University of Calicut

PROFORMA - ANNUAL REPORT 2022 [Research]

(From January 01, 2022 onwards) Name of Research Centre : Department of Statistics

Address : St Thomas College(Autonomous),Thissur-680001

E-mail ID &Contact No. :chackovm@stthomas.ac.in, 9961335938

Part I \*

DETAILS OF RESEARCH SUPERVISORS

1. **Name &Designation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl.  No | Name of Research  Supervisor | Designation | Research  domain | Subject (**if more**  **than 1, specify**) |
| 1 | Dr.V.M.Chacko | Associate Professor and Head | Reliability | Statistics |
| 2 | Dr. Sajesh T A | Assistant Professor | Multivariate Analysis, Robust multivariate techniques, Outlier detection, Statistical quality control | Statistics |
| 3 | Dr Jeena Joseph | Assistant Professor | Distribution theory, time series, reliability | Statistics |
| 4 | Dr.Nicy Sebastian | Asst. Professor | Distribution theory, Reliability analysis, Multivariate analysis, Fractional  calculus, Special functions | Statistics |
| 5 | Dr.Davis Antony M | Associate Professor  Christ College, Irinjalakuda | Time Series and Distribution Theory | Statistics |
| 6 | Dr. Thomas Mathew | Associate Professor  MD College, Pazhanji | Time Series and Distribution Theory | Statistics |
| 7 | Dr. Sreedevi E P | Assistant Professor  SreeNeelakandaGovt College, Pattambi | Survival Analysis | Statistics |
| 8 | Dr Divya P R | Assistant Professor  Department of Statistics  Vimala College(Autonomous), Thrissur | Statistical Quality Control, Distribution Theory, Applied Statistics | Statistics |
| 9 | Dr Prasanth C P | Assistant Professor  Department of Statistics  Sree Kerala Varma College, Thrissur | Distribution Theory, Bio-Statistics, Urbanization & Applied Statistics | Statistics |

1. **Details of Publications during 2022** (**latest first**)
2. **Publications in International Journals during 2022** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No | Author(s) | Title | Journal & year, Volume,  pages | Publisher, Date of Publication with  **doi** | Impact Factor, if  any |
| 1 | Akhila K Varghese, V. M. Chacko, | ESTIMATION OF STRESS-STRENGTH RELIABILITY FOR AKASH DISTRIBUTION, | Reliability: Theory & Applications,  Vol.17 No. 3 (69), issue of September 2022, 52- | Gnedenko e Fourm  <https://doi.org/10.24412/1932-2321-2022-369-52-58> | 0.6 |
| 2 | B M Nayana, K K Anakha, V M Chacko, Mohammed Aslam, Mohammed Albassam, | A New Neutrosophic Model using DUS-Weibull Transformation with Application, | Complex & Intelligent Systems, 10.1007/s40747-022-00698-6, 2022 volume 8, pages.4079–4088 (2022) | Springer  https://doi.org/10.1007/s40747-022-00698-6 | 6.7 |
| 3 | Beenu Thomas & Chacko V M, | Power Generalized DUS Transformation of Exponential Distribution, | International Journal of Statistics and Reliability Engineering, May 2022, pp.150-17, Vol.9(1). | Indian Association of Reliability and Statistics |  |
| 4 | Nicy Sebastian, Jeena Joseph and Princy T. | Type 1 Topp-Leone q-  Exponential Distribution and its Applications | Reliability Theory & Applications, (2022), 17,69(3),361-375. | [Gnedenko Forum](http://www.gnedenko.net/)  <https://doi.org/10.24412/1932-2321-2022-369-361-375> | 0.6 |
| 5 | Deepthy G S and Nicy Sebastian | A New Life Time Distribution: Burr III Modified Weibull Distribution And Its Application in Burn in Process | *Reliability Theory & Applications,* (2022) *17,67(1),76-86.* | [Gnedenko Forum](http://www.gnedenko.net/)  <https://doi.org/10.24412/1932-2321-2022-167-76-86> | 0.6 |
| 6 | A. M. Mathai and Nicy Sebastian | On distributions of covariance structures | *Communications in Statistics - Theory and Methods,* (2022) | [Taylor & Francis](https://www.tandfonline.com/action/journalInformation?show=journalMetrics&journalCode=lsta20)  DOI: [10.1080/03610926.2022.2045022](https://doi.org/10.1080/03610926.2022.2045022) | 0.893 |
| 7 | Sudheesh K. K., Sreedevi E. P. and N. Balakrishnan. | A generalized measure of cumulative residual entropy | Entropy, 24(4), 444. | MDPI, doi: [10.3390/e24040444](https://doi.org/10.3390%2Fe24040444) | 2.524 |
| 8 | Sudheesh K. K. and Sreedevi E. P. | Non-parametric estimation of cumulative (residual) extropy | Statistics and Probability Letters, 185, 109434 | Science Direct, [doi.org/10.1016/j.spl.2022.109434](https://doi.org/10.1016/j.spl.2022.109434) | 0.87 |

1. **Publications in National Journals during 2022** (**latest first**)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl. No | Author(s) in order | Title | Journal & year, Volume, pages | Publisher, Date of Publication,  (**doi**, if any) | ISSN &  Indexed by | Impact Factor, if any |
|  |  |  |  |  |  |  |

1. **Book(s) authored/Edited Volumes/Chapters during 2022** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Author(s) in  order | Title | Publisher,  Volume, pages | Date of  Publication | International/  National |
|  | V M Chacko | ON NEW JOINT IMPORTANCE MEASURES FOR MULTISTATE RELIABILITY SYSTEMS, Chapter 7, [“Computational Intelligence in Sustainable Reliability Engineering”](https://www.scrivenerpublishing.com/cart/title.php?id=756) | Scrivener Publishing (Wiley)  ISBN: 9781119865018 | 30.09.2022 | International |
|  | V M Chacko | On Joint Importance Measures for Multistate System’s Reliability, Operations Research: Methods, Techniques, and Advancements, Chapter 9, 2022 | Taylor & Francis, CRC Press  DOI.10.1201/9781003156291-9 | 18 April 2022 | International |

Average Impact Factor of publications from the centre

1. Patents (if any) (latest first)
   1. Granted
   2. Filed
2. **Details of PhD awarded during 2022** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No | Candidate | Supervisor | Title | Subject | Date of  award |
|  |  |  |  |  |  |

1. **Details of PhD Registration for 2022 (New)** (**latest first**)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. | Candidate | Supervis | Title | Subject | Date of | Part | Nature |
| No |  | or |  |  | Registration | time/ | of |
|  |  |  |  |  |  | Full | fellows |
|  |  |  |  |  |  | time | hip |
| 1 | Kaladharan.P.V | Dr Sreedevi E P | ANALYSIS OF CURE RATE DATA USING DIFFERENT LIFETIME MODELS | Statistics | 03-08-2022 | Part-time | Nil |
| 2 | Ms. Vijayalakshmi S | Nicy Sebastian | MULTIVARIATE ROBUST CONTROL CHARTS FOR LOCATION  AND DISPERSION | Statistics | U.O.No. 15412/2022/Admn dtd. 10.08.2022 | Full  time | NA |
| 3 | Ms.Flowery Francis | Dr. Sajesh T A | Rayleigh Distribution and its Applications | Statistics | 25-07-2022 | Part time | NIL |
| 4 | Ann Sania | Dr V M Chacko | ON RELIABILITY ANALYSIS OF BINARY AND MULTISTATE SYSTEMS WITH APPLICATIONS TO MAINTENANCE AND REPLACEMENT POLICIES | Statistics | 04-04-2022 | Full-time | Nil |
| 5 | Amrutha M | Dr V M Chacko | MODELLING AND ANALYSIS OF RELIABILITY DATA  USING VARIOUS FAILURE RATE MODELS | Statistics | Applied | Full time | nil |
| 6 | Divya A | Dr Thomas Mathew | STATISTICAL MODELLING AND ANALYSIS OF INFLATED  COUNT DATA | Statistics | Applied | Part time | nil |

1. **New Research Projects sanctioned during 2022** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
| 1 | Nicy Sebastian | Topp-Leone generated q−exponential quantile function and a reliability test plan associated with it | SANTHOME RESEARCH (SEED MONEY) PROJECT | F.No.STC/SANTHOME/SEEDMONEY/2020-21/09. Dtd 01-02-2021 | 25000/- |

1. **Ongoing Research Projects 2022** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
|  |  |  |  |  |  |

1. **Research Projects submitted during 2022** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
| 1 | Sreedevi E P | Statistical analysis of time to event data under censoring and truncation | KSCSTE | No. KSCSTE/434/2018-KSYSA-RG | 16,82,000/- |

H Details of Seminar/Workshops attended during 2022 (latest first)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Name | Title of the event | Organizer &  venue | International/  National | Period |
| 1 | Nicy Sebastian | SANTHOME DARSHAN: Annual Academic Strategic Planning programme | IQAC, St Thomas College, Thrissur | National | 3 days |
| 2 | Nicy Sebastian | 16thNATIONAL STATISTICS DAY CELEBRATIONS | Dept of Statistics , St Thomas College, Thrissur | National | 1day |
| 3 | Nicy Sebastian | National Seminar on interdisciplinary research approaches | Dept of Statistics , St Thomas College, Thrissur | National | 2days |
| 4 | V M Chacko | National Seminar on “Interdisciplinary Research Approaches” & Research Scholar’s Meet 2022 | Research Council, St.Thomas College(Autonomous), Thrissur | National | 18-19 Feb 2022 |

I. Extension activities (Session chaired/invited lectures, services, etc.) of the Faculty during 2022 (latest first)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Name | Title of the event | Organizer & venue | International/  National | Date |
| 1 | V M Chacko | On new joint importance measures for multistate systems,  24th Annual (WEB) Conference of the Society of Statistics, Computer and Applications (SSCA), Recent Advances in Statistical Theory and Applications | Society of Statistics, Computer and Applications (SSCA), | International | 23-27 Feb 2022 |

