

## CURRICULUM VITAE

Name : **Dr. T. FRANCIS XAVIER**

Date of Birth : 07-04-1979

Designation : Assistant Professor  
Department of Botany  
St. Joseph's College (Autonomous)  
Tiruchirappalli - 620 002  
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### Educational Qualification :

Degree	University/Institution	Year	Class
Ph.D	Department of Botany, St. Joseph's College (Autonomous), Affiliated to Bharathidasan University, Tiruchirappalli - 620 002	2007	Commended
M.Sc	Department of Botany, St. Joseph's College (Autonomous), Tiruchirappalli - 620 002	2001	First Class
B.Sc	Department of Botany, St. Joseph's College (Autonomous), Tiruchirappalli - 620 002	1999	Fist Class

### Research Grants/ Funds mobilized as Principal Investigator/ Coordinator

Agency	Title of the Projects/ Programmes	Duration	Grant Received
UGC New Delhi	Isolation and characterization of opportunistic pathogens from hospitalized AIDS patients of Namakkal district and antimicrobial screening of traditional medicinal plants of Kolli hills	2012- 15 <b>(Completed)</b>	7 Lakh
SERB-DST New Delhi	Isolation and characterization of emerging opportunistic pathogens from hospitalized AIDS patients of Karur district of Tamil Nadu and antimicrobial screening of local medicinal plants on opportunistic pathogens	2013-16 <b>(Completed)</b>	17 Lakh
Indian Academy of Sciences Bangalore	Science academies' Lecture Workshop on Vistas in Biosciences ( 30 & 31, Jan.2015)	2015	2 lakh
	Science academies' Lecture Workshop on Bioprospecting and Bioresources ( 10 -12, Feb, 2016)	2016	2 lakh
	Science Academies' Refresher Course for College teachers on Experimental Biology-- Orthodox to Modern (7-19, Nov. 2016)	2016	8 lakh
	Science academies' Lecture Workshop on Vistas in Biodiversity and Biorecourses ,Bangalore (2-4 , Aug.2017)	2017	2 lakh
	Science Academies' Refresher Course for College teachers on Bioprospection of Bioresources (4-18, Jan. 2018)	2018	7.97 lakh
	DST- INSPIRE Internship Science Camp for School students ( 7- 12 Aug.2018)	2018	9.75 lakh
	Science Academies' Refresher Course for College teachers on 'Known to Unknown Techniques' in Biology ( 1- 15, Nov.2018)	2018	7.97 lakh

### **Awards received**

:**Young Scientist Award** in the form of Startup Research Grant **Rs.17 Lakhs** from Science and Engineering Research Board (SERB), Department of Science and Technology, New Delhi

:**Best Paper Presentation Award received** (2004) for the paper presented on the title of *In vitro* effect of *Malaxis rheedii* Sw. leaf extract on *E. coli* mutant strains in National Biological Congress on BIOME and BIOSCIENCES, Jan 9-10, Organised by Muthayammal College of Arts and Science and Flora, Sponsored by CSIR, New Delhi.

**Current Duties:** Teaching; Dissertation Guidance; Research Supervision & Publication; Mentoring; Students' Progression, Community Work & Service Learning

### **Research Specialization / Current Area of Research:**

- i. Clinical Microbiology- opportunistic pathogens from HIV/AIDS patients
- ii. Pharmacognosy

### **Research Output**

- 6 M.Phil Microbiology and 1 Botany Theses supervised & declared
- Supervised 13 PG Research in Microbiology and Botany
- Publications

### **Ph.D Guided**

- **Dr.M.Kannan.** Ethnobotanical, Antimicrobial and Phytochemical Screening of Selected Medicinal plants of Kolli Hills on Opportunistic Pathogens of HIV/AIDS Patients. (**PhD awarded in Botany- July 2017**)
- **Dr.A.Auxilia.** Isolation and Characterization of Emerging Opportunistic Pathogens from Hospitalized AIDS Patients of Karur District and Antimicrobial Screening of Local Medicinal Plants on Opportunistic Pathogens. (**PhD awarded in Botany - August 2017**)

### **Ph.D Thesis Submitted**

**Ms. G. Gomathi** (Full time), Mycorrhizal Diversity and Specificity of *Vanda* and *Cymbidium* species using DNA barcoding. ( **Thesis submitted February , 2019**)

