



## DEPARTMENT OF BIOTECHNOLOGY

### Faculty achievements:

**Mr. Akash Patel M P** Assistant Professor has received Gold Medal in M.Sc Biotechnology (Environmental Biotechnology) by Honourable Governor of Karnataka and Vice chancellor on 10<sup>th</sup> Convocation 2022-23 at Davangere University.



### Research paper Published:

**Dr. Pavan K. J**, Assistant Professor and **Dr Prakash K K**, Associate Professor and Head, Department of Biotechnology, has published an article on **“Implementation of artificial intelligence for sustainable agriculture”** at UGC STRIDE Sponsored Two-Day International e-Conference on **“Bridging the gap between Academia, Research & Industry for Local & Global Competency”** with ISBN: **978-93-5426-012-4**.



Proceedings of IQAC Initiated UGC STRIDE Sponsored Two-Day International e-Conference on “Bridging the gap between Academia, Research and Industry for Local & Global Competency” held On 27<sup>th</sup> & 28<sup>th</sup> October 2020 ISBN: 978-93-5426-012-4

#### **Implementation of artificial intelligence for sustainable agriculture**

**Pavan K. J<sup>1</sup>, Prakash K. K<sup>2</sup>, Naveen Kumar. M<sup>3</sup> and Rajeev Potadar<sup>4</sup>**

<sup>1</sup> Assistant Professor, <sup>2</sup> Associate Professor, Department of Biotechnology, GM Institute of Technology, Davanagere, - 577006

<sup>3</sup> Assistant Professor, Department of Biotechnology and Genetics, M. S. Ramaiah College of Science, Bengaluru- 560 054

<sup>4</sup> Assistant Professor, Department of Biotechnology, KLE Nijalingappa College, Bengaluru- 560 010

Corresponding Author: [-prakashkk@gmit.ac.in](mailto:-prakashkk@gmit.ac.in)

#### **Abstract: -**

According to UN Food and Agriculture Organization, the population will increase by 2 billion by 2050. However, only 4% additional land will come under cultivation by then.

**Research paper Published:**

**Dr Prakash K K** Associate Professor and Head and **Dr. Pavan K. J**, Assistant Professor, Department of Biotechnology, has published an article on “**Present Scenario of Science in India**” at UGC STRIDE Sponsored Two-Day International e-Conference on “*Bridging the gap between Academia, Research and Industry for Local &Global Competency*” with ISBN: 978-93-5426-012-4.



Proceedings of IQAC Initiated UGC STRIDE Sponsored Two-Day International e-Conference on “Bridging the gap between Academia, Research and Industry for Local &Global Competency”

held On 27<sup>th</sup> & 28<sup>th</sup> October 2020  
ISBN: 978-93-5426-012-4

**Present Scenario of Science in India**

**Prakash K K<sup>1</sup>, Santhosh B M<sup>2</sup> and Pavan K J<sup>3</sup>**

Associate Professor<sup>1</sup>, Department of Biotechnology, Assistant Professor<sup>2</sup>, Department of Chemistry, Assistant Professor<sup>3</sup> Department of Biotechnology  
GM Institute of Technology, Davanagere. Karnataka, India.

Corresponding author: -drpavankj@gmit.ac.in

**Abstract**

Global scientific chases provide a huge amount of new revelations about the natural world, the gap between lay public and the scientific community widens more than ever. Frequent instances of a disturbing public show of ignorance about rather established scientific knowledge, almost all over the world, may well be dismissed as rather outliers or means for political or economic gains. In contrast, scientific endeavours all around the

**Mr. Ganesh Tilve**  
**Assistant Professor**



- **Faculty Development Program/ Training Program :**

**Mr. Ganesh Tilve** participated in One Week AICTE- VTU Joint Online Teachers Training Program on “An Overview of Teaching Techniques in Scientific Foundation of Health” organized by VTU Human Resource Development Cell (VTU-HRDC), Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (D) between 20<sup>th</sup>- 24<sup>th</sup> December, 2021



**Conference participation:**

**Mr. Ganesh Tilve** participated in international conference on “Emerging Trends in Plant Sciences” organized by Department of Botany, Girraj Government College (A), Nizamabad in collaboration with Department of Botany, Telangana University on 5<sup>th</sup> and 6<sup>th</sup> January, 2022