**Part II**

1. **Details of Seminar/Workshops organized by the Centre (latest first)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No | Title of the event | Co-ordinator | Organizer/sponsor & venue | International/  National | Duration |
| 1 | Webinar on Research Methodology, 24-25 Feb 2022, Dept. of Statistics, St.Thomas College(Autonomus), Thrissur | Dr T A Sajesh | IQAC, St.Thomas College(Autonomous), Thrissur | National | Two days |
|  | Lecture Series in Statistics and its Applications- Linear Algebra | Nicy Sebastian | Dept of Statistics , St Thomas College, Thrissur | National | 22-23 November 2022 |

1. **Special achievements/awards, if any**

**Sd/-**

**Name & Designation of the**

**Head of the Research Centre**

University of Calicut

PROFORMA - ANNUAL REPORT 2022 [Research]

(From January 01, 2022 onwards) Name of Research Centre : Department of Economics

Address : St. Thomas College Autonomous ,Thrissur

E-mail ID &Contact No. :+914872420435, sabustc9@gmail.com

Part I \*

DETAILS OF RESEARCH SUPERVISORS

1. **Name &Designation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl.  No | Name of Research  Supervisor | Designation | Research  domain | Subject (**if more**  **than 1, specify**) |
| 1 | Dr. Sabu P J | Assistant Professor | Economics of Education |  |

1. **Details of Publications during 2022**(**latest first**)
2. **Publications in International Journals during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No | Author(s) | Title | Journal & year, Volume,  pages | Publisher, Date of Publication with  **doi** | Impact Factor, if  any |
|  |  |  |  |  |  |

1. **Publications in National Journals during 2022**(**latest first**)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl. No | Author(s) in order | Title | Journal & year, Volume, pages | Publisher, Date of Publication,  (**doi**, ifany) | ISSN &  Indexed by | Impact Factor, if any |
|  |  |  |  |  |  |  |

1. **Book(s) authored/Edited Volumes/Chapters during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Author(s) in  order | Title | Publisher,  Volume, pages | Date of  Publication | International/  National |
|  |  |  |  |  |  |

1. Average Impact Factor of publications from thecentre
2. Patents (if any) (latest first)
   1. Granted
   2. Filed
3. **Details of PhD awarded during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No | Candidate | Supervisor | Title | Subject | Date of  award |
| 1 | Jeena P M | Dr. Sabu P J | Economics of school education in kerala | Economics |  |
| 2 | Sajeesh P A | Dr. Sabu P J | Impact of organic farming in Kerala: A micro level analysis | Economics |  |

1. **Details of PhD Registration for 2022 (New)** (**latest first**)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. | Candidate | Supervis | Title | Subject | Date of | Part | Nature |
| No |  | or |  |  | Registration | time/ | of |
|  |  |  |  |  |  |  | fellows |
|  |  |  |  |  |  |  | hip |
| 1 | Parvathy G | Dr. Sabu P J | Eduprenures in Kerala : A Soci- Economic Analysis25/03/22 | Economics | 25/03/2022 | Full time |  |
| 2 | Revathy C R |  | Divorces in Kerala : A socio economic analysis  01/04/22 | Economics | 01/04/2022 | full time |  |
|  |  |  |  |  |  |  |  |

1. **New Research Projects sanctioned during 2021** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
|  |  |  |  |  |  |

1. **Ongoing Research Projects 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
|  |  |  |  |  |  |

1. **Research Projects submitted during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

H Details of Seminar/Workshops attended during 2022(latest first)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Name | Title of the event | Organizer &  venue | International/  National | Period |
|  |  |  |  |  |  |

I. Extension activities (Session chaired/invited lectures, services,etc.) of the Faculty during 2021 (latest first)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Name | Title of the event | Organizer & venue | International/  National | Date |
| 1 |  |  |  |  |  |

**Part II**

1. **Details of Seminar/Workshops organized by the Centre (latest first)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No | Title of the event | Co-ordinator | Organizer/sponsor & venue | International/  National | Duration |
|  |  |  |  |  |  |

1. **Special achievements/awards, if any**

**Sd/-**

**Name & Designation of the**

**Head of the Research Centre**

University of Calicut

PROFORMA - ANNUAL REPORT 2022 [Research]

(From January 01, 2022 onwards)

Name of Research Centre : Research & Postgraduate Department of Zoology

Address : St. Thomas' College (Autonomous), Thrissur- 680 001

E-mail ID & Contact No. : [drcfbinoy@gmail.com](mailto:drcfbinoy@gmail.com), 0487- 22420435, EXT- 1019

Part I \*

DETAILS OF RESEARCH SUPERVISORS

1. **Name & Designation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl.  No | Name of Research  Supervisor | Designation | Research  domain | Subject (**if more**  **than 1, specify**) |
| 1 | Dr. Francy K. Kakkassery | Associate Professor (Retd) | Zoology | Entomology |
| 2 | Dr. C F Binoy | Associate Professor and HOD | Zoology | Forest Ecology |
| 3 | Dr. Vimala K John | Assistant Professor | Zoology | Toxicology, Biochemistry  Physiology |
| 4 | Dr. Joyce Jose | Assistant Professor | Zoology | Herpetology, Ecology,  Applications of Biostatistics |

1. **Details of Publications during 2022** (**latest first**)
2. **Publications in International Journals during 2022** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No | Author(s) | Title | Journal & year, Volume,  pages | Publisher, Date of Publication with  **Doi** | Impact Factor, if  any |
| 1. | K, Vinaya and Binoy, C F | “Foraging activity and breeding system of *Avicennia officinalis* L. (Avicenniaceae) in Kerala, India" | Journal of Threatened Taxa (Accepted for latest issue) | Zoo Outreach Organization (Accepted for latest issue) | 0.241 |
| 2. | Usha AU, Thomas Sobczyk, Roby TJ, **Joyce Jose\*** | *Eumasia thomasii* sp. nov. a new species of the subfamily Eumasiinae (Lepidoptera: Psychidae) from India. | Zootaxa. 2022. 5200 (3) 232–246 | Magnolia Press, published on 28/10/2022  <https://doi.org/10.11646/zootaxa.5200.3.2> | 1.091 |
| 3 | Surendran Arunnya and Binoy C.F. | Morphological Identification and DNA Barcoding of the Tropical Bed *Bug*  *Cimex hemipterus* Fabricius (Hemiptera: Cimicidae) from Thrissur, Kerala,  India | International Journal of Zoological investigations,2022,  Vol 8(2), 560-567 | Saran Publications, Gorakhpur, India,  19th october 2022  **https://doi.org/10.33745/ijzi.2022.v08i02.070** |  |
| 4. | Usha AU, Thomas Sobczyk, Roby TJ, **Joyce Jose\*** | Threat assessment of *Manatha albipes* Moore (Lepidoptera: Psychidae) from Kerala, India using GIS with comments on its taxonomy, biology, distribution, and host plants. | International Journal of Tropical Insect Science. 2022. 42, 3133–3141 | AAIS  <https://doi.org/10.1007/s42690-022-00858-8>  published on 12/Aug/2022 | 1.157 |
| 5. | Josna Victoria K Johnson and John Vimala K | Biodegradation of synthetic pyrethroid insecticide Deltamethrine by Stenotrophomonas maltophilia strain DRNB1 | International Journal of Zoological Investigations, 2022, 8(2) , 211- 217 | Saran publications  https://doi.org/10.33745/ijzi.2022.v08i02.027  08-08-2022 |  |
| 6. | Parvathy C. A., Vimala K John And Meharban M. P. | Evaluation of Water Quality in Thrissur – Malappuram Kole Wetlands of Kerala using Water Quality Indexing | International Journal of Zoological Investigations, 2022, 8(2) , 171- 178 | Saran publications  https://doi.org/10.33745/ijzi.2022.v08i02.022  05-08-2022 |  |
| 7. | Kavitha P.A., John Vimala K and Johnson Josna Victoria K | Biochemical identification of bacteria from the selected edible marine fishes available in Thrissur, India | International Journal of Zoological Investigations, 2022, 8(2) , 29 - 33 | Saran publications  https://doi.org/10.33745/ijzi.2022.v08i02.005  12-07-2022 |  |
| 8. | Usha A U, Thomas Sobczyk, Roby T J & **Joyce Jose\*** | Neotype designation, redescription, biology, and distribution of *Acanthopsyche alstoni* Watt & Mann, 1903 (Lepidoptera: Psychidae) from India. | Zootaxa .2022.5159 (1) 136–144 | Magnolia Press  <https://doi.org/10.11646/zootaxa.5159.1.7>  *published: 28 Jun. 2022* | 1.091 |
| 9. | Neethu MU and **Joyce Jose\*** | . *CNEMASPIS LITTORALIS* (Coastal Day Gecko). DIET and FEEDING BEHAVIOR. | Herpetological Review. 2022. 53. 320-321 | Society for the study of Amphibians and Reptiles | 0.28 |
| 10. | Anupriya A K, Owen Seeman, **Joyce Jose\***  **\***Corresponding author | Serendipitous discovery of mites in the eye cavity of Asota caricae Fabricius, 1775 (Lepidoptera: Erebidae) | Journal of Natural Science Collections (2022) 10: 81 – 85 | Natural Science Collections Organization, Royal Horticultural Society, Surrey, UK |  |

1. **Publications in National Journals during 2022** (**latest first**)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl. No | Author(s) in order | Title | Journal & year, Volume, pages | Publisher, Date of Publication,  (**doi**, if any) | ISSN &  Indexed by | Impact Factor, if any |
| 1 | Anila K and **Francy K Kakkassery** | Physico-chemical properties of pit soil of antlion larvae (Genus Myrmeleon sp.) with special reference to its population density | International Journal of Entomology Research, Volume 7, Issue 1  , 81-85. | Published: 20-01-2022 | ISSN: 2455-4758 |  |
| 2 | Anila Krishnan, **Francy K Kakkassery**, Joyce Jose | Feeding behaviour of pit building antlion Myrmeleon pseudohyalinus, Holzel 1972 (Neuroptera: Myrmeleontidae) in different mediums, instars, and hunger levels | Entomon (2022), 47, 34-40 | Association for Advancement of Entomology, 0377-9335 |  | **0.299** |
| 3 | Anila Krishnan, Francy K Kakkassery, **Joyce Jose** | Feeding behaviour of pit building antlion Myrmeleon pseudohyalinus, Holzel 1972 (Neuroptera: Myrmeleontidae) in different mediums, instars and hunger levels | Entomon (2022), 47, 34-40 | Association for Advancement of Entomology, 0377-9335 |  | **0.299** |