### **Ph.D Thesis Underway**

- **Mr.Arun Bastin**(part time) Ethnobotanical studies on medicinal plants of Pachalur hills of Dindugal district (Botany - October, 2012)
- **Mrs. A.Vidhya.** Ethnopharmacological studies on ethnomedicinal flora of Shevoroay hills of Salem district (Botany October, 2012)
- **Mr. G. Dhanasekaran** (Part time) Ethnobotanical Survey, Antimicrobial Efficacy and Phytochemical Screening of Selected Medicinal Plants Used by the Malayali Community of Kalrayan Hills, Villupuram District, Tamil Nadu (Botany October, 2014).
- **Mr. D. Sathish Kumar** (Full time). *In vitro* Micropropagation, Antimicrobial Screening and Phytochemical Studies on *Andrographis ehioides* (L.), (Botany October, 2015).
- **Mrs. K. Usha** (Part time), Ethnobotanical Studies in Javadi Hills in Thiruvannamalai District. (Botany April,2017).
- **Ms. R. Sabitha** (Full time), *In vitro* Micropropagation, Antimicrobial and Phytochemical Screeing of *Drynaria quercifolia* (L.) J. SM.

**Teaching Experience** : 13Years

**Research Experience** : 15 Years

**Present Position** : Assistant Professor (Government Aided)  
Department of Botany  
St. Joseph's College (Autonomous)  
Tiruchirappalli - 620 002

**Extension Activities** : Served as National Service Scheme (NSS) Programme officer from June 2011- May 2014 (**Annexure – I**)

**Workshop / Training Programme organized**

- i. One Day State Level Workshop on Microbiological and Phytochemical Techniques (**Invisibles and Phytobiotics '13**) on 18<sup>th</sup> December, 2013
- ii. One Day State Level Workshop on Basic Techniques in Microbiology for School Teachers (**MicroTech '14**) on 28<sup>th</sup> August, 2014
- iii. Science academies' Lecture Workshop on Vistas in Biosciences on 30 & 31, Jan.2015. sponsored by Indian Academy of Sciences.
- iv. Science academies' Lecture Workshop on Bioprospecting and Bioresources on 10 -12, Feb, 2016, sponsored by Indian Academy of Sciences.
- v. Science Academies' Refresher Course for College teachers on Experimental Biology-- Orthodox to Modern on 7-19, Nov. 2016, sponsored by Indian Academy of Sciences.
- vi. Science academies' Lecture Workshop on Vistas in Biodiversity and Biorecourses ,Bangalore on 2-4 , Aug.2017, sponsored by Indian Academy of Sciences
- vii. Science Academies' Refresher Course for College teachers on Bioprospection of Bioresources on 4-18, Jan. 2018, sponsored by Indian Academy of Sciences.

**Workshop /Training Programme attended**

- i) Science Academies Refresher course on 'Modern Biotechnology: concepts & practices (MBCP 2013) from 15<sup>th</sup> to 29<sup>th</sup> May, 2013 sponsored by Indian Academy of Sciences , Bangalore at School of Biotechnology , Madurai Kamaraj university, Madurai
- ii) **National workshop on Nanobiotechnology and Molecular biology** from **11<sup>th</sup> -14 December, 2012** at Centre for Advanced Studied in Botany, University of Madras, Chennai.
- iii) **International Training Course on Biotechnological Tools for Plant Improvement 2003** at K. S. R. College of Arts & Science, Tiruchengode, Sponsored by International Cell Research Organization, UNESCO and EMBO.
- iv) **National Level Workshop on Phytochemistry and Plant Tissue Culture, 2005** at Centre for Advanced Studied in Botany, University of Madras, and Chennai.