**International Conference participation:**

Mr. Ganesh Tilve participated in three-day international conference on “Emerging Trends in Biological Sciences (ICETBS-2022)” organized by Department of Biological Sciences, P. D. Patel Institute of Applied Sciences, CHARUSAT in association with GSBTM, DST, GoG between 9<sup>th</sup> to 11<sup>th</sup> January, 2022





- International Conference participation:

**Mr. Ganesh Tilve** participated in two-day international virtual conference on “**Plant Physiology and Biochemistry (IVCPB-2022)**” organized by Department of Botany, Fatima Mata National College (Autonomous), Kollam (Kerala) on 19<sup>th</sup> and 20<sup>th</sup> January, 2022



- National Webinar participation

**Mr. Ganesh Tilve** participated in national webinar on “**Creating Food and Nutrition Security For a Sustainable Future**” organized by Faculty of Ocean Science and Technology (FOST), Kerala University of Fisheries and Ocean Studies (KUFOS), Panangad, Kochi in collaboration with Association of Indian Universities (AIU) held on 11<sup>th</sup> and 12<sup>th</sup> January, 2022



- National Webinar participation :

**Mr. Ganesh Tilve** participated in national webinar on “**Balanced Nutrition Through Microbial Food Additives**” on the occasion of Azadi ka Amrit Mahotsav, organized by the Department of Microbiology and Fermentation Technology, CSIR- Central Food technological Research Institute, Mysuru-570020 on 10<sup>th</sup> January, 2022





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**Academic Research – Faculty Contributions**

| <b>SL. No.</b> | <b>Category</b>              | <b>Numbers</b> |
|----------------|------------------------------|----------------|
| 1              | Patents                      | 09             |
| 2              | Books                        | 07             |
| 3              | Publications                 | 15             |
| 4              | Conference Oral Presentation | 26             |
| 5              | Awards                       | 6              |
| 6              | FDPs/ STTPs                  | 43             |
| 7              | Board of Examiners/ Studies  | 3              |



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**Academic Research – Patents**

| <b>SL. No.</b> | <b>Name of Faculty</b> | <b>Patent Title</b>   | <b>Status</b>    | <b>Publisher</b>       | <b>Application Number</b>            |
|----------------|------------------------|---|------------------|------------------------|--------------------------------------|
| <b>1</b>       | <b>Dr.Gurumurthy H</b> | <b>“A single window documentation procedure for multiple Assessment and appraisal requirements”</b>                     | <b>Published</b> | <b>Indian patent</b>   | <b>202041029920 A<br/>13/11/2020</b> |
| <b>2</b>       | <b>Dr.Gurumurthy H</b> | <b>An antioxidant compound extracted from roots magnifira indiacca L. var rasapuri</b>                                  | <b>Published</b> | <b>Indian Patent</b>   | <b>2021441007062A<br/>26/02/2021</b> |
| <b>3</b>       | <b>Dr.Prakash K K</b>  | <b>IAIP-Interactive Business Data: Interactive Intelligent Business Data Visualization Using AI-Based Programming.”</b> | <b>Published</b> | <b>Indian patent</b>   | <b>202011041959</b>                  |
| <b>4</b>       | <b>Dr.Prakash K K</b>  | <b>Artificial Intelligence based real time drowsiness detection system”</b>   | <b>Published</b> | <b>Australian Govt</b> | <b>2020102320</b>                    |



