Dr. M.V.Ramana Murthy
Professor & Head

Education Qualifications: Doctor of Philosophy (Mathematics)
Specialization: Computational Plasma Dynamics

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DATE OF JOINING: 04-12-2017
EXPERIENCE - 39+Years
- Teaching - 39
- Research -40
- Industry -
- Others –

SUMMARY:
- Publications – 264(J)
- Conferences - 80
- Patents – 07
- Books –
- Research Monograms:02
- Honors/Awards – EC Member

EVENTS:
- Organized - 13
- Attended -

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https://scholar.google.com/citations?user=PyVJL5sAAAAJ&hl=en

Membership of Professional Bodies:
1. IAENG
2. APSMS
3. CSI

Responsibilities Held at Institution Level: HoD & Chairman

Responsibilities Held at Department Level:

Research Guidance:
1. 55 Students were Awarded Ph.D in various branches of Engineering and Sciences (CSE, Applied Mathematics & EEE)
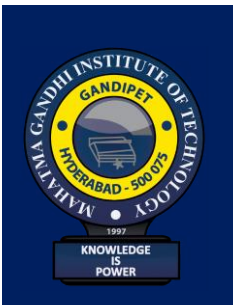
Honors/Awards Received:

Courses Handled at Under Graduate /Post Graduate Level:
1. All Courses in Mathematics related to Engineering Branches

Publications:

1. Improvement of Data Security & Privacy in the Wireless Sensor Network Using Elliptical Curve Cryptography, M.V.Ramana Murthy.et.al.., IJMER, Volume:7, No:1, JAN-2022, PP:2823-2827. Scopus
2. A Two-Level Authentication Protocol for Secure M-Commerce Transactions using Encrypted OTP(Accepted) International Journal Of Mechanical Engineering, Kalahari Journals FEB 2022, ISSN: 0974-5823, PAPER ID: KLHJ5823/12-04868. Scopus
3. Document Clustering Using Spectral Clustering, The Journal of Oriental Research Madras, July, 2021, 0022- 3301, Scopus.
4. Usage of Elliptic Curve Cryptography Technique for the Data Security & Privacy, M.V.Ramana Murthy.et.al.., Nat. Volatiles& Essent. Oils, 2021;8(4), PP:29-33.
5. Singula Two-Point Boundary Value Problems With Spline Finite Difference Methods, M.V.Ramana Murthy.et.al.., Nat. Volatiles & Essent. Oils, 2021;8(5): PP:2143-2148.
6. Correlative Approach of KNN and MQTT for Getting Better Yield in IoT Based Aquaculture, M.V. Ramana Murthy.et.al.. Solid State Technology, Volume: 64 Issue: 2 , Jan 2021, ISSN: 0038-111X (Scopus)
7. "Secured and Efficient Inter Device Communication in IOT Networks" we are pleased, M.V.Ramana Murthy Zeichen JOURNAL Volume 7, Issue 2, February 2021, ISSN No: 0932-4747 (UGC CARE).
8. A CPW feed diamond shaped microstrip patch antenna for RFID and WLAN aplications, M V Ramana Murthy et.al Journal of Xidian University, VOLUME

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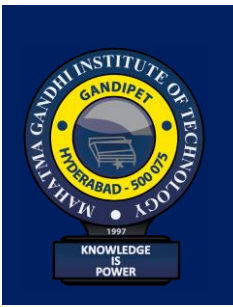- Research Monograms:02
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15, ISSUE 5, 2021,p.p- 253- 260.May 2021.(U G C).

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10. Design Optimization of Low power VLSI Circuits in Deep Submicron Technology. M VRamana Murthy et.al .Annals of Romanian Society for cell Biology.vol. 25. Issue4,, p.p 4260-4264.(Scopus).2021.

11. Risk Prediction of Covid-19 based on Medical Reports using Deep Learning(DL) Artificial Neural Network, M V Ramana Murthy et.al. GIS Science journal Vol. 8, Issue-4, p.p -433-445. 2021. (U G C).

12. Design of a compact triple-band spiral fork shaped antenna for WLAN and Wi-MAX applications, M V Raman Murthy et.al. Jr of Metrics (Accepted). Elsiever-Scopus.

13. A Two-Level Authentication Protocol for Secure M-Commerce Transactions using AMQP Protocol, M V Ramana Murthy et.al. Design Engineering, ISSN: 0011-9342, July/Aug, Year 2021, Issue: 6 | Pages: 844 – 861(Scopus)

14. Document Clustering Using Spectral Clustering, M V Raman Murthy et.al.
The Journal Of Oriental Research Madras, ISSN : 0022-3301,July 2021
pp24-37 (UGC)

15. Design of a compact triple-band spiral fork shaped antenna for WLAN and Wi-MAX applications , M V Raman Murthy et.al. Jr of Metrics (Accepted). Elsiever-Scopus.