## **National / International Research Publications (Annexure – II)**

1. **T. Francis Xavier**, Arockiadoss Arun Bastin and Dr. Anthonysamy Auxilia, 2018, Ethnomedicinal survey on plants used by paliyar tribes in pachalur hills, eastern ghats of Tamil Nadu, South India, World Journal of Pharmaceutical Research, 7(6):423-458.
2. **T. Francis Xavier** and D. Sathish Kumar, 2018, Indirect organogenesis of *Andrographis echioides* (L.) Nees, World Journal of Pharmaceutical research, 7(5):1655-1664.
3. **T. Francis Xavier**, Freeda Rose and S.R. Senthil Kumar, 2018. In vitro antibacterial activity of *Clausena dentata* (Wild.) M. Roem leaf extract against opportunistic bacterial pathogens of HIV/AIDS patients, International Journal of Current Research and Academic Review, 5(9):60-65
4. **T. Francis Xavier**, Freeda Rose and S. R. Senthil Kumar, 2018, Clinical profile of opportunistic bacterial and fungal pathogens in HIV/AIDS patients of Thuraiyur region of Tiruchirappalli District, Tamil Nadu, India, International Journal of Current Research and Academic Review, 5(9):10-14.
5. **T. Francis Xavier**, Packirisamy Dhanalakshmi and Mohamed Shamsudin, 2018. Biological efficacy of *Centella asiatica* (L) urban against opportunistic pathogens, International Journal of Pharmacy and Biological Sciences, 8(1):209-213.
6. **T. Francis Xavier** and D. Sathish Kumar, 2018. Antibacterial screening of *Andrographis echioides* (L.) nees against selected human pathogenic bacteria, World Journal of Pharmaceutical Research, 7(4):1212-1219.
7. **T. Francis Xavier** and G. Dhanasekaran, 2018. In vitro antibacterial potential of *trichosanthes tricuspidata* Lour. against pathogenic bacteria, World Journal of Pharmacy and Pharmaceutical Sciences, 7(2):1436-1441.
8. **T. Francis Xavier**, S. R. Senthil Kumar and G. Gomathi, 2017, DNA barcoding of Vanda species from the regions of shevaroy and kolli hills using rbcL gene, Biotechnological research, 3(4):94-98.
9. **T. Francis Xavier**, Moorthy Kannan, Anthonysamy Auxilia, 2016, Sensitivity pattern of opportunistic bacterial pathogens of HIV/AIDS patients on *Cyclea peltata* (LAM.) HOOK.F. & Thompson – A Potential Medicinal Plant, World Journal of Pharmacy and Pharmaceutical Sciences. 5(3):864-870.
10. **T. Francis Xavier**, Moorthy Kannan, Anthonysamy Auxilia, 2015, Observation on

the traditional phytotherapy among the malayali tribes in eastern ghats of Tamil Nadu, South India, Journal of Ethnopharmacology, 165:198-214. (**Impact Factor 3.3**)

11. **T. Francis Xavier**, M. Kannan and A. Auxilia, 2015. Traditional Medicinal Plants Used in the treatment of different skin diseases, International Journal of Current Microbiology and Applied Sciences, 4(5):1043-1053.
12. **T. Francis Xavier**, Moorthy Kannan and Anthonysamy Auxilia, 2015. Isolation and characterization of opportunistic bacterial and fungal pathogens from hospitalized HIV/AIDS patients of Namakkal district in Tamil Nadu, World Journal of Pharmacy and Pharmaceutical Sciences, 4(7):742-750.
13. **T. Francis Xavier** and A.Auxilia, 2014. Prevalence of Candida infection in HIV seropositive patients in Karur district of Tamil Nadu, India, Int.J.Curr.Microbiol. App.Sci, 3(5):312-317.
14. **T.Francis Xavier**, M. Kannan , L. Lija , A. Auxillia , A.Freeda Rose , S.Senthilkumar. Ethnobotanical study of Kani tribes in Thoduhills of Kerala, South India, Journal of Ethnopharmacology, 152 (2014) 78–90 (**Impact Factor 3.3**)
15. **T. Francis Xavier** and S. Senthil Kumar, 2013. Bacteriostatic effect of *Seidenfia rheedii* on bacterial pathogens by time course assay, International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS), 2(3): 630-638.
16. **T.Francis Xavier** and S. Senthil Kumar, 2013. Antibiogram profile of Pathogenic Fungi on *Seidenfia rheedii* leaf extracts, International Journal of Pharma and Biosciences, 4(3): 416-422.
17. **T.Francis Xavier**, A. Auxilia, P.Suresh, M.Kannan and A.Arun Bastin, 2013. Floristic studies on selected sacred groves of Tiruchirappalli District, Tamil Nadu, International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS), 2(4):968-973.
18. **T.Francis Xavier**, P.Suresh, A. Auxilia, M.Kannan and A.Arun Bastin, 2013. Floristic composition and practices on the selected sacred groves of Rajapalayam, Virudhunagar District, Tamil Nadu, Scholars Research Library, 5(3):7-10.
19. **Thangaraj Francis Xavier**, Pandian Nirmal Kumar, Anthony Samy Auxilia and Moorthy Kannan, 2013. In vitro growth inhibition of pathogenic bacteria by *Solanum seaforthianum* L. Pelagia Research Library, 3(4): 70-76.
20. **T.Francis Xavier**, A.Auxilia and M. Senthamil Selvi, 2013. Antibacterial and phytochemical screening of *Solanum erianthum* D. Don, Scholars Research Library, 3(2):131-133.