|   |  |   |                  |                             |  |
|---|--|---|------------------|-----------------------------|--|
| 5 | <b>Dr.Prakash K K<br/>Dr.Gurumurthy D M<br/>Dr.Pavan K J</b> | <b>IBAM-Mineral Water Quality Testing System: IoT-Based Automatic Mineral Water Quality Testing and Management System</b> | <b>Published</b> | <b>Indian patent</b>        | <b>202041051636</b>                                      |
| 6 | <b>Dr.Gurumurthy H<br/>Dr.Gurumurthy D M</b>                 | <b>OFOM formulation for the soil free Began plant cultivation.</b>  | <b>FILED</b>     | <b>United-States Patent</b> | <b>Reference Application no: US/PC/11-234567-HS/2021</b> |
| 7 | <b>Dr.Prakash K K<br/>Dr.Gurumurthy D M<br/>Dr.Pavan K J</b> | <b>Enhanced storage Method of Gravitational storage of gravitational energy to manage renewable resources</b>             | <b>Published</b> | <b>Indian Patent</b>        | <b>202041051636A<br/>08/01/2021</b>                      |
| 8 | <b>Mr. Rakesh NR</b>   | <b>“Regulatory of Ecosystem Service Research Trends and Methodological Approaches For Undervalued Services”.</b>          | <b>Published</b> | <b>Indian Patent</b>        | <b>Application Number: 202141008393</b>                  |
| 9 | <b>Mrs. Deepthi Palleda</b>                                  | <b>“A System and Method for an Artificial Intelligence Based Automatic Adjustable user Comport seat for two wheelers”</b> | <b>Published</b> | <b>Indian Patent</b>        | <b>Application Number: 202141031659</b>                  |



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**Academic Research – Faculty Book / Chapters**

| SL. No. | Name of Faculty                      | Title of the Book   | Publisher                 | ISBN                          | Year |
|---------|--------------------------------------|---|---------------------------|-------------------------------|------|
| 1       | Dr. Pavan K J and<br>Dr. Prakash K K | Molecular Charecterization of<br>Plant Promoting Bacteria               | Scholars Press            | ISBN: - 978-613-<br>8-96460-5 | 2021 |
| 2       | Dr. Gurumurthy H<br>Mr. Ganesh T     | Insilico Charecterization of<br>TB Strains phylogenetic<br>Approch      | LAP Lambert,<br>Mauritius | ISBN 978-620-0-<br>47654-8    | 2020 |
| 3       | Mrs. Keerthi. S                      | Radiomacs feturextraction<br>and classification of Brain<br>lesion      | LAP Lambert,<br>Mauritius | ISBN<br>978325656784          | 2020 |
| 4       | Dr. Prakash K K                      | The Structural and functional<br>adaptation of Psychrophilic<br>enzymes | Scholer Press             | ISBN<br>9786138939313         | 2020 |
| 5       | Dr. Prakash K K                      | Development of memory B-<br>cells                                       | LAP Lambert,<br>Mauritius | ISBN 978-620-2-<br>68021-9    | 2020 |

|          |                            |  |                                |                               |             |
|----------|----------------------------|--|--------------------------------|-------------------------------|-------------|
| <b>6</b> | <b>Dr. Prakash K K</b>     | <b>Aerobacteriological Investigation of Different Occupational Sites in Davanagere.</b>            | <b>LAP Lambert, Mauritius.</b> | <b>ISBN 978-620-0-47654-8</b> | <b>2020</b> |
| <b>7</b> | <b>Dr. D. M Gurumurthy</b> | <b>Novel thermophilic microorganism and their Industrial applications. LAP Lambert, Mauritius.</b> | <b>LAP Lambert, Mauritius</b>  | <b>ISBN 978-620-0-56751-2</b> | <b>2020</b> |



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**Academic Research – Faculty Publications**

| SL. No. | Authors        | Title of the Paper  | Journal   | DOI  |
|---------|----------------|---|---|--|
| 1       | D M Gurumurthy | Various strategies applied for the removal of Emerging Micropollutant Sulfamethazine: A systematic review. Env. Sci. Pollution Res. | Env. Sci. Pollution Res. (IF: 3.056)<br>2021  | DOI: <a href="https://doi.org/10.1007/s11356-021-14259-w">https://doi.org/10.1007/s11356-021-14259-w</a><br>12 Citations |
| 2       | D M Gurumurthy | Decolorization of Amaranth R I and Fast red E azo dyes by thermophilic Geobacillus thermoleovorans KNG 112                          | J Chem Technol Biotechnology,<br>2021   | DOI: <a href="https://doi.org/10.1002/jctb.6834">https://doi.org/10.1002/jctb.6834</a><br>1 Citation                     |
| 3       | D M Gurumurthy | Cell wall-associated DEET for Fe (III) reduction from Geobacillus sp. in an anoxic environment                                      | Extremophiles 2021  | --   |
| 4       | D M Gurumurthy | Evaluation of Cell wall-associated DEET for in thermophilic Geobacillus sp  | 3 Biotech, 2020   | DOI: : <a href="https://doi.org/10.1007/s13205-021-02917-2">10.1007/s13205-021-02917-2</a><br>2 Citations                |
| 5       | D M Gurumurthy | Cyanoxanthomycin, a Bacterial Antimicrobial Compound Extracted from Thermophilic Geobacillus sp. Iso5                               | Jordan J Biol Sci. 13(5): 2019  | --   |
| 6       | D M Gurumurthy | EPS bound flavins driven mediated electron transfer in thermophilic Geobacillus sp  | Microbiol. Res. 229:<br><a href="https://doi.org/10.1016/j.micres.2019.126324">126324.doi.org/10.1016/j.micres</a><br>.2019.126324 , 2019 | DOI: <a href="https://doi.org/10.1016/j.micres.2019.126324">https://doi.org/10.1016/j.micres.2019.126324</a>             |



