Faculty, Department of Zoology The American College, Madurai	178	https://glimpses.kristujayanti.edu.in/news/expert-lecture-on-wetlands-kidneys-of-earth
13.	15.2.2021	Guest Lecture on How genes influence on natural selection?	Dr.S. Dinakaran Prof & Head, Department of Zoology Madhura College, Madurai	270	https://glimpses.kristujayanti.edu.in/news/expert-lecture-on-how-genes-influence-on-natural-selection
14.	26.2.2021	Guest lecture on Science Adventures: Unravelling Mysteries one experiment at a time	Dr. Joseph Jose Thothacherry Research Associate, St. Johnston Laboratory University of Cambridge	350	https://glimpses.kristujayanti.edu.in/news/international-lecture-on-science-adventures-unravelling-mysteries-one-experiment-at-a-time
15.	27.2.2021	Lecture on Future of STI: Impact of education, skills and work	Dr. Binoy K. Saikia, Senior scientist CSIR North east Institute of technology, Jorhat, Assam	270	https://glimpses.kristujayanti.edu.in/news/commemorate-national-science-day-2021
16.	22.3.2021	Webinar on Valuing Water	Dr. K. Parameshwari Associate professor	234	https://glimpses.kristujayanti.edu.in/ne



Sl. No	Date DD/MM/YY	Full Title	Name of the Resource Person(s) with designation	No of Participants	Website link to report
			Department of Chemistry Karunya institute of science and technology, Coimbatore		ws/commemorating-world-water-day-expert-talk-valuing-water
17.	24.3.2021	Expert talk on TB – Current Scenario	Dr.M.Muthuraj Bacteriologist and Head Govt. Hospital for chest disease, Pondicherry	234	https://glimpses.kristujayanti.edu.in/news/commemoration-of-world-tuberculosis-day-expert-talk-tb-current-scenario



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