1. **Book(s) authored/Edited Volumes/Chapters during 2022 (latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Author(s) in  order | Title | Publisher,  Volume, pages | Date of  Publication | International/  National |
| 1. | Vimala K John | Chapter 3- strengthening the immune system and reducing inflammation and oxidative stress through the diet and nutrition: considerations during covid – 19 crises (Frontiers in biological Science) | Notion Press, 49-67 | 09-03-2022 | National |

1. Average Impact Factor of publications from the centre
2. Patents (if any) (latest first)
   1. Granted
   2. Filed
3. **Details of PhD awarded during 2022** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No | Candidate | Supervisor | Title | Subject | Date of  award |
| 1 | Anila. K | Dr. Francy K. Kakkassery | Studies On The Ecology And Behaviour Patterns Of Antlion Larvae (Family:Myrmeleonidae,Order:Neuroptera) Of Selected Habitats Of Kerala | Zoology | 09/02/2022 |

1. **Details of PhD Registration for 2022 (New)** (**latest first**)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. | Candidate | Supervisor | Title | Subject | Date of | Part | Nature |
| No |  |  |  |  | Registration | time/ | of |
|  |  |  |  |  |  | Full | fellows |
|  |  |  |  |  |  | time | hip |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

1. **New Research Projects sanctioned during 2021** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
|  |  |  |  |  |  |

1. **Ongoing Research Projects 2022** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
|  |  |  |  |  |  |

1. **Research Projects submitted during 2022** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

H Details of Seminar/Workshops attended during 2022 (latest first)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Name | Title of the event | Organizer &  venue | International/  National | Period |
| 1 | Dr. Joyce Jose | The Peerless Planet in Peril | SVKM, Mumbai, Online | National | 28-07-2022 |
| 2 | Dr. Joyce Jose | National Moth Week | National Moth Week (NGO) | International | 23-07-2022  (1 week) |

I. Extension activities (Session chaired/invited lectures, services, etc.) of the Faculty during 2022 (latest first)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Name | Title of the event | Organizer & venue | International/  National | Date |
| 1 | Dr. Joyce Jose | Workshop on Ecological Footprints | St. Joseph’s College, Irinjalakuda | State | 29/10/2022 |
| 2 | Dr. Joyce Jose | Awareness Programme on IPR | IPR Cell, IIC and IQAC, Carmel College , Mala | State | 27/08/2022 |
| 3 | Dr. Joyce Jose | A Primer to biodiversity conservation through Myristica Swamp case studies (Translation in English) | School of Environment, Malayalam University | University | 06/06/2022 |
| 4 | Dr. Joyce Jose | Undergraduate Research: An Overview for Zoology Students | Christian College, Chengannur & MM NSS College, Kottiyam  Online | State | 16/02/2022 |
| 5. | Dr. Vimala K John | Invited Lecture  Mother and child nutrition | Govt. Tribal School, Echipara | National | 30/09/2022 |
| 6 | Dr. Vimala K John | Programme organized  Kung – Fu Training Programme | St. Thomas’ College, Thrissur | National | 17/10/2022 |
| 7 | Dr. Vimala K John | National Unity Day celebration | St. Thomas’ College, Thrissur | National | 2022 |
| 8 | Dr C F Binoy | Invited Talk on Butterfly Conservation and Butterfly Garden | Prajyoti Niketan College, Pudukkad | State | 07/12/2021 |

**Part II**

1. **Details of Seminar/Workshops organized by the Centre (latest first)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No | Title of the event | Co-ordinator | Organizer/sponsor & venue | International/  National | Duration |
| 1. | Ozone Conservation –Current Trends | Dr. C F Binoy | Research & PG Dept. of Zoology, St. Thomas College, Thrissur | National | 1 day |

1. **Special achievements/awards, if any**

**Sd/-**

**Name & Designation of the**

**Head of the Research Centre**

University of Calicut

PROFORMA - ANNUAL REPORT 2022 [Research]

(From January 01, 2022 onwards) Name of Research Centre : Chemistry

Address : St. Thomas College (Autonomous), College, Thrissur

E-mail ID &Contact No. : [paulson.org@gmail.com](mailto:paulson.org@gmail.com), 9961634256

Part I \*

DETAILS OF RESEARCH SUPERVISORS

1. **Name &Designation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl.  No | Name of Research  Supervisor | Designation | Research  domain | Subject (**if more**  **than 1, specify**) |
| 1 | Paulson Mathew | Professor | Green Chemistry, Catalysis | Chemistry |
| 2 | Sunil Jose T | Assistant Professor | Polymer Composites  Nanotechnology | Chemistry |
| 3 | Jency Thomas | Asst. Prof. | Polyoxometalates  Supra molecular chemistry | Chemistry |
| 4 | Joseph Joly V L | Asst. Prof. | Materials Chemistry | Chemistry |
| 5 | Dr. Jinish Antony M | Asst. Professor | Polymer Nanomaterials | Chemistry |

1. **Details of Publications during 2022**(**latest first**)
2. **Publications in International Journals during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No | Author(s) | Title | Journal & year, Volume,  pages | Publisher, Date of Publication with**doi** | Impact Factor, if  any |
| 1 | Anju Rose Puthukkara P , Sunil Jose T \*  , DinoopLal S | Green synthesis of iron nanoparticles for malachite green removal | Materials Today Communications, 33 (2022) 104759 | Elsevier, 23 Oct 2022  https://doi.org/10.1016/j.mtcomm.2022.104759 | **3.662** |
| 2 | MemsyChiriamkandathKuriakose, Jisha Joseph, GlintaMandumpalJoyson&Jency Thomas | Self-assembly of Hybrid Solids {Hpz}2[H7CrMo6O24]·6H2O and [Co(2-Hampz)2Cl4] (pz = pyrazole, 2-ampz = 2-aminopyrazine) from Aqueous Solution | In press | <https://doi.org/10.1007/s10870-022-00964-y> | **0.582** |
| 3 | Rohini Das K and Jinish Antony M\* | Microscale Redox Titrations Using Poly-*N*-phenyl Anthranilic Acid Fluorescent Turn-Off Indicator for Undergraduate Analytical Chemistry Lab | *J. Chem. Educ.* 2022, 99, 2, 892–901 | https://doi.org/10.1021/acs.jchemed.0c01354 | **3.208** |
| 4 | Reeja Johnson  Joby Thomas , K. Ragi and M. P. Bins | Screening of Two Sulphur-Containing Schiff’s Bases Corrosion Inhibition Properties on CS: Gravimetric, Electrochemical and Quantum Chemical Studies | PortugaliaeElectrochimicaActa | https://doi.org/10.4152/pea.202240040 | **1.483** |
| 5 | Paulson Mathew and Siji TB | Microwave assisted synthesis of functionalized 2*H*-chromene-2-thiones and 1,2-dithiole-3-thiones from β-oxodithioesters: Characterization, in vitro cytotoxicity and in silico docking studies | Journal of Molecular Structure | 10.1016/j.molstruc.2021.132071 | **3.841** |
|  |  |  |  |  |  |

1. **Publications in National Journals during 2022**(**latest first**)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl. No | Author(s) in order | Title | Journal & year, Volume, pages | Publisher, Date of Publication,  (**doi**, ifany) | ISSN &  Indexed by | Impact Factor, if any |
|  |  |  |  |  |  |  |

1. **Book(s) authored/Edited Volumes/Chapters during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Author(s) in  order | Title | Publisher,  Volume, pages | Date of  Publication | International/  National |
|  |  |  |  |  |  |

1. Average Impact Factor of publications from thecentre
2. Patents (if any) (latest first)
   1. Granted

Indian Patent No:388061, granted on 31/01/2022 to Joseph Joly V L

1. **Details of PhD awarded during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No | Candidate | Supervisor | Title | Subject | Date of  award |
| 1 | SavithaUnnikrishnan K | Dr, Sunil Jose T | Bismaleimidenanocompositesfo high dielectric applications | Chemistry | 19-09-2022 |
| 2 | Anju Rose Puthuukkara P | Dr. Sunil Jose T | Modified iron based nanoparticles for the removal of dyes and hexavalent chromium from water | Chemistry | 19-09-2022 |

1. **Details of PhD Registration for 2022 (New)** (**latest first**)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. | Candidate | Supervis | Title | Subject | Date of | Part | Nature |
| No |  | Or |  |  | Registration | time/ | of |
|  |  |  |  |  |  | Full | fellows |
|  |  |  |  |  |  | time | hip |
| 1 | Rijoy K.J. | Dr. Sunil Jose T | Photocatalytic, adsorptive and reactive elimination of insecticides and antibiotics from water using polymer nanocomposites | Chemistry | 30-09-2022 | Part time | Nil |
|  |  |  |  |  |  |  |  |

1. **New Research Projects sanctioned during 2022** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
| 1 | Joseph Joly V L | A Simple Synthetic Route to Nanostructured Graphene-Metal Oxide Hybrid Electrode Materials | SERB | TAR/2021/000184 | Rs.18,30,000/- |

1. **Ongoing Research Projects 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
| 1 | Joseph Joly V L | A Simple Synthetic Route to Nanostructured Graphene-Metal Oxide Hybrid Electrode Materials | SERB | TAR/2021/000184 | Rs.18,30,000/- |

1. **Research Projects submitted during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |

H Details of Seminar/Workshops attended during 2022(latest first)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Name | Title of the event | Organizer &  venue | International/  National | Period |
|  | Jency Thomas | International Lecture Series on Studies in Dissent & Protest | jointly organized by The Kerala State Higher Education Council and Dean of Studies St Thomas College, Thrissur | International | 10,17,20 May 2022 |