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| 7  | D M Gurumurthy                              | Novel Geobacillus thermoleovorans KNG 112 thermophilic bacteria from Bandaru hot spring: A potential producer of thermostable enzymes                    | Asian J Pharm Clin Res. 13: 134-141. 2020   | DOI: <a href="https://doi.org/10.22159/ajpcr.2020.v13i1.36008">https://doi.org/10.22159/ajpcr.2020.v13i1.36008</a> |
| 8  | H. Gurumurthy<br>Rakesh N R                 | Biofuel Production and Biosorption In Industrial Waste Water Using Microalge   | International Journal of Emerging Technologies and Innovative Research (JETIR) , Volume 6, Issue 6, PP 525-529,2019 | --   |
| 9  | Rakesh N R<br>H. Gurumurthy<br>Ganesh Tilve | “Quality Starch Extraction and Ethanol Synthesis along Examined Phytocomposition from Curcuma angustifolia”  | International Journal of Molecular Biotechnology  | --   |
| 10 | Pavan K J                                   | De-crystallization of calcium oxalate and uric acid crystals by using musa paradisiaca stem extract  | Int. J. Res. Ayurveda Pharm. 12 (2), 2021   | --   |
| 11 | Pavan K J                                   | Divulging pigmented microbial community from hyperalkaline lonar lake.   | Journal of Emerging Technologies and Innovative Research, 2022  | --   |
| 11 | Rakesh NR                                   | In-silico pharmacological and molecular docking studies of natural inhibitors form Musa spp. On vacA gene a vacuolating cytotoxin autotransporter        | Material Science and Engineering: Conference Series, IOP Science (2020)   | DOI: <a href="https://doi.org/10.1088/1757-899X/925/1/012051">10.1088/1757-899X/925/1/012051</a>                   |
| 12 | Keerthi S                                   | Design Optimization production of ethanol from maize   | Material Science and Engineering: Conference Series, IOP Science (2020)   | DOI:: 10.1088/1757-899X/925/1/012041   |
| 13 | Prakash K K                                 | Electrochemical Determination Of Dopamine In Presence Of Uric Acid At Eucalyptus Oil (Eu-O) Modified Carbon Paste Electrode: A Cyclic Voltammetric Study | Annals of the Romanian Society for Cell Biology, 2021   | --   |

|    |                 |   |  |  |
|----|-----------------|---|--|--|
| 14 | Deepthi Palleda | Characterization and in-vitro cytotoxicity of lupeol isolated from leaf extract of ficus mysorensis | The International Journal of Health Sciences (IJHS), 2022      | DOI: <a href="https://doi.org/10.53730/ijhs.v6nS5.9105">https://doi.org/10.53730/ijhs.v6nS5.9105</a> |
| 15 | Deepthi Palleda | Probiotics for Cholesterol Assimilation   | Journal of Emerging Technologies and Innovative Research, 2021 | --   |



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## DEPARTMENT OF BIOTECHNOLOGY