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17. Usage of Elliptic Curve Cryptography Technique for the Data Security and Privacy in the Wireless Sensor Network, Nat. Volatiles & Essent. Oils, November, 2021;8(4):6208-6213

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20. AMQP Protocol based two level authentication Security Protocol for M-Commerce Transactions, M.V.Ramana Murthy. et.all procedia 2nd IEEE International Conference on Communication, Computing & Industry 4.0(C2I4)-2021 (IEEE Explore) accepted.

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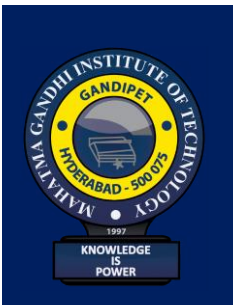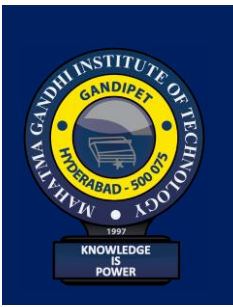- Honors/Awards – EC Member

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59. "Implementation of Neural Network and Mobile Adhoc Sensor Network in Health Care System", International Journal of Engineering Science Inventi M.V.Ramana Murthy.al ISSN: 2319 – 6734, ISSN (Print): 2319 – 6726 Volume Issue 10 October/December 2017 PP. 01 04.

60. "Steganography-A Powerful Web Security Tool for Data Transmission" et.al M.V.Ramana Murthy.al IJFRCSCE, Volume 3, Issue 11, 2017, ISSN 2454-4248, IF: 20293.

61. "Date Warehouse and Security" , M .V. Ramana Murthy, et.al., Int. Jr. Informati Technology and Computer Science Perspectives, Vol. 6, No.1, Jan-Mar., 2017, no. 2394-2400.

62. "Presentation Analysis Of Routing Protocols In Ad Hoc Network's And It's

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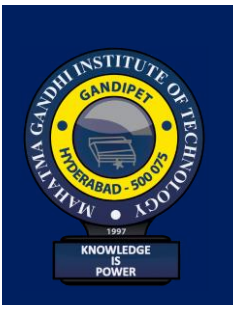- Books –
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Portability'',M .V. Ramana Murthy, et.al. Int. Jr. of Science, Technology and Management, Vol. X, January- 2017, pp. no. 14-21.

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81. Optimization Approach for Radiotherapy Treatment Planning, M .V. Ramana

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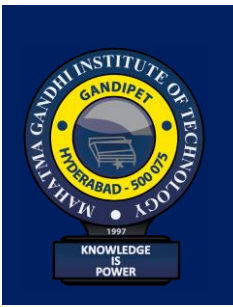- Books –
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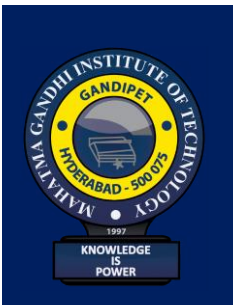- Research Monograms:02
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103. "MHD Unsteady Radiating Memory Convective Flow with Variable Suction", M.V.Ramana Murthy et.al., Int. Jr. Science, Engineering and Technology Research (IJSETR), Volume 3, Issue 11, November 2014.

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105. "Linear Programming Approach For Radiotherapy Treatment Planning", M .V. Ramana Murthy, et.al. Int. Jr. of Science, Technology and Management Vol VII, Jan- 2015, 58-65.