I. Extension activities (Session chaired/invited lectures, services,etc.) of the Faculty during 2022(latest first)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Name | Title of the event | Organizer & venue | International/  National | Date |
| 1 |  |  |  |  |  |

**Part II**

1. **Details of Seminar/Workshops organized by the Centre (latest first)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No | Title of the event | Co-ordinator | Organizer/sponsor & venue | International/  National | Duration |
|  |  |  |  |  |  |

1. **Special achievements/awards, if any**

**Sd/-**

**Name & Designation of the**

**Head of the Research Centre**

University of Calicut

PROFORMA - ANNUAL REPORT 2022 [Research]

(From January 01, 2022 onwards)

Name of Research Centre :Department Of Physics,

St. Thomas’ College (Autonomous) Thrissur

Address :St. Thomas’ College (Autonomous) Thrissur, Kerala -680001

E-mail ID &Contact No. : [joekiz83@gmail.com](mailto:joekiz83@gmail.com), 9495355673

Part I \*

DETAILS OF RESEARCH SUPERVISORS

1. **Name &Designation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl.  No | Name of Research  Supervisor | Designation | Research  domain | Subject (**if more**  **than 1, specify**) |
| 1 | Dr.Vimalkumar.T.V | Assistant Professor | Physics | Material Science& Photovoltaic |
| 2 | Dr. Johns Naduvath | Assistant Professor | Physics | Material Science |
| 3 | Dr. Ann Mary K A | Assistant Professor | Physics | Material Science& Nanotechnology |
| 4 | Dr.AntoJohny T | Associate Professor | Physics | Material Science |
| 5 | Dr.Nees Paul | Assistant Professor | Physics | Electromagnetism |
| 6 | Dr.JoeKizhakooden | Assistant Professor | Physics | Electromagnetism |

1. **Details of Publications during 2022**(**latest first**)
2. **Publications in International Journals during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No | Author(s) | Title | Journal & year, Volume,  pages | Publisher, Date of Publication with  **doi** | Impact Factor, if  any |
| 1 | HibaRahman, AleenaNorbert, Priya S. Nair, Julie Ann Joseph, SadasivanShaji, UdayDeshpande, Johns Naduvath, Shanu A. S, Rachel Reena Philip | Influence of sodium doping on the material properties and photocatalytic  activity of anatase titanium dioxide nanotubes prepared by anodization | Optical Materials 134 (2022) 113172 | Optical Materials 134 (2022) 113172 | 3.08 |
| 2 | AR Athira, TomyMerin, K Anupama, KA Ann Mary, TS Xavier | [Surfactant incorporated polyaniline/Co3O4/rGO ternary hybrid composite symmetric supercapacitors for efficient energy storage applications](https://www.sciencedirect.com/science/article/pii/S0925963522006574) | Diamond and Related Materials,  2022, [Volume 130](https://www.sciencedirect.com/journal/diamond-and-related-materials/vol/130/suppl/C), 109475, | Elsevier, 2022/10/19,  [doi.org/10.1016/j.diamond.2022.109475](https://doi.org/10.1016/j.diamond.2022.109475) | 3.806 |
| 3 | K kjasmi, T AntoJohny, V S Siril, V Kumar and  K N Madhusoodanan | Influence of defect chemistry on NO2 gas sensing of Li-ZnO thin films | Bull. Mater. Sci. (2022)  45:203 | Springer, <https://doi.org/10.1007/s12034-022-02798-y> | 1.87 |
| 4 | K KJasmi , T AntoJohny, V S Siril, K N Madhusoodanan | A comparative study of Cu/Ni:ZnO thin-film sensor for NO2 gas sensing applications | Materials Today: Proceedings  https://www.sciencedirect.com/journal/materials-today-proceedings/vol/65/part/P8 | Elsevier, https://doi.org/10.1016/j.matpr.2022.06.172 | 1.46 |

1. **Publications in National Journals during 2022**(**latest first**)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl. No | Author(s) in order | Title | Journal & year, Volume, pages | Publisher, Date of Publication,  (**doi**, ifany) | ISSN &  Indexed by | Impact Factor, if any |
|  |  |  |  |  |  |  |

1. **Book(s) authored/Edited Volumes/Chapters during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Author(s) in  order | Title | Publisher,  Volume, pages | Date of  Publication | International/  National |
|  |  |  |  |  |  |

1. Average Impact Factor of publications from thecentre
2. Patents (if any) (latest first)
   1. Granted
   2. Filed
3. **Details of PhD awarded during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No | Candidate | Supervisor | Title | Subject | Date of  award |
|  |  |  |  |  |  |

1. **Details of PhD Registration for 2022 (New)** (**latest first**)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. | Candidate | Supervis | Title | Subject | Date of | Part | Nature |
| No |  | or |  |  | Registration | time/ | of |
|  |  |  |  |  |  | Full | fellows |
|  |  |  |  |  |  | time | hip |
| 1 | Manjusha Rose Jose | Dr. Ann Mary K A | Natural dyes/ dye derived carbon nano structures for optical and biomedical applications | Physics | 27-09-2022 | Full Time | NIL |
|  |  |  |  |  |  |  |  |

1. **New Research Projects sanctioned during 2021** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
| 1 | Dr. Ann Mary K A | DST-FIST | Department of Science & Technology, Govt. of India | SR/FST/COLLEGE-/2020/861 | 75.0 Lakh |

1. **Ongoing Research Projects 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
|  |  |  |  |  |  |

1. **Research Projects submitted during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

H Details of Seminar/Workshops attended during 2022(latest first)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Name | Title of the event | Organizer &  venue | International/  National | Period |
| 1 | Dr.JohnsNaduvath | Refresher Course in Material Science | Calicut University | National | 17.06.22 to 30.06.2022 |
| 2 | Dr. Ann Mary K A | ICMPMA-2022 | Research & Postgraduate Department of Physics, Fatima Mata National College (Autonomous), Kerala, India | International | 9/5/2022-13/5/2022 |
| 3 | Dr. Ann Mary K A | NCETMS-2022 | Department of Physics, St. Dominic’s College, Kanjirapally, Parathodu P O, Kottayam, Kerala, India | National | 6/6/2022 – 7/06/2022 |

I. Extension activities (Session chaired/invited lectures, services,etc.) of the Faculty during 2022(latest first)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Name | Title of the event | Organizer & venue | International/  National | Date |
| 1 | Dr.Vimalkumar T V | Senzatisaon Program for School Teachers | Energy Management Centre ,Govt of Kerala  Little Flower School Irinjalakuda | District Level | 27 /10/22 |
| 2 | Dr.Vimalkumar T V | Senzatisaon Program for School Teachers | Energy Management Centre ,Govt of Kerala  Badhani School ,Kunnamkulam | District Level | 28/10/22 |
| 3 | Dr.Vimalkumar T V | Senzatisaon Program for School Teachers | Energy Management Centre ,Govt of Kerala  Govt.Girls HS ,Thrissur | District Level | 31/10/22 |
| 4 | Dr.Vimalkumar T V | Faculty Development Program | St.Thomas College ,Thrissur | National Level | 29-06-22 to 01-07-22 |
| 5 | Dr.JohnsNaduvath | Workshop on Material Characterization Techniques | Union Christian College, Aluva | National Level | 25-03-22 |
| 6 | Dr. Nees Paul | IP awareness /training program | National IP awareness Mission, Government of India | National | August 26, 2022 |
| 7 | Dr. Nees Paul | Raman optronics webinar series-2022 | Raman international optronic society | International | November14-16,2022 |

**Part II**

1. **Details of Seminar/Workshops organized by the Centre (latest first)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No | Title of the event | Co-ordinator | Organizer/sponsor & venue | International/  National | Duration |
|  |  |  |  |  |  |

1. **Special achievements/awards, if any**

**Sd/-**

**Name & Designation of the**

**Head of the Research Centre**

University of Calicut

PROFORMA - ANNUAL REPORT 2022 [Research]

(From January 01, 2022 onwards)

Name of Research Centre : St. Thomas College (Autonomous), Thrissur-680 001

Address :Research &PG Department of Botany

E-mail ID &ContactNo. : vjptcr@gmail.com, +91 487 2420435

Part I \*

DETAILS OF RESEARCH SUPERVISORS

1. **Name &Designation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl.  No | Name of Research  Supervisor | Designation | Research  domain | Subject (**if more**  **than 1, specify**) |
| 1 | Dr. Anto P. V | Assistant Professor | Botany | Taxonomy, Mycology,  Ecology  Pteridology,  Biochemistry,  Microbiology,  Phycology |
| 2. | Dr. Vimala Jose | Assistant Professor | Botany | Bio-nanotechnology,  Microbiology |
| 3. | Dr. Joby Paul | Assistant Professor | Botany | Ecology,  Plant Taxonomy |
| 4. | Dr.Meena K Cheruvathur | Assistant Professor | Botany | Plant biotechnology,  Tissue Culture,  Taxonomy  Microbiology |
| 5. | Dr.Silvy Mathew | Assistant Professor | Botany | Phytochemistry, Nanotechnology &Plant Tissue Culture,  Molecular Syatematics |

1. **Details of Publications during 2022**(**latest first**)
2. **Publications in International Journals during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No | Author(s) | Title | Journal & year, Volume,  pages | Publisher, Date of Publication with  **doi** | Impact Factor, if  any |
|  |  |  |  |  |  |
| 1. | Anu Abhimannue, Dr.Meena k Cheruvathur, Sreenivasan, S | Biofilm inhibition potential of aqueous leaf extract of *Saracaasoka* Linn. against *Pseudomonas aeruginosa,* | Journal of Advanced Scientific research,Vol.13 No.02, 60-66 ,2022, | Taylor& Francis Group,31/03/2022  https://doi.org/10.55218/JASR.202213209 |  |
| 2. | Dhanya Jose, Ignatius Antony, Anto P. V, Tessy Paul | [Taxonomy and distribution of Desmids in Karapuzha Dam, Western Ghats Kerala](https://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=Z3PcaXoAAAAJ&citation_for_view=Z3PcaXoAAAAJ:4TOpqqG69KYC) | Feddes Repertorium, 2022, 133: 1-14 | Wiley Online Library,  22/02/2022  <https://doi.org/10.1002/fedr.202100034> |  |