### List of Faculty Members Participated in Conference

| Sl No | Faculty Name                   | Conference  | Place   | Year   |
|-------|--------------------------------|---|---|--|
| 1     | Mr. Rakesh N. R                | Insilico Pharmacological and Molecular Docking Studies of Natural Inhibitors from Musa Sp. On vacA gene a vacuolating cytotoxin autotransporter.                            | GMIT, Davanagere                                  | 17 <sup>th</sup> and 18 <sup>th</sup> July 2020      |
| 2     | Dr. Prakash K K                | Recent Innovation In Science Engineering and Technology – Synthesis of Zro2 Nanoparticle-based carbon paste electrode for the electrochemical investigation of paracetamol. | JIT, Sroperamudur, Tamilnadu                      | 24 <sup>th</sup> and 25 <sup>th</sup> July 2020      |
| 3     | Dr. Prakash K K                | Electrochemical Detection of Serotonin using t-Zro2 nano particles modified carbon paste electrode  | Oxford college of science, Bengaluru              | 18 <sup>th</sup> and 19 <sup>th</sup> September 2020 |
| 4     | Dr. Prakash K K                | Present Scenario of Science in India  | Sri Nijalingappa Scinece College, Bengaluru       | 27 <sup>th</sup> and 28 <sup>th</sup> October 2020   |
| 5     | Dr. Pavan K J/ Dr. Prakash K K | Implementation of Artificial Intelligence for sustainable agriculture   | Dayananad Sagar College of Engineering, Bengaluru | 27 <sup>th</sup> and 28 <sup>th</sup> October 2020   |
| 6     | Dr. Prakash K K                | Root Associated plant growth promoting bacteria from rhizosphere of rice Varities   | Dayananad Sagar College of Engineering, Bengaluru | 07 <sup>th</sup> and 08 <sup>th</sup> December 2020  |
| 7     | Dr. Prakash K K                | Optimization of antidiabetic charantin from Momordica chrantia  | Dayananad Sagar College of Engineering, Bengaluru | 07 <sup>th</sup> and 9 <sup>th</sup> December 2021   |
| 8     | Dr. Prakash K K                | Areca Multigrain digestive biscuits   | Dayananad Sagar College of Engineering, Bengaluru | 07 <sup>th</sup> and 9 <sup>th</sup> December 2022   |
| 9     | Dr. Prakash K K                | Potential of Brivibacillus strain as Plant growth Promoting Bacteria in Rice  | PD Patel Institute, Gujrath                       | 10 <sup>th</sup> and 12 <sup>th</sup> December 2020  |

|           |                                    |  |   |   |
|-----------|------------------------------------|--|---|---|
| 10        | Mrs. Deepthi Palleda               | In vitro hepatoprotective activity assessment potential of Ficus mysorensis Roth                                       | DGDV College, Chennai                                       | 17 <sup>th</sup> and 18 <sup>th</sup> December 2021     |
| 11        | Mrs. Deepthi Palleda               | In vitro qualitative phytochemical analysis and Antioxidant potential of FICUS MYSORENSIS Roth                         | Kuvempu University  | 31 <sup>st</sup> March 2020                             |
| 12        | Dr.Gurumurthy H                    | “Computational Engineering and Material Science” (ICCEMS 2020)   | GMIT,Davangere  | 17 <sup>th</sup> and 18 <sup>th</sup> July 2020.        |
| 13        | Dr.Gurumurthy H                    | Bio-Innovation,Patenting and Entrepreneurship oppourtunities in Biotechnology for Sustainable Environment              | Oxford college of science, Bengaluru                        | 29 <sup>th</sup> and 30 <sup>th</sup> March 2020        |
| 14        | Dr. Prakash K K                    | Chemical and Biological sciences   | Dayananad Sagar College of Engineering, Bengaluru           | 7 <sup>th</sup> and 9 <sup>th</sup> December 2020       |
| 15        | Dr. Pavan K. J                     | “Root associated plant growth promoting bacteria from rhizosphere of rice (Oryza Sativa L) Varites”. \                 | Dayananad Sagar College of Engineering, Bengaluru           | 7 <sup>th</sup> to 9 <sup>th</sup> December 2020        |
| 16        | Dr. Pavan K. J                     | Poster entitled “Potential of Brivibacillus Strain as Plant Growth Promoting Bacteria in Rice (Oryza sativa L.) Crop”. | ,P. D. Patel Institute of Applied Sciences, CHARUSAT-Gujrat | 10 <sup>th</sup> -12 <sup>th</sup> December, 2020.      |
| 17        | Dr. Pavan K. J                     | International Conference Oral Presentation “Implementation of artificial intelligence for sustainable agriculture”     | Sri Nijalingappa Scinece College, Bengaluru                 | 27 <sup>th</sup> and & 28 <sup>th</sup> of October 2020 |
| 18        | Mrs. Deepti Palleda                | Nation Conference on Science Engineering and Management  | Bangalore   | 15 <sup>th</sup> July 2020                              |
| 19        | Mrs. Deepti Palleda                | National Conference on IOT in Agriculture  | Bangalore   | 15 <sup>th</sup> and 16 <sup>th</sup> June 2020         |
| <b>20</b> | Mrs. Keerthi S / Ms. Shalini Billa | Mixed type solar dryer integrated with phase change Material (PCM) for drying agricultural products                    | GMIT, Davanagere  | 15 <sup>th</sup> and 16 <sup>th</sup> July 2021         |
| <b>21</b> | Mr. Ganesh G Tilavi                | Synthesis of Chitosan Nanoparticles and Its Antimicrobial Application in Medical Protective wears                      | GMIT, Davanagere  | 16 <sup>th</sup> and 16 <sup>th</sup> July 2021         |