21. **T. Francis Xavier**, A.Auxilia, M.Kannan, A.Freeda Rose and S. R. Senthil Kumar, 2013. Isolation and Identification of *Cryptococcus neoformans* from pigeon droppings in Tiruchirappalli district of Tamil Nadu, South India, Int.J.Curr.Microbiol.App.Sci, 2(11):404-409.
22. M.Kannan, L.J. Lija, **T.Francis Xavier** and A.Auxilia, 2013. Antimicrobial activity of the medicinal plant *Senna obtusa* Roxb, International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS), 2(5): 1135-1140.
23. **T.Francis Xavier**, M.Kannan and A.Auxilia, 2013. Spectrum of Opportunistic pathogens in HIV/AIDS patients of Namakkal district of Tamil Nadu, India, Int.J.Curr.Microbiol.App.Sci, 2(8): 110-113.
24. **T. Francis Xavier**, A.Auxilia, M.Kannan, A.Arun Bastin, A.Freeda Rose and S. R. Senthil Kumar, 2013. Comparison of different media for the pigment production of Pathogenic and Non pathogenic *Cryptococcus neoformans* isolates, Scholars Academic Journal of Biosciences, 1(6): 263-266.
25. **T.Francis Xavier**, A.Freeda Rose and M.Dhivyaa, 2011. Ethnomedicinal survey of malayali tribes in kolli hills of Eastern Ghats of Tamil Nadu, India, Indian Journal of Traditional Knowledge , 10(3):559-562 ( **Impact Factor : 0.8**).
26. **T.Francis Xavier** and S.Agatheeswaran, 2010. Antibacterial effects of leaf extract of *Alpinia officinarum*, Journal of Tropical Medicinal plants, Malaysia, 11(1):49-52.
27. **T.Francis Xavier** and S. Senthilkumar. 2009. An evaluation of antibacterial activities of *Seidenfia rheedii* (Sw.) Szlach, African Journal of Biotechnology, 8(23):6608-6611( **Impact Factor: 0.4**)
28. **T. Francis Xavier** and V.R.Arun, 2007. Sensitivity pattern of Bacterial pathogens on the medicinal plants on the Medicinal weed *Lantana camara* (Linn.), Journal of Plant Sciences, USA 2(5):5(7):592-582
29. **T. Francis Xavier** and P.Vijayalakshmi . 2007. Screening of Antibiotic Resistant Inhibitors from Indian Traditional Medicinal Plants Against *Streptococcus mutans* , Journal of Plant Sciences , USA 2 (3): 370-373.
30. **T.Francis Xavier and S.Senthil Kumar**, 2007. Management and Conservation of Medicinal orchids of Eastern Ghats of Tamil Nadu, South India. Journal of Economic and Taxonomic Botany , 31(2):417-422.
31. **T. Francis Xavier** and S. Senthilkumar. 2006. Susceptibility of Bacterial pathogens to *Seidenfia rheedii* leaf extracts, Journal of Tropical Medicinal plants, Malaysia, 7(2):185-188.