1. **Publications in National Journals during 2022**(**latest first**)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl. No | Author(s) in order | Title | Journal & year, Volume, pages | Publisher, Date of Publication,  (**doi**, ifany) | ISSN &  Indexed by | Impact Factor, if any |
| 1. | Smitha P. S & Anto P.V | *Syzygiumtravencoricum* Gamble, an endangered endemic species of southern western Ghats | [Species the Passion 7: Proceedings of the National Seminar](https://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=Z3PcaXoAAAAJ&citation_for_view=Z3PcaXoAAAAJ:mVmsd5A6BfQC), Pg: 7 - 18 | Publications Divisions, St. Thomas College (Autonomous), Thrissur, 2022 | ISBN: 978-93-91691-01-1 |  |
| 2. | Jithin K. V, Anto P. V & Ignatius Antony | Taxonomy and distribution of Genus *Hydanocarpus*Gaertn. (Flacourtiaceae) in Kerala | Pg: 66-71 | Publications Divisions, St. Thomas College (Autonomous), Thrissur, 2022 | ISBN: 978-93-91691-01-1 |  |
| 3. | Dhanya Jose, Anto P. V & Ignatius Antony | Phytoplankton assessment of Heart Lake, Western Ghats, Kerala | Pg: 72-77 | Publications Divisions, St. Thomas College (Autonomous), Thrissur, 2022 | ISBN: 978-93-91691-01-1 |  |
| 4. | Seena K.K, Anto P. V & Ignatius Antony | Taxonomy and distribution of Euglenoids in Kalpathy River, Palakkad | Pg: 78-87 | Publications Divisions, St. Thomas College (Autonomous), Thrissur, 2022 | ISBN: 978-93-91691-01-1 |  |
| 5. | Reshma Ashok, Anto P. V & Ignatius Antony | Floral biology and Phenology of *Impatienaviolacea* (Balsaminaceae), an endemic Balsam of Western Ghats | Pg: 88-90 | Publications Divisions, St. Thomas College (Autonomous), Thrissur, 2022 | ISBN: 978-93-91691-01-1 |  |
| 6. | Afsana Khan, Anto P. V & Ignatius Antony | Genus *Ophioglossum* from Thrissur district,Kerala | Pg: 91-95 | Publications Divisions, St. Thomas College (Autonomous), Thrissur, 2022 | ISBN: 978-93-91691-01-1 |  |
| 7. | Keerthana Nandakumar, Anto P. V & Ignatius Antony | A Preliminary study on soil fungi of Iringole Sacred grove | Pg: 107-113 | Publications Divisions, St. Thomas College (Autonomous), Thrissur, 2022 | ISBN: 978-93-91691-01-1 |  |
| 8. | Nimmi C Dominigose& Anto P.V | Distribution and Morphology of two species of *Parthenocissus* of Kerala | Pg: 124-126 | Publications Divisions, St. Thomas College (Autonomous), Thrissur, 2022 | ISBN: 978-93-91691-01-1 |  |

1. **Book(s) authored/Edited Volumes/Chapters during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Author(s) in  order | Title | Publisher,  Volume, pages | Date of  Publication | International/  National |
|  | Dr. Anto P. V, Afsana Khan, Keerthana Nandakumar, Reshma Ashok, Nimmi C Dominigose | [Species the Passion 7: Proceedings of the National Seminar](https://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=Z3PcaXoAAAAJ&citation_for_view=Z3PcaXoAAAAJ:mVmsd5A6BfQC) | Publications Divisions, St. Thomas College (Autonomous), Thrissur | 2022 | National |
|  | BlessySanthosh,  Dr. Meena KCheruvathur,  Dr.Joby Paul | Isolation and characterization of potassium solubilizing bacteria and its effects on *Cucumis sativus* (L). | Krishnammal College for omen,Coimbatore | 2022 | International |
|  | Blessy Santhosh,  Dr.Meena K Cheruvathur,  Dr.Joby Paul | Cost reductive approach in crop management of *Vigna unguiculata* (L). Walp. by incubation with Potassium solubilizing rhizosphere bacteria. | Bishop Heber College, Thiruchirappalli, Tamilnadu, India | 2022 |  |
|  | Reshma Rajan,  Dr.Silvy Mathew,  Dr.Vimala Jose | Microwave Assisted Synthesis of Silver Nanoparticles from Sarcostigmakleinii Wight & Arn. Leaves and Assessment of their Antibacterial Activity against Pathogenic Bacteria | International Virtual Conference on Evolving Paradigms in Biotechnology (ICEPB): Combating Contemporary Challenges: Proceedings and Abstracts of Papers, Page No.7, Kristu Jayanti College, Autonomous | 2022 | International |
|  | Hridhya M V,  Dr.Vimala Jose | Copper oxide nanoparticles mediated photocatalytic degradation of Thiabendazole, antimycotic potential of CuONP-TBZ complex and itsIn silico docking analysis | Proceedings of the International Conference on Plant Physiology & Biochemistry, The Department of Botany Fatima Mata National College Kollam, Kerala,Page No.30 | 2022 | International |
|  | Sreeshma PS and Dr. Joby Paul | Ecological studies of Genus Bccaurea (Phyllanthaceae)in India | St. Thomas College, Thrissur | 2022 | National |

1. Average Impact Factor of publications from thecentre
2. Patents (if any) (latest first)
   1. Granted
   2. Filed
3. **Details of PhD awarded during 2022 (latest first)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. no | Candidate | Supervisor | Title | Subject | Date of  award |
| 1. | Neenu A Santhosh | Dr. Anto P. V | Beneficial aspects of selective endophytic bacteria isolated from *Morinda*L. species | Botany | 29/04/2022 |
| 2. | Aiswarya K S | Dr.Vimala Jose | Green synthesis of Silver nanoparticles using Curcuma rhizomes: characterization and applications | Botany | 06/05/2022 |
| 3. | Seena K. K | Guide – Dr. Igantius Antony  Co-guide- Dr. Anto P. V | A Comparative study on the freshwater algal community from main rivers in Palakkad district | Botany | 18/05/2022 |
| 4. | Alina K Sebastian | Dr. Anto P.V | Molecular characterization and anti-cancer activity of fungus *Sclerotium stipitatum*Berk. et. Curr. (Nilamanga) | Botany | 24/05/2022 |

1. **Details of PhD Registration for 2022 (New)** (**latest first**)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. | Candidate | Supervis | Title | Subject | Date of | Part | Nature |
| No |  | or |  |  | Registration | time/ | of |
|  |  |  |  |  |  | Full | fellows |
|  |  |  |  |  |  | time | hip |
| 1. | Divya K Venugopal | Dr.Vimala Jose | Diversity of Gamopetalae in Idukki district, Kerala | Botany | 28/05/2022 | Full time | Nill |

1. **New Research Projects sanctioned during 2021** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
| 1. | Dr.Meena K Cheruvathur | “Enhancing drought stress tolerance in plants through selective bacterial incorporation with rhizosphere soil” | KSCSTE | 00989/SPS 65/2021/KSCSTE | 10874/- |
| 2. | Dr.Silvy Mathew | Synthesis and characterization of silvernanoparticles from flowers of *Callistemon lanceolatus* and evaluation of the biological activities” | KSCSTE | 01137/SPS 65/2021/KSCSTE | 10,000/- |

1. **Ongoing Research Projects 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
|  | Nill |  |  |  |  |

1. **Research Projects submitted during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
| 1 | Dr. Anto P. V | Study of soil fungi of Iringolkavu sacred grove during the South-West Monsoon | SANTHOME SEED MONEY 2020-2021 | STC/SANTHOME/SEED MONEY/2020-21/16 | 25,000 |

H Details of Seminar/Workshops attended during 2022(latest first)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Name | Title of the event | Organizer &  venue | International /  National | Period |
| 1. | Dr.Silvy Mathew | TSCHE sponsored national seminar on Forest resources, diversity, utilization and conservation | Dept.of Botany, Gopal Rao Patil Government Degree College, Bhainsa, Telangana | National | 5/11/2022 |
| 2. | Dr.Silvy Mathew | International Seminar on emerging new world order in post pandemic scenario | St.Xaviers College, Jaipur | International | 18-19/02/2022 |

1. Extension activities (Session chaired/invited lectures, services,etc.) of the Faculty during 2021 (latest first)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Name | Title of the event | Organizer & venue | International/  National | Date |
| 1. | Dr. Anto P. V | Research methodology on plant Taxonomy | Mercy College Palakkad | National | 27/7/2022 |
| 2. | Dr. Anto P. V | Faculty Development Programme | Department of Botany, St. Thomas(Autonomous) College Thrissur | National | 29/6/2022-1/7/2022 |
| 4. | Dr. Anto P. V | Kulavetty tree sapling planting at Varavoor | Department of Botany, St. Thomas (Autonomous) College Thrissur | National | 18/2/2022 |
| 5. | Dr. Anto P. V | Interdisciplinary research approaches | Department of Botany, St. Thomas(Autonomous) College Thrissur in collaboration with Forest Department |  | 20/11/2021 |
| 6. | Dr. Anto P. V | Kulavetty tree conservation at Asurankundu dam | Department of Botany, St. Thomas(Autonomous) College Thrissur in collaboration with Forest Department |  | 6/4/2021(3 days)- 9/4/2021 |
| 7. | Dr. Anto P. V | Presiding Officer in Assembly election |  |  | 23/3/2021 |
| 8. | Dr. Anto P. V | RAC subject expert in KFRI | KFRI, Peechi, Thrissur |  | 29/1/2021 |
| 9. | Dr. Anto P. V | Fungal Herbarium deposition in NFCCI | Department of Botany, St. Thomas College, Thrissur in collaboration with Agarkar institute Pune |  | 4/1/2021 |
| 10. |  | Entrepreneurship by plantain(*Musa paradisica*) cultivation | In collaboration with Agriculture office and NREGC |  |  |
| 11. | Dr.Silvy Mathew | Invited lecture-  Innovation among School Students | Nirmala Matha Central School, Thrissur | National | 28/8/202  2 |
| 12. | Dr.Silvy Mathew | Invited lecture-  Innovation and Start- UP Ecosystem, | VIGNAN’S LARA Institute of Technology and Science, Meerut, Andra Pradesh | National | 24/8/2022 |
| 13 | Dr.Silvy Mathew | Keynote Speaker- Biosynthesis of nanoparticles: Technological concepts and future prospects, | United conference of Nanotechnology and medicine, US | International | 5/4/2021 |
| 14. | Dr. Joby Paul | Recent Advances in Plant Science | Department of Botany  NSS College, Manjeri | International | 15-10-2022 |
| 15 | Dr. Joby Paul | Wetland Biomonitoring-Odonates survey | WWF | National | 18-09-2022 |
| 16 | Dr. Joby Paul | Anthrapocece:Human invasion or sustenance | Department of Botany and Biotechnology,  Newman College, Thodupuzha | National | 06-06-2022 |
| 17. | Dr. Joby Paul | Riparian Forests of Pamba River | MES Asmabi College, Vemballur | International | 21.05.2022 |
| 18 | Dr. Joby Paul | How to identify plants | Bhoomithrasena club and Loyola College of Social sciences, Trivandrum | State | 30.03.2022 |
| 19 | Dr. Joby Paul | Popularization of Plant Taxonomy; A workshop based itinerary to document flora of the campus | Department of Botany and Biotechnology,  Newman College, Thodupuzha | National | 06-03-2022 |
| 20 | Dr. Joby Paul | River Health Management Training Programme | MSSRF | National | 26-02-2022 |
| 21. | Dr. Joby Paul | Life in Wetlands | Department of Botany,  NSS college Ottapalam | State | 02-02-2022 |