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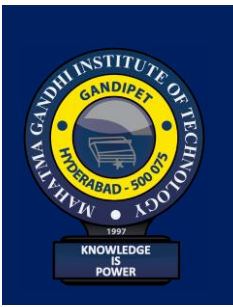- Research Monograms:02
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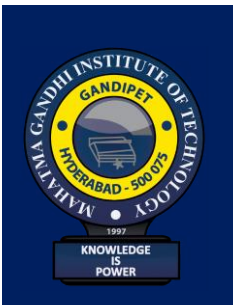- Research Monograms:02
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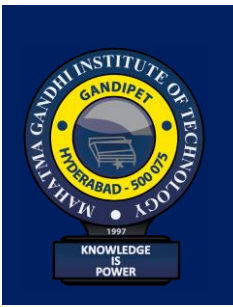- Research Monograms:02
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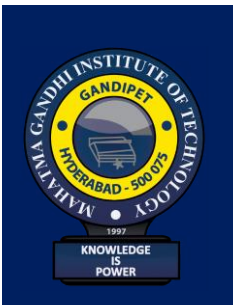- Research Monograms:02
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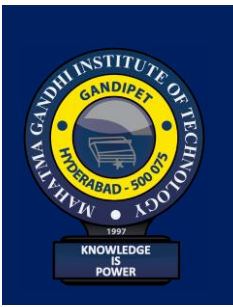- Research Monograms:02
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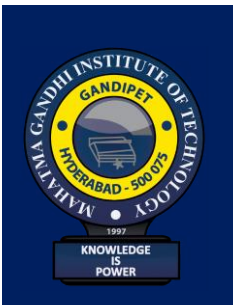- Research Monograms:02
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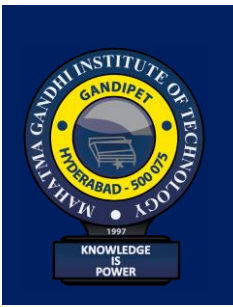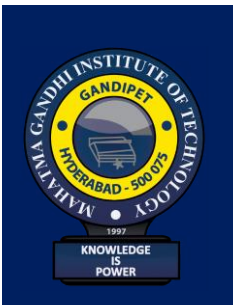- Research Monograms:02
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229. "Harnessing the-state of-The-Art information And Communication Technology For Grassroots Development", M.V. Ramana Murthy et.al. Proc of the Malaysian National Seminar on Science and its Applications in Industry, Feb 2006.

230. "Flow of a Power-law in channel when the Walls are provided with Non-Erodible porous lining", M.V. Ramana Murthy et.al, Bull. Calcutta Math.soc (Communicated).

231. "A survey on Object Oriented Programming Procedure Oriented programming use case studies", M.V.Ramana Murthy, et.al. Int.Jr. Proc. IEE Software Engg.(Communicated).

232. "Image enhancement using Histrograms", M.V. Ramana Murthy et.al Int. Jr. Optical Engineer Society of America (accepted).

233. "Fuzzy logic based search technique for digital libraries" M.V. Ramana Murthy JATAS(Accepted for publication)

234. "Effect of multiple stenosis on couple stress fluid through a tube with non uniform Cross section" M V Ramana Murthy et.al Jr. of Enng. Mathematics(Accepted for publication, Springer Verlog publication).

235. "Perstaltic pumping of a conducting Jeffrey fluid in a vertical porous channel with Heat transfer" M V Ramana Murthy et.al.Jr. Advances in applied Science Research 2011,2(6);439- 453.

236. "Numerical solution of Oscillatory motion of a dusty viscous fluid " M V Ramana Murthy et.al Della "FONDAZIONE GIORGIO RONCHI", Anno LXVI Nov-Dec, 2011,N.6, p.p751-757.

237. "A New Approach to provide security for Network Business running on Information System Network" M V Ramana Murthy et.al. Int. Jr. Applied

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EXPERIENCE - 39+Years
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SUMMARY:
- Publications – 264(J)
- Conferences - 80
- Patents – 07
- Books –
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EVENTS:
- Organized - 13
- Attended -

LET'S MEET ON SOCIAL:

https://scholar.google.com/citations?user=PyVJL5sAAAAJ&hl=en

Mathematics and computing, 2012 (accepted).

238. "Network security solution for Signal interlocking" M V Ramana Murthy et.al. IEEE Proceedings, 2012.

239. "Tracking and Identifying unusual behavior in Cloud Infrastructure of Mobile Computing" M V Ramana Murthy et.al. Int. Jr. of Science Tech. and Management accepted (2013)

240. "Topological Pedestrian Crossing to create walk ablecities "M V Ramana Murthy et.al. Proc.of Int. Conf. on Emerging Trends in Technology and Management pg. 126-133 held at Singapore, 2013.

241. "Railway Safety Management an analytical view" M V Ramana Murthy et.al. Proc. Of Int. Conf. on Emerging Trends in Technology and Management pg. 295-304 held at Singapore, 013.(IEEE)

242. "Peristaltic Pumping Of A Fourth - Grade Fluid under the Effect of a Magnetic Field in an Inclined Channel with Permeable Walls" M V Ramana Murthy et.al. Arabian Jr. of Fluid Mechanics (Communicated).