|           |                      |   |                  |   |
|-----------|----------------------|---|------------------|---|
| <b>22</b> | Dr. Gurumurthy D M   | Optimization of Ethyl Levulinate extraction from sugarcane Bagasse  | GMIT, Davanagere | 17 <sup>th</sup> and 16 <sup>th</sup> July 2021 |
| <b>23</b> | Mrs. Deepthi Palleda | Probiotics for Cholestrol Assimilation  | GMIT, Davanagere | 18 <sup>th</sup> and 16 <sup>th</sup> July 2021 |
| <b>24</b> | Mr. Rakesh N R       | Chitosan and Banana Pseudostem composite in Antimicrobial Food packaging Applications   | GMIT, Davanagere | 19 <sup>th</sup> and 16 <sup>th</sup> July 2021 |
| <b>25</b> | Dr. Prakash K K      | Production of Liquid Bio-fertilizer from Parthenium Hysterophorous  | GMIT, Davanagere | 20 <sup>th</sup> and 16 <sup>th</sup> July 2021 |
| <b>26</b> | Dr. Pavan K. J       | Molecular Charecterization of Plant Growth promoting Bacteria Isolated from the Rhizosphere of <i>Areca catechu</i> .L Plantation | GMIT, Davanagere | 21 <sup>st</sup> and 16 <sup>th</sup> July 2021 |



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**Academic Research – Board Members**

| <b>Sl No</b> | <b>Name of Faculty</b>  | <b>BOE/BOS</b>   | <b>Associated University / Institute</b>   |
|--------------|-------------------------|--|--|
| <b>1</b>     | <b>Dr. Gurumurthy H</b> | <b>-VTU Appointed BOE Chairman (2020-21)<br/>-BOE Member Dept of Biotechnology (2020-21)</b>       | <b>-VTU<br/>-SIT Tumkur</b>  |
| <b>2</b>     | <b>Dr. Prakash K K</b>  | <b>-BOE Member Dept of Biotechnology (2021-22)<br/>-BOE Member Dept of Biotechnology (2020-21)</b> | <b>-VTU<br/>-KLE Science Institute (Jabin), Hubballi</b>                                 |
| <b>3</b>     | <b>Dr. Pavan K J</b>    | <b>-BOS Member Dept of Biotechnology (2021-22)<br/>-BOE Member Dept of Biotechnology (2020-21)</b> | <b>-KLE R L Science Institute, Belagavi<br/>-KLE Science Institute (Jabin), Hubballi</b> |