**Part II**

1. **Details of Seminar/Workshops organized by the Centre (latest first)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No | Title of the event | Co-ordinator | Organizer/sponsor & venue | International/  National | Duration |
| 1. | Hands on training on Botanical Illustrations | Dr. Joby Paul | Department of Botany | National | 05/11/2022 |
| 2. | Hortus Siccus | Dr. Joby Paul | Department of Botany | National | 10.10.2022 |
| 3. | Guruvandhanam 2022 | Dr. Anto P. V-Convener | In collaboration with OSA, webinar | National | 3/9/2022 |
| 4. | How to plan for a start-up – legal and ethical steps | Dr. Anto P. V-Convener | Department of Botany, St. Thomas(Autonomous) College Thrissur in collaboration with IIC | National | 29/08/2022 |
| 5. | Workshop on entrepreneurship practices in nursery management | Dr. Anto P. V-Convener | Department of Botany, St. Thomas(Autonomous) College Thrissur in collaboration with IIC | National | 26/08/2022 |
| 6. | World environment day celebrations | Dr. Anto P. V-Convener | Department of Botany, St. Thomas(Autonomous) College Thrissur | National | 6/6/2022 |
| 7. | Modern research methodology in new branches of science | Dr. Anto P. V-Convener | Department of Botany, St. Thomas(Autonomous) College Thrissur in collaboration with OSA | International | 23/05/2022 |
| 8. | Honouring of best academic scorers | Dr. Anto P. V-Convener | Department of Botany, St. Thomas(Autonomous) College Thrissur in collaboration with OSA | National | 07/05/2022 |
| 9. | Species the passion 7 National seminar | Dr. Anto P. V-Convener | Department of Botany, St. Thomas(Autonomous) College Thrissur | National | 9/3/2022 |
| 10. | Process of innovation development and technology readiness level commercialization of lab technology | Dr. Anto P. V- Co - ordinator | Department of Botany, St. Thomas(Autonomous) College Thrissur in collaboration with IIC, IQAC,IEDC | National | 28/02/2022 |
| 12. | Innovation: healthy competitions & challenges | Dr. Anto P. V- Co - ordinator | Department of Botany, St. Thomas(Autonomous) College Thrissur in collaboration with IIC, IQAC,IEDC | National | 28/02/2022 |
| 13. | National seminar on interdisciplinary research approaches | Dr. Anto P. V- Co - ordinator | Research council | National | 18/2/2022-19/2/2022 |

1. **Special achievements/awards, if any**

**Sd/-**

**Name & Designation of the**

**Head of the Research Centre**

University of Calicut

PROFORMA - ANNUAL REPORT 2022 [Research]

(From January 01, 2022 onwards)

Name of Research Centre : PG and Research Department of Mathematics

Address : St. Thomas College (Autonomous), Thrissur

E-mail ID & Contact No. : [maths@stthomas.ac.in](mailto:maths@stthomas.ac.in) , 0487 2420435

Part I \*

DETAILS OF RESEARCH SUPERVISORS

1. **Name &Designation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl.  No | Name of Research  Supervisor | Designation | Research  domain | Subject (**if more**  **than 1, specify**) |
| 1 | Dr. Alphonsa Mathew | Assistant Professor | Fluid Dynamics |  |
| 2. | Dr.Sr. Julie Andrews | Assistant Professor | Nano Fluids |  |
| 3. | Dr. Viji M | Assistant Professor | Algebra | Cryptography |
| 4. | Dr. Saju M I | Assistant Professor | Cryptography |  |

1. **Details of Publications during 2022**(**latest first**)
2. **Publications in International Journals during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No | Author(s) | Title | Journal & year, Volume,  pages | Publisher, Date of Publication with  **doi** | Impact Factor, if  any |
| 1. | T.S. Neethu,  S. Areekara,  A.S. Sabu,  A. Mathew,  R. Kumar | Transport phenomena in hydromagnetic convective Carreau nanoliquid flow over an elongating cylinder: A statistical approach | *ZAMM - Journal of Applied Mathematics and Mechanics / Zeitschrift für Angewandte Mathematik und Mechanik*, (2022) | Wiley  26/09/2022  <https://doi.org/10.1002/zamm.202100385> | 1.759 (2021) |
| 2. | A.S. Sabu,  J. Mackolil,  B. Mahanthesh,  A. Mathew | Numerical study of Reiner-Rivlin nanoliquid flow due to a rotating disk with Joule heating and non-uniform heat source using Bulirsch-Stoer algorithm. | *Waves in Random and Complex Media*, 1–23 (2022) | Taylor & Francis  23/08/2022  <https://doi.org/10.1080/17455030.2022.2111476> | 4.051 (2021) |
| 3. | S. Areekara,  J. Mackolil,  B. Mahanthesh,  A. Mathew | Bulirsch-Stoer computations for bioconvective magnetized nanomaterial flow subjected to convective thermal heating and Stefan blowing: a revised Buongiorno model for theranostic applications | *Waves in Random and Complex Media*, 1–33 (2022) | Taylor & Francis  28/07/2022  <https://doi.org/10.1080/17455030.2022.2102692> | 4.051 (2021) |
| 4. | P. Kumar,  H. Poonia,  L. Ali,  S. Areekara | The numerical simulation of nanoparticle size and thermal radiation with the magnetic field effect based on tangent hyperbolic nanofluid flow | *Case Studies in Thermal Engineering*, **37**, 102247 (2022) | Elsevier  08/07/2022  <https://doi.org/10.1016/j.csite.2022.102247> | 6.268 (2022) |
| 5. | A. Mathew,  S. Areekara,  A.S. Sabu | Significance of magnetic field and stratification effects on the bioconvective stagnation-point flow of ferro-nanofluid over a rotating stretchable disk: Four-factor response surface methodology | *Journal of the Indian Chemical Society*, 100615 (2022) | Elsevier  01/07/2022  <https://doi.org/10.1016/j.jics.2022.100615> | 0.243 (2022) |
| 6. | A.S. Sabu,  S. Areekara,  A. Mathew | Regression analysis on MHD Darcy-Forchheimer hybrid nanoliquid flow over an elongated permeable sheet in a porous medium with hydrodynamic slip constraint: a realistic two-phase modified Buongiorno model | *Waves in Random and Complex Media*, 1–24 (2022) | Taylor & Francis  16/06/2022  <https://doi.org/10.1080/17455030.2022.2086318> | 4.051 (2021) |
| 7. | T.S. Neethu,  A.S. Sabu,  A. Mathew,  A. Wakif,  S. Areekara | Multiple linear regression on bioconvective MHD hybrid nanofluid flow past an exponential stretching sheet with radiation and dissipation effects | *International Communications in Heat and Mass Transfer*, **135**, 106115 (2022) | Elsevier  19/05/2022  <https://doi.org/10.1016/j.icheatmasstransfer.2022.106115> | 6.782 (2022) |
| 8. | T.S. Neethu,  S. Areekara,  A.S. Sabu,  A. Mathew,  K.K. Anakha | Bioconvective electromagnetohydrodynamic hybrid nanoliquid flow over a stretching sheet with stratification effects: a four-factor response surface optimized model | *Waves in Random and Complex Media*, 1–26 (2022) | Taylor & Francis  28/04/2022  <https://doi.org/10.1080/17455030.2022.2066218> | 4.051 (2021) |
| 9. | I.L. Animasaun,  S.J. Yook,  T. Muhammad,  A. Mathew | Dynamics of ternary-hybrid nanofluid subject to magnetic flux density and heat source or sink on a convectively heated surface | *Surfaces and Interfaces*, **28**, 101654 (2022) | Elsevier  03/12/2021  <https://doi.org/10.1016/j.surfin.2021.101654> | 6.137 (2022) |
| 10. | A.S. Sabu,  J. Mackolil,  B. Mahanthesh,  A. Mathew | Nanoparticle aggregation kinematics on the quadratic convective magnetohydrodynamic flow of nanomaterial past an inclined flat plate with sensitivity analysis | *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, **236(3),**1056-1066 (2022) | Sage  02/12/2021  <https://doi.org/10.1177/09544089211056235> | 1.822 (2022) |
| 11. | S. Areekara,  J. Mackolil,  B. Mahanthesh,  A. Mathew,  P. Rana | A study on nanoliquid flow with irregular heat source and realistic boundary conditions: A modified Buongiorno model for biomedical applications | *ZAMM - Journal of Applied Mathematics and Mechanics / Zeitschrift für Angewandte Mathematik und Mechanik*, **102**, e202100167 (2022) | Wiley  25/11/2021  <https://doi.org/10.1002/zamm.202100167> | 1.759 (2021) |
| 12 | P. Aboobacker  M. Viji | New design of S box based on Galois field of odd characteristic and analysis of its cryptographic attributes | Advances and Applications in Mathematical Sciences Volume 21( 10) August 2022, 5935-5946 | Mili Publications  05/08/22 |  |