243. "The influence of Wall thickness and additional mass flux on peristaltic pumping of a Jeffrey fluid", M V Ramana Murthy et.al. Int. Jr. Engg. Research and Tech. Vol. 3 Issue 6, June – 2014.

244. "Study of free Vibrations in Isotropic Poroelastic solid sphere with rigidly fixed conditions" M.V.Ramana Murthy,et.al. Science Direct, Procedia Engineering125 (2015). Elsevier

245. A Finite Difference Approximation for the Influence Of Magnetic Field On Natural Convective Chemically Reacting Jeffrey Fluid Flow Past An Infinite Vertically Inclined 260. Plate Embedded In Porous Medium".M .V. Ramana Murthy, et.al. , IJMMS.Vol.13, No.1(January-June 2017): 215-242

246. "MHD Natural Convective Jeffrey Fluid Couette Flow Past A Vertically Inclined Plate In Presence Of Heat Transfer, Hall Current And Viscous Dissipation A Finite Difference Approach ", M .V. Ramana Murthy, et.al.,IJAMAA.Vol.13, No.1(January-June 2017): PP 79-97

247. "Numerical solution for the Influence Of Thermal Radiation On Free Convective Couette Flow Of Jeffrey Fluid Between Two Vertically Inclined Permeable Plates in Presence of Magnetic Field", M .V. Ramana Murthy, et.al. Comm of Korean Mathematical Society (Communicated)

248. "Effect Of Angle Of Inclination On Free Convective Oscillatory Couette Flow Of Jeffrey Fluid Submitted In Magnetic Field: A Finite Difference Technique", M.V. Ramana Murthy, et.al. Jr. Nigerian Mathematical Society (Communicated)

249. Radiation and chemical reaction effects on MHD free convective heat and mass transfer flow of a viscoelastic fluid past a porous plate with heat generation / absorption, M.V. Ramana Murthy, et.al., Canadian Jr. of Physics (Communicated)

250. Effects of homogenous-heterogeneous reactions on electrically conducting Powell-Erving fluid with variable suction or injection M .V. Ramana Murthy,

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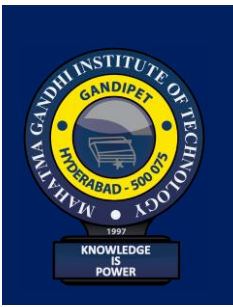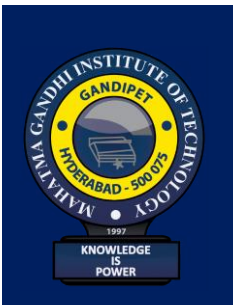- Honors/Awards – EC Member

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et.al., (Communicated).

251. Love wave propagation in a transversely isotropic poroelastic layer immersed in a viscous liquid, M .V. Ramana Murthy, et.al., Acta Mechanica, (Communicated).

252. Mathematical algorithm development for image compression using singular value decomposition, M .V. Ramana Murthy, et. al., International Journal Of Information Technology & Computer Sciences Perspectives, (Accepted-2017).

253. Heart beat monitoring using android application, M .V. Ramana Murthy, et. al., International Journal on Recent and Innovation Trends in Computing and Communication,Volume 8 Issue (July-August 2017

254. Security using colours and Armstrong numbers, M .V. Ramana Murthy, et. al., International Journal Of Information Technology & Computer Sciences Perspectives, .Vol6 No.2, p.p 2968-2978.2017.

255. Effects Of Slip And Heat Transfer On The Peristaltic Flow Of Reactive Viscous Fluid With Temperature Dependent Viscosity, M .V. Ramana Murthy, et. al., Acta Ciencia Indica, Vol XL11M, No. 1, 65,

256. Thermal radiation and chemical reaction effects on MHD flow long a moving vertical porous plate, M V Ramana Murthy et.al.Atti Della Foundzme (accepted).

257. Efficient File Distribution in Mobile Ad Hoc Networks Using Optimal File Replication Protocol, M V Ramana Murthy et.al. American Jr of Engineering Research, vol-7,issue-5, p.p336-339, 2018 (ISSN-2320).

258. Analytical study for unsteady MHD Radiating heat and mass transport in a Darcian porous regime M V Ramana Murthy et.al, Int Jr Basic and applied research(Accepted).

259. An ICT frame work for Green practices (GO GREEN), M V Ramana Murthy et.al, Newman Int Jr of multidisplinary studies, Vol 5, special issue 4, April-2018, p.p 67-71.

260. Supplying and Controlling Water System Using IOT Techniques M V Ramana Murthy et.al, Int Jr Basic and applied research(Accepted).