32. **T. Francis Xavier** and V.Kalai Selvi . 2005. Antifungal activity of extracts of *Alangium salviifolium*, Journal of Tropical Medicinal Plants, Malaysia Vol.61:72-175.
33. **T. Francis Xavier** and S. Senthilkumar. 2004. *In vitro* sensitivity of *E. coli* mutants to *Malaxis Rheedii* Sw.: A medicinal Orchid of Kolli Hills, South India. J. Swamy Bot. Cl. Vol.21: 47-50.
34. E. Natarajan, S. Senthilkumar and **T. Francis Xavier**. 2003. Antibacterial activity of *Alangium salviifolium* (L.) Wangerin leaf extracts. Journal of Tropical Medicinal Plants, Malaysia, Vol.4,(1): 9-13.
35. **T. Francis Xavier** and S. Senthilkumar. 2003. Antibacterial activity of *Malaxis rheedii* Sw. an ornamental orchid of Shevaroy Region of Eastern Ghats, S. India. Science Focus, an International Journal of Physical and Biological Sciences, Nigeria. Vol.5: 82-88.
36. **T. Francis Xavier** and S. Senthilkumar. 2003. Inhibition of *Aspergillus flavus* (an aflatoxin Producing fungus) by *Tinospora cordifolia* (Willd.) Hook. f. and Thomson Leaf Extracts, Science Focus, an International Journal of Physical and Biological Sciences, Nigeria. Vol.5: 56-59.
37. R. Jayachandran and **T. Francis Xavier** 2003. Antibacterial activity of *Zehneria scabra* root extracts. Journal of Tropical Medicinal Plants, Malaysia, Vol.4(8) : 173-179.
38. E. Natarajan and **T. Francis Xavier**. 2003. Sensitivity of *Aspergillus* species to *Tinospora cordifolia* (Willd.) Hook.f. and Thomson. Asian Journal of Microbiology, Biotechnology and Environmental Sciences. Vol.5 (4): 543-545.
39. R. Jayachandran and **T. Francis Xavier** 2003. Antibacterial activity of stem extracts of *Tinospora cordifolia* (Willd.) Hook. f. & Thomson. Ancient Science of Life, A Journal of International Institute of Ayurveda. XXIII (1): 40-43.
40. **T. Francis Xavier** and E. Natarajan 2003. Antibacterial potential of *Plectranthus amboinicus* (Lour.) Spreng. A study in vitro. Journal of Swamy Botanical Club, Vol.20: 55-58.

#### **Papers presented in National level seminars / Symposia / Conferences**

1. S. Senthilkumar, **T. Francis Xavier** and G. Dhanasekaran. 2002. Microbial approach of *Malaxis rheedii* Sw. National Conference on Medicinal Plants, their utilization, cultivation and marketing. June 26-27 Organised by Department of Botany, Government Arts College, Salem. Sponsored by UGC, New Delhi,

2. S. Senthilkumar and **T. Francis Xavier**. 2002. Status of orchids in Shevaroy hills, a part of Eastern Ghats, Tamil Nadu. XII Annual conference of IAAT and national seminar on Plant Taxonomy in Nation Development. Sep. 26–27. Organised by Department of Botany, Goa University, Goa. Sponsored by CSIR and DST, New Delhi.
3. S. Senthilkumar and **T. Francis Xavier**. 2002. Mycorrhizal Studies of some Orchids, Asian Congress of Mycology and plant pathology. Oct. 1–4. Organised by University of Mysore, Mysore.
4. S. Senthilkumar and **T. Francis Xavier**. 2002. Distribution of Orchids and their status in Shevaroy Hills, a part of Eastern Ghats of Tamil Nadu. Golden Jubilee National Conference on Recent trends in plants science research. Nov. 14 – 15. Organised by Department of Botany, St. Thomas College, Kottayam District, Kerala. Sponsored by DST, New Delhi.
5. S. Senthilkumar and **T. Francis Xavier**. 2003. Orchids: Status and conservation measures in Shevaroy hills, South India. National Symposium on Environmental Biotechnology and Biodiversity Conservation. 31<sup>st</sup> Jan-1<sup>st</sup> Feb. Organised by Department of Biosciences, Sardar Patel University, Gujarat, Sponsored by UGC and DBT, New Delhi.
6. **T. Francis Xavier** and V. Kalai Selvi. 2003. Toxic effect *Alangium salviifolium* (L.) Wangerin. Leaf extracts on *Aspergillus niger* and *Fusarium oxysporum*. National level Seminar on Global Strategies in Biological Sciences, Jan. 10-11. Organised by Centre for Biological Sciences, Muthayammal College of Arts and Science, Rasipuram, Namakkal. Sponsored by CSIR, New Delhi.
7. S. John Britto, S. Kamalanathan, S. Senthilkumar and **T. Francis Xavier**. 2003. Antibacterial sensitivity of *Ocimum tenuiflorum* Linn. A potential Medicinal plant. Regional Seminar on People, plants and Future, Feb. 21-22. Organised by the Gandhigram Rural Institute Deemed University. Gandhigram, Tamil Nadu.
8. J. Sebastinraj, **T. Francis Xavier** and S. Senthilkumar. 2003. Effects of *Vanilla planifolia* Andr. Leaves on some pathogenic Bacteria. National Seminar on Emerging Trends in Plant Sciences. Mar 15-16. Organised by Annamalai University, Annamalainagar, Tamil Nadu.
9. **T. Francis Xavier**. 2003. Superficial Mycoses, Its Incidence in various seasons on the year causes control and prevention. National Seminar on superficial Mycoses, causes, prevention and cure with plant medicines. Sep 12-13, Organised by Department of