1. **Publications in National Journals during 2022**(**latest first**)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl. No | Author(s) in order | Title | Journal & year, Volume, pages | Publisher, Date of Publication,  (**doi**, ifany) | ISSN &  Indexed by | Impact Factor, if any |
|  |  |  |  |  |  |  |

1. **Book(s) authored/Edited Volumes/Chapters during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Author(s) in  order | Title | Publisher,  Volume, pages | Date of  Publication | International/  National |
| 1. | S. Areekara,  A. Mathew | **Chapter:** “Significance of ESHS and LHS on the MHD hybrid nanofluid flow towards a stagnation point on a stretching/ shrinking cylinder”**Book:**“Cogitations on Advances in Physical and Mathematical Sciences” | Shree Vinayak Publication  Pg: 64 | 24/06/2022 | National |

1. Average Impact Factor of publications from the centre
2. Patents (if any) (latest first)
   1. Granted
   2. Filed
3. **Details of PhD awarded during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No | Candidate | Supervisor | Title | Subject | Date of  award |
|  |  |  |  |  |  |

1. **Details of PhD Registration for 2022 (New)** (**latest first**)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. | Candidate | Supervisor | Title | Subject | Date of | Part | Nature |
| No |  |  |  |  | Registration | time/ | of |
|  |  |  |  |  |  | Full | fellows |
|  |  |  |  |  |  | time | hip |
| 1. | Abhijith P | Dr. Alphonsa Mathew | Mathematical modelling of ternary-hybrid nano fluid flows in diverse geometry | Fluid Dynamics | 14/11/2022 | Full time | UGC-JRF |
|  |  |  |  |  |  |  |  |

1. **New Research Projects sanctioned during 2022** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
|  |  |  |  |  |  |

1. **Ongoing Research Projects 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
|  |  |  |  |  |  |

1. **Research Projects submitted during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

H Details of Seminar/Workshops attended during 2022(latest first)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Name | Title of the event | Organizer &  venue | International/  National | Period |
| 1 | Dr Sr Julie Andrews | DST-PURSE Supported Satellite Symposium on Physical Sciences, Life Sciences, Chemical Sciences, Mathematical-Computational Sciences | Bharathiar University, Coimbatore | National | 13/09/2022 to 15/09/2022 |
| 2 | Rose Paul | DST-PURSE Supported Satellite Symposium on Physical Sciences, Life Sciences, Chemical Sciences, Mathematical-Computational Sciences | Bharathiar University, Coimbatore | National | 13/09/2022 to 15/09/2022 |
| 3 | Rose Paul | International Conference on Mathematics of Intelligent Computing and Data Science (ICMICDS 2022) | Department of Mathematics, Rajagiri School of Engineering and Technology Autonomous) and Centre for Topology and Applications | International | 16/09/2022 |
| 4 | Rose Paul | Two-Day National Level Symposium on Emerging Trends in Applied Mathematics (ETAM 2022) | Department of Mathematics, St Thomas’ College Autonomous), Thrissur , KMA and KSCSTE | National | 27/10/2022 to 28/10/2022 |
| 5 | Sujesh A S | Two-Day National Level Symposium on Emerging Trends in Applied Mathematics (ETAM 2022) | Department of Mathematics, St Thomas’ College Autonomous), Thrissur , KMA and KSCSTE | National | 27/10/2022 to 28/10/2022 |
| 6 | Abhijith P | Two-Day National Level Symposium on Emerging Trends in Applied Mathematics (ETAM 2022) | Department of Mathematics, St Thomas’ College Autonomous), Thrissur , KMA and KSCSTE | National | 27/10/2022 to 28/10/2022 |
| 7 | Sabu A S | Two-Day National Level Symposium on Emerging Trends in Applied Mathematics (ETAM 2022) | Department of Mathematics, St Thomas’ College Autonomous), Thrissur , KMA and KSCSTE | National | 27/10/2022 to 28/10/2022 |
| 8 | Aboobacker P | International Conference on Recent Advances in Mathematics and Computational Engineering  (ICRAMCE 2022) | Department of  Mathematics, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, Tamil Nadu, India | International | 06/01/2022 to 07/01/2022 |
| 9 | Aboobacker P | Two-Day National Level Symposium on Emerging Trends in Applied Mathematics (ETAM 2022) | Department of Mathematics, St Thomas’ College Autonomous), Thrissur , KMA and KSCSTE | National | 27/10/2022 to 28/10/2022 |
| 10 | Karthika S | International Conference on Semigroups, Algebras and Operator theory(ICSAOT) | Department of Mathematics, Cochin University of Science and Technology | International | 28/03/2022 to 31/03/2022 |
| 11 | Karthika S | Two-Day National Level Symposium on Emerging Trends in Applied Mathematics (ETAM 2022) | Department of Mathematics, St Thomas’ College Autonomous), Thrissur , KMA and KSCSTE | National | 27/10/2022 to 28/10/2022 |
| 12 | Jincy Pauly | Two-Day National Level Symposium on Emerging Trends in Applied Mathematics (ETAM 2022) | Department of Mathematics, St Thomas’ College Autonomous), Thrissur , KMA and KSCSTE | National | 27/10/2022 to 28/10/2022 |
| 13 | Dr. Viji M. | Two-Day National Level Symposium on Emerging Trends in Applied Mathematics (ETAM 2022) | Department of Mathematics, St Thomas’ College Autonomous), Thrissur , KMA and KSCSTE | National | 27/10/2022 to 28/10/2022 |
| 14 | Jincy Pauly | National Instructional Workshop on Cryptology – NIWC 2022 | Precidency University, Bangalore ,  CRSI | National | 17/08/2022 to 19/08/2022 |
| 15 | Jincy Pauly | Student Development Program on Fundamentals of Python Programming (Online) | E&ICT Academy,  IIT Kanpur | National | 18/04/2022 to 22/04/2022 |
| 16 | Jincy Pauly | Student Development Program on Cyber Security with Python (Online) | E&ICT Academy,  IIT Kanpur | National | 21/04/2022 to 01/05/2022 |
| 17 | Jincy Pauly | Quantum Computing and Security (Online) | Manorama Horizon | National | 26/08/2022 to 28/08/2022 |
| 18 | Antony John E F | Quantum Computing and Security (Online) | Manorama Horizon | National | 26/08/2022 to 28/08/2022 |
| 19 | Antony John E F | National Instructional Workshop on Cryptology – NIWC 2022 | Precidency University, Bangalore ,  CRSI | National | 17/08/2022 to 19/08/2022 |

I. Extension activities (Session chaired/invited lectures, services,etc.) of the Faculty during 2021 (latest first)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Name | Title of the event | Organizer & venue | International/  National | Date |
| 1 |  |  |  |  |  |

**Part II**

1. **Details of Seminar/Workshops organized by the Centre (latest first)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No | Title of the event | Co-ordinator | Organizer/sponsor & venue | International/  National | Duration |
| 1. | Two-Day National Level Symposium on Emerging Trends in Applied Mathematics (ETAM 2022) | Dr. Sr. Julie Andrews | Department of Mathematics, St Thomas’ College Autonomous), Thrissur , KMA and KSCSTE  Kaviprathibha Hall, St. Thomas’ College (Autonomous), Thrissur | National | 2 days |

1. **Special achievements/awards, if any**

**Sd/-**

**Name & Designation of the**

**Head of the Research Centre**

University of Calicut

PROFORMA - ANNUAL REPORT 2022 [Research]

(From January 01, 2022 onwards)

Name of Research Centre :RESEARCH DEPARTMENT OF COMMERCE

Address :ST THOMAS COLLEGE (AUTONOMOUS), THRISSUR

E-mail ID &ContactNo. :drbijujohnm@gmail.com, 9447448568

Part I \*

DETAILS OF RESEARCH SUPERVISORS

1. **Name &Designation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl.  No | Name of Research  Supervisor | Designation | Research  domain | Subject (**if more**  **than 1, specify**) |
| 1 | Dr. Biju John M | Associate Professor &Head | Finance | Commerce |
| 2 | Dr. Paul Jose P. (Retd) | Associate Professor (Retd) | Finance | Commerce |
| 3 | Dr.Sindhu K.P. | Asst. Prof.  NSS College Nenmara | Finance | Commerce |

1. **Details of Publications during 2022**(**latest first**)
2. **Publications in International Journals during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No | Author(s) | Title | Journal & year, Volume,  pages | Publisher, Date of Publication with  **doi** | Impact Factor, if  any |
| 1 | B, Jency., K.P, Sindhu & M, Biju John | Strategies for the development of urban tourism in Kerala in the post covid pandemic scenario | International Journal of Humanities, Law and Social Sciences, IX, 3, 102-110 | Kanpur Philosophers, 2022. |  |
| 2 | Menon, Urmila., K.P, Sindhu & M, Biju John | An empirical study on importance of faculty engagement in creating Organisational Citizenship Behaviour (OCB) | International Journal of Humanities, Law and Social Sciences, IX, 4, 43-49 | Kanpur Philosophers, 2022. |  |
| 3 | P.G, Sreekumar., K.P, Sindhu & M, Biju John | A study on fluctuations in the attitude of salaried individuals towards income and saving pattern due to Covid 19 in Kerala | International Journal of Humanities, Law and Social Sciences, IX, 7, 1-8 | Kanpur Philosophers, 2022. |  |
| 4 | S, Darsana., & M, Biju John | Forecasting Net Asset Value of Equity Mutual Funds in India: An application of ARIMA model | International Journal of Humanities, Law and Social Sciences, IX, 4, 108-114 | Kanpur Philosophers, 2022. |  |
| 5 | M, Biju John, K, SowmiaRajan., & G, Divya | Investment behaviour of NRI’s – An empirical investigation | Journal of Education: Rabindra Bharathi University, XXIV, 1, 1-5 | 2022 |  |