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**Academic Research – FDP**

**List of Faculty members participated in Faculty Development Training Activities / ST  
(2020-2021)**

| <b>Sl No</b> | <b>Faculty Name</b> | <b>FDP- Title</b>  | <b>Year of Interaction</b> |
|--------------|---------------------|--|----------------------------|
| 1            | Dr. Gurumurthy H    | Biotechnology Vs Covid Challenges ..   | 24-05-2021 to 28-05-2021   |
| 2            | Dr. Gurumurthy H    | Start up Driven Bioinnovations and IOT for Sustainable Agritech Phase 1                                    | 20-09-2021 to 25-09-2021   |
| 3            | Dr. Gurumurthy H    | Start up Driven Bioinnovations and IOT for Sustainable Agritech Phase 2                                    | 23-08-2021 to 28-08-2021   |
| 4            | Dr. Gurumurthy H    | PCR-Types and Applications   | 28-06--2021 to 29-06-2021  |
| 5            | Dr. Prakash K K     | Genome Engineering and Technology  | 28-09-2020 to 02-10-2020   |
| 6            | Dr. Prakash K K     | Advances in the synthesis of nano materials and their applications in the field of science and engineering | 19-10-2020 to 23-10-2020   |
| 7            | Dr. Prakash K K     | Recent Trends in material Science  | 02-11-2020 to 06-011-2020  |

|    |                      |  |                          |
|----|----------------------|--|--------------------------|
| 8  | Dr. Prakash K K      | Trends in Computational biology  | 09-12-2020 to 13-12-2020 |
| 9  | Dr. Prakash K K      | Biotechnology Vs Covid Challenges ..   | 24-05-2021 to 28-05-2021 |
| 10 | Mrs. Keerthi S       | Trends in Computational biology  | 09-12-2020 to 13-12-2020 |
| 11 | Mr. Rakesh N R       | STTP- Nano Particulate Drug Delivery System  | 20-09-2021 to 25-09-2021 |
| 12 | Mr. Rakesh N R       | Bio innovation patenting and entrepreneurship opportunities in biotechnology for sustainable environment | 29-03-2021 to 30-03-2021 |
| 13 | Mr. Rakesh N R       | Recent Trends in Food Science and Technology   | 11-06-2021-12-06-2021    |
| 14 | Mr. Rakesh N R       | Nano particle Drug Delivery System : Developmental Approches and Charecterization                        | 20-09-2021 to 25-09-2021 |
| 15 | Mr. Rakesh N R       | Trends in Computational Biology  | 01-02-2021 to 05-02-2021 |
| 16 | Mrs. Deepthi Palleda | COE for Innovation Research and Entrepreneurship   | 28-06-2021 to 03-07-2021 |
| 17 | Dr. Gurumurthy D M   | Trends in Computational Biology  | 01-02-2021 to 05-02-2021 |
| 18 | Dr. Gurumurthy D M   | Research Avenues in Genomics   | 28-09-2020 to 02-10-2020 |
| 19 | Dr. Pavan K J        | Digital Teaching Techniques  | 01-02-2021 to 06-02-2021 |



|    |               |  |                          |
|----|---------------|--|--------------------------|
| 20 | Dr. Pavan K J | Computational Biology  | 01-02-2021 to 05-02-2021 |
| 21 | Dr. Pavan K J | ISO TUV One Month Internal Auditor Course                        | 09-11-2020 to 10-09-2020 |
| 22 | Dr. Pavan K J | Trends in Computational Biology                                  | 01-02-2021 to 05-02-2021 |
| 23 | Dr. Pavan K J | Emerging Techniques in Biomedical Instrumentation -<br>ETBI 2021 | 28-06-2021 to 03-07-2021 |



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**List of Faculty members participated in Faculty Development Training Activities / STTPs for CAY (2019-2020)**

| Sl No | Faculty Name         | FDP- Title   | Year of Interaction       |
|-------|----------------------|--|---------------------------|
| 1     | Dr. Gurumurthy H     | FDP - Information and Communication Technology (ICT) and outcome-based education (OBE) | 21-01-2020 to 25-01-2020  |
| 2     | Dr. Prakash K K      | FDP - Information and Communication Technology (ICT) and outcome-based education (OBE) | 06-07-2020 to 10 -07-2020 |
| 3     | Dr. Prakash K K      | FDP – Innovation and Research Opportunity for Faculty in the new normal.               | 05-06-2020 to 05-06-2020  |
| 4     | Mrs. Keerthi S       | FDP – OBE and Its impact on accreditation process                                      | 06-07-2020 to 10-07-2020  |
| 5     | Mr. Rakesh N R       | Outcome based Education and NBA Accreditation  | 23-12-2019 to 28-12-2019  |
| 6     | Mr. Rakesh N R       | FDP – OBE and Its impact on accreditation process                                      | 06-07-2020 to 10-07-2020  |
| 7     | Mr. Rakesh N R       | FDP - Information and Communication Technology (ICT) and outcome-based education (OBE) | 21-01-2020 to 25-01-2020  |
| 8     | Mrs. Deepthi Palleda | FDP – OBE and Its impact on accreditation process                                      | 06-07-2020 to 10-07-2020  |
| 9     | Mrs. Deepthi Palleda | FDP – Innovation and Research Opportunity for Faculty in the new normal.               | 05-06-2020 to 05-06-2020  |