Botany, Kandaswami Kander's College, Velur, Sponsored by UGC, New Delhi.

10. **T. Francis Xavier.** 2003. *In vitro* Antibacterial efficacy of *Leucas aspera* (Willd.) Linn. National Seminar on Advancement in Biosciences, October 3-4, Organised by SNMV College of Arts & Science, Coimbatore.
11. **T. Francis Xavier.** 2003. *Cleome gynandra* - A Potential Medicinal Plant for Antibacterial activity. MICROFEAST, Dec 19-20, Organised by Senguthar Arts and Science College, Tirchengode, sponsored by Department of Biotechnology, New Delhi.
12. **\*T. Francis Xavier** and S. Senthilkumar 2004. *In vitro* effect of *Malaxis rheedii* Sw. leaf extract on *E. coli* mutant strains. National Level First Biological Congress on BIOME and BIOSCIENCES, Jan 9-10, Organised by Muthayammal College of Arts and Science and Flora, Sponsored by CSIR, New Delhi.

**\* Best Paper Presentation Award**

13. **T. Francis Xavier** and R. Keerthichandana 2004. *Senna uniflora* - A potential plant source for antibacterial activity. National Level First Biological Congress on BIOME and BIOSCIENCES, Jan 9-10, Organised by Muthayammal College of Arts and Science and Flora, Sponsored by CSIR, New Delhi.
14. **T. Francis Xavier** and K. Anbarasu 2004. Orchids at the Edge of Extinction in Shevaroy Hills, a part of Eastern Ghats of Tamil Nadu. National Conference on 'Current Trends in Biological Scenario' – 11 & 12 August. Organised by Vallalar College for Women, Erode, sponsored by University Grants Commission, New Delhi.
15. **T. Francis Xavier** and S. Senthilkumar, 2007. Antifungal efficacy of *Seidenfia rheedii* (Sw.) Szlach In National seminar on New Frontiers in Biological Sciences-19 & 20 Dec. 2007 organized by Holy Cross College, Tiruchirappalli, South India.
16. **T. Francis Xavier** and S. Senthilkumar, 2007. Sensitivity pattern of the Bacterial pathogens on the Medicinal Plant *Seidenfia rheedii* (Sw.) Szlach In National Conference on Medicinal Plants Research, 24–25 Jan. 2007, Organized by Center for Advanced Studies in Botany, University of Madras, Chennai

**Papers Presented in International Conferences / Symposia**

1. **T. Francis Xavier** and S. SenthilKumar. 2005. Evaluation of *Seidenfia rheedii* (Sw.) Szlach on some phytopathogenic fungi In: International Symposium on BioControl and Biotechnology, Nov. 27 -29. Organized by Lady Doak College, Madurai, South India.
2. **T. Francis Xavier** and M. P. Rajakumari. 2005. Succulent plants. A potential

Resource for Electric Power 2005. In: International Conference on science and Technology for Sustainable Development. Aug. 10-13. Organized by St. Berchman's College, Kottayam, Kerala.

3. S. Senthilkumar, **T. Francis Xavier** and S. Kala. 2003. Orchid Resources in Eastern Ghats of Tamil Nadu, South India. International conference on Sustainable development and Management of Natural Resources, Mar. 15-17. Organised by Holy Cross College, Tiruchirappalli, Tamil Nadu.