1. **Publications in National Journals during 2022**(**latest first**)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl. No | Author(s) in order | Title | Journal & year, Volume, pages | Publisher, Date of Publication,  (**doi**, ifany) | ISSN &  Indexed by | Impact Factor, if any |
|  |  |  |  |  |  |  |

1. **Book(s) authored/Edited Volumes/Chapters during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Author(s) in  order | Title | Publisher,  Volume, pages | Date of  Publication | International/  National |
|  |  |  |  |  |  |

1. Average Impact Factor of publications from thecentre
2. Patents (if any) (latest first)
   1. Granted
   2. Filed
3. **Details of PhD awarded during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No | Candidate | Supervisor | Title | Subject | Date of  award |
| 1 | Anoop K G | Dr. Biju John M | Service Quality and Post Service Behaviour of Customers | COMMERCE | 09-11-2021 |

1. **Details of PhD Registration for 2022 (New)** (**latest first**)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. | Candidate | Supervis | Title | Subject | Date of | Part | Nature |
| No |  | or |  |  | Registration | time/ | of |
|  |  |  |  |  |  | Full | fellows |
|  |  |  |  |  |  | time | hip |
| 1 | Athira J | Dr. Biju John M. | Sustainability performance among public and private sector banks in India | Finance | 30-04-2022 | Full Time | UGC-JRF |
|  |  |  |  |  |  |  |  |

1. **New Research Projects sanctioned during 2021** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
|  |  |  |  |  |  |

1. **Ongoing Research Projects 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
|  |  |  |  |  |  |

1. **Research Projects submitted during 2022**(**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

H Details of Seminar/Workshops attended during 2022(latest first)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Name | Title of the event | Organizer &  venue | International/  National | Period |
|  |  |  |  |  |  |

I. Extension activities (Session chaired/invited lectures, services,etc.) of the Faculty during 2021 (latest first)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Name | Title of the event | Organizer & venue | International/  National | Date |
| 1 |  |  |  |  |  |

**Part II**

1. **Details of Seminar/Workshops organized by the Centre (latest first)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No | Title of the event | Co-ordinators | Organizer/sponsor & venue | International/  National | Duration in Days |
| 1 | Research Workshop; Structural Equation Modelling | Dr.Biju John M.  Prof. Sindhu George | St.Thomas College, Thrissur | National | 1 |
| 2 | National Workshop on Problem Solving and Ideation | Prof. Jilna John | St.Thomas College, Thrissur | National | 1 |
| 3 | FINCON 2022- International Virtual Conference on Advances in Financial Markets and Services in association with IACC | 1. Dr.Biju John M. 2. Dr. Divya George 3. Ms. Sindhu George | St.Thomas College, Thrissur | International | 2 |
| 4 | Workshop on Research Publication and ethics:  Publishing in Credible Journals Do’s and Dont’s | Mr. Ajesh Antony | St.Thomas College, Thrissur | National | 1 |

1. **Special achievements/awards, if any**

**Sd/-**

**Name & Designation of the**

**Head of the Research Centre**

University of Calicut

PROFORMA - ANNUAL REPORT 2021 [Research]

(From January 01, 2022 onwards) Name ofResearchCentre : ENGLISH

Address : ST. THOMAS COLLEGE, THRISSUR

E-mail ID &ContactNo. : [antoct@yahoo.co.in](mailto:antoct@yahoo.co.in), 9447423486

Part I \*

DETAILS OF RESEARCH SUPERVISORS

1. **Name &Designation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl.  No | Name of Research  Supervisor | Designation | Research  domain | Subject (**if more**  **than 1, specify**) |
| 1  2  3  4  5  6  7  8  9 | Anto Thomas C  C.S. Biju  Martin K.A.  Viju M. J.  Syam Sudhakar  Stishin K Paul  Anju E.A.  Sanil Raj J.  C.J. Davees | Professor  Professor  Assistant Professor  Assistant Professor  Assistant Professor  Assistant Professor  Assistant Professor  Professor (Retired)  Associate Professor (Retired) | English  Performance  ELT  English | Children’s Literature, Cultural Studies, Fiction  Indian English  Cultural Studies, Poetry, Gender |

1. **Details of Publications during 2022** (**latest first**)
2. **Publications in International Journals during 2022** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl. No | Author(s) | Title | Journal & year, Volume,  pages | Publisher, Date of Publication with  **doi** | Impact Factor, if  any |
| 1 | Viju MJ | Teaching Literature/literature in ELT: Traditional Approaches and Methods and the Need for New Approaches Today | International Journal of Research Culture Society | Research Culture Socity& Publication,  )ctober-2022 | 5.743 |

1. **Publications in National Journals during 2022** (**latestfirst**)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sl. No | Author(s) in order | Title | Journal & year, Volume, pages | Publisher, Date of Publication,  (**doi**, ifany) | ISSN &  Indexed by | Impact Factor, if any |
| 1 | Christeena T Jose | Fan and Fandom: A Study of Eric Greenberg’s *The Celebrant* | IJRTI | Volume 7 Issue 6 June 2022 | IJRTI2206003 | 8.14 |

1. **Book(s) authored/Edited Volumes/Chapters during 2022** (**latestfirst**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Author(s) in  order | Title | Publisher,  Volume, pages | Date of  Publication | International/  National |

1. Average Impact Factor of publications from the centre
2. Patents (if any) (latestfirst)
   1. Granted
   2. Filed
3. **Details of PhD awarded during 2022** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No | Candidate | Supervisor | Title | Subject | Date of  award |
| 1 | Sameera K. I. | Sanil Raj J | Perspectives on Gaia: A Voyage into American Green Reading | English | Viva/Open Defense conducted |
| 2 |  |  |  |  |  |

1. **Details of PhD Registration for 2022 (New)** (**latest first**)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sl. | Candidate | Supervis | Title | Subject | Date of | Part | Nature |
| No |  | or |  |  | Registration | time/ | of |
|  |  |  |  |  |  | Full | fellows |
|  |  |  |  |  |  | time | hip |
|  |  |  |  |  |  |  |  |

1. **Details of M.Phil. students for 2022 (latest first**)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl.No | Candidate | Supervisor | Title | Date of award/ongoing |
|  |  |  |  |  |

1. **New Research Projects sanctioned during 2022** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
|  |  |  |  |  |  |

1. **Ongoing Research Projects** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
|  |  |  |  |  |  |

1. **Research Projects submitted during 2022** (**latest first**)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No. | Principal  Investigator | Title | Funding  Agency | Order No. | Amount |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

1. Details of Seminar/Workshops attended during 2022 (latest first)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Name | Title of the event | Organizer &  Venue | International/  National | Period |
| 1 | Viju M.J. | International Conference on Global Trends in Engl;ish Language, Literature& LInguistics | Research Culture Society,Hyderabad | International | Oct.8-9,2022 |
| 2 | Viju M.J. | The Road Less Travelled: National Webinar | Gandhigram Rural Institute (Deemed University), Dindigal, TN | National | July15, 2022 |
| 3 | Viju M.J. | Prof. K.T. Sebastian Scholar in Residence Programme | S. B. College, Changanassery. | International | 07-06-2022 |
| 4 | Viju M.J. | FDP Programme | Christu Jayanth College, Bangalore | National | May 19-23, 2022 |
| 5 | Viju M.J. | Short term Programme for Research Supervisors | DoR, University of Calicut | National | March 1-3, 2022 |

J. Extension activities (Session chaired/invited lectures, services,etc.) of the Faculty during 2022 (latest first)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.  No | Name | Title of the event | Organizer & venue | International/  National | Date |
| 1 | Viju M.J. | Speak smart programme at Model Boys HSS,Thrissur: Coordinator | STC English Dept& Model Boys HSS,Thrissur | Regional | 11 Oct.2022 |
| 2 | Viju M.J. | Reading Day Inauguration& Keynote Address | St Alphonsa Public SChool,Pattikkad | Regional | 20-06-2022 |
| 3 | Anto Thomas C | Linnaeus-Palme Fellowship | Malmo University  Sweden | International | May, June 2022 |
| 4 | Anto Thomas C | Invited Paper Presentation at Child &the Book Conference | University of Malta | International | 25-27 May 2022 |
| 5 | C.S. Biju | Best English Teacher Award | SB College, Changanassery | National | 20-5-2022 |
| 6 | Viju M. J. | two day national levelvirtual FDP programm; Resource Person | Sri GVG Visalakshi College for Women,Udumalpett,Tamilnadu | National | 30-05-2022 |
| 7 | Viju M.J. | International Virtual Conference on Sustainable Development:Literary, Ethical & Religious Perspectives-Session Chair | St Aloysius College,Elthuruth | International | 24-03-2022 |
| 8 | Syam Sudhakar | Poetry, Poetry Reading and Discussion (Resource Person) | Sri Krishna College, Bagula Nadia, West Bengal | National | 17 – 18 March 2022 |
| 9 | Viju M. J. | National Seminar on “Advances in Interdisciplinary Research Approaches” and Research Scholar- Joint Coordinator | Research Council, St. Thomas College, Thrissur | National | 18-02-2022 |

K. Special achievements/awards during 2022, ifany

**Part II**

1. **Details of Seminar/Workshops organized by the Centre (latest first)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sl.No | Title of the event | Co-ordinator | Organizer/sponsor & venue | International/  National | Duration |
| 1 | Erudite Lecture Series | C.S. Biju | Kerala Higher Education Council | International | May 2022 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| 2 | International Women’s Day | Viju M. J. | Department of English  St. Thomas College  Thrissur | Local | 10-03-2022 |
| 3 | Resonating Wonder: Shakespeare in Indian and Global Avatars | M.A. Biju | Department of English  St. Thomas College, Thrissur | National | 25-02-2022 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**Sd/-**

**Name & Designation of the**

**Head of the Research Centre**

**\* *Part I*** *should beconsolidated* ***(****Guide-wise), before submission*

**\*\****Data pertaining to this year alone be submitted*