|    |                    |  |                           |
|----|--------------------|--|---------------------------|
| 10 | Dr. Gurumurthy D M | FDP- OBE and Its impact on accreditation process                                       | 06-07-2020 to 10 -07-2020 |
| 11 | Dr. Gurumurthy D M | FDP – OBE and Its impact on accreditation process                                      | 06-07-2020 to 10 -07-2020 |
| 12 | Dr. Gurumurthy D M | FDP – Innovation and Research Opportunity for Faculty in the new normal.               | 05-06-2020 to 05-06-2020  |
| 13 | Mr. Sachin C L     | FDP - Information and Communication Technology (ICT) and outcome-based education (OBE) | 21-01-2020 to 25-01-2020  |
| 14 | Mr. Sachin C L     | FDP – Innovation and Research Opportunity for Faculty in the new normal.               | 05-06-2020 to 05-06-2020  |



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**List of Faculty members participated in Faculty Development Training Activities / STTPs for CAY (2018-2019)**

| <b>Sl No</b> | <b>Faculty Name</b> | <b>FDP / STTP- Participation</b>  | <b>Year</b>              |
|--------------|---------------------|---|--------------------------|
| 1            | Mrs. Keerthi S      | Business Analytics - A management Tool                                  | 27-04-2019 to 29-04-2019 |
| 2            | Mrs. Keerthi S      | Reserch Funding Oppurtunities and proposal preparation for Academicians | 27-04-2019 to 29-04-2019 |
| 3            | Mrs. Keerthi S      | Information and Communication Technology and OBE                        | 21-01-2020 to 25-01-2020 |
| 4            | Dr. Moorthi S       | Business Analytics - A management Tool                                  | 27-04-2019 to 29-04-2019 |
| 5            | Dr. Moorthi S       | Reserch Funding Oppurtunities and proposal preparation for Academicians | 27-04-2019 to 29-04-2019 |
| 6            | Dr. Moorthi S       | Information and Communication Technology and OBE                        | 21-01-2020 to 25-01-2020 |





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**Faculty Awards - 06**

| <b>Sl No</b> | <b>Name of Faculty</b>   | <b>Award Title</b>                     | <b>Awarding Organization</b>   | <b>Year</b>             |
|--------------|--------------------------|--|--|-------------------------|
| <b>1</b>     | <b>Dr. Gurumurthy DM</b> | <b>Young Scientist</b>                 | <b>DK International Research Foundation</b>  | <b>28 June 2020</b>     |
| <b>2</b>     | <b>Mr. Rakesh N R</b>    | <b>Best Paper</b>                      | <b>1<sup>st</sup> International Conference on Computational Engineering and Material Science</b> | <b>18 July 2020</b>     |
| <b>3</b>     | <b>Dr. Gurumurthy DM</b> | <b>Research and Innovation Award</b>   | <b>Sidhartha Educational and Research Federation</b>   | <b>31 August 2020</b>   |
| <b>4</b>     | <b>Dr. Pavan K J</b>     | <b>Best Oral Presentation</b>          | <b>IQAC Initiated UGC Sponsored – STRIDE International e- conference</b>                         | <b>28 October 2020</b>  |
| <b>5</b>     | <b>Dr. Gurumurthy DM</b> | <b>INSC - Student Project Award</b>    | <b>Institute of Scholars</b>   | <b>21 November 2020</b> |
| <b>6</b>     | <b>Mr. Rakesh N R</b>    | <b>Best Product in Health category</b> | <b>GMIT Product Expo 2021</b>  | <b>6 August 2021</b>    |