261. Understanding of Case study concept in Software Engineering M V Ramana Murthy et.al, Int.Jr of Latest trends in Engineering & Technology, vol.10, ISSUE-1, pp175-181, 2018.

262. A Study On Wireless Big Data Enabled Network Architecture, M.V.Ramana Murthy, et.al, IJSTR, Vol 8, ISSUE 12, December 2019. (Scopus), p.p2717 to 2720

263. Predicting the Quality of Service Experienced By the Users Based on the Measurement History of the Network, M.V.Ramana Murthy et.al, IJITEE, Vol.9, ISSUE 2, December 2019, p.p2286 to 2290.

264. A Novel Hybrid Deep Learning on Audio-Video Information Analysis Engine (AVIAE) from Internet for Capturing Videos, M.V. Ramana Murthy et.al, JARDCS, (Press)

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Patents:

1. Buoyancy Effects on MHD Chemically Reacting and Radiating Casson Fluid past a Permeable Stretching Sheet in a Porous Medium, 202141022953, 11-06- 2021
2. Real Time Multi Class Cardio Arrhythmia Classification, Based on DNN Implemented in the IOT Cloud Platform, No.202141038591, DOP:03.09.2021
3. Smart Agriculture using sensors in Internet of Things (IOT), No.202141042980, DOP:22.09.2021
4. Image Processing Technique for Surface Crack Detection in Buildings, No:202141036294, DOP:24.09.2021
5. WSN Framework Internet Of Things (Iot) For Energy Efficient And Reliable Sustainable Agricultural Production, No.202141052788 A, Date of filing of Application :17/11/2021, Publication Date : 03/12/2021.
6. Designing Smarter H Frames To Facilitate Work At Higher Altitudes, No: 202263, 2022
7. Smart Proximity Sensors To Detect Defects Or Obstacles On Rails, No: 202264,2022

Research & Consultancy:

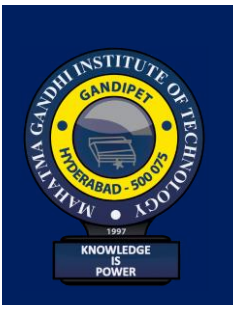## No. of Books/Chapter/Research Monograms Published with details:
1. Network Security: Perspectives and Challenges, Archers & Elevators Publishing House, ISBN:978-81-938565-7-4
2. Perspectives of IOT & Its Applications, Archers & Elevators Publishing House, ISBN: 978-81-948984-4-3

Events Organized:
Conferences:

FDPs/STTPs:

1. One-Week Online International FDP on "Frontiers of Data Science in Trending Technologies" from 9th May- 13th May 2022, Organized by Department of M&H and CSE, MGIT, Hyderabad.

2. One-Week Online International FDP on The Role of Linear Algebra In Machine Learning, Artificial Intelligence & Data Science In Collaboration/ Association with M&H, CSE & IT at MGIT, 29 November to 03 December 2021

3. Two-Day Online International Webinar on Empowering Women A Paradigm Shift in NEP 2020 In Collaboration/ Association with M&H, P&C, CSE and IT at MGIT 08-Jan 2021 to 09th Jan 2021

4. MGIT FDP Faculty of English Innovative Techniques for Effective Teaching Online and Offline, department of M&H, MGIT, 12th June 2020 to 13th June 2020

5. A Two-day online Faculty Development Programme on Managing Sustainability in Turbulent Times, department of M&H, MGIT, 29th July 2020 to 30-July 2020

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6. International Webinar One Week Online FDP on Role of Machine Learning & Data Sciences in AI In Collaboration/ Association with CSE, M&H at MGIT, 28th June 2020 to 02nd July 2020

7. Department Of Mathematics and Humanities Offers A Two Day Online FDP on Applications of Mathematics in Engineering, department of M&H at MGIT, 3rd July 2020 to 4th July 2020

8. International Webinar FDP on Relevance of Mathematics to core-engineering Sciences AI In Collaboration/ Association with M&H, CSE & Other Core Branches of Engineering, 12th October 2020 to 16th October 2020

9. National Workshop on Relevance of Vedic Mathematics to Real World Computing   In Collaboration/ Association with M&H, CSE & IT, MGIT, 24th Sept 2019 to 24th Sept 2019

10. National Seminar On IoT for Real world In Collaboration/ Association with Chaitanya Bharathi Educational Society (CBIT(A) & MGIT) M&H, CSE & IT, 28th October 2019

11. Teacher as Performer, department of M&H at MGIT 21st Dec 2018

12. Machine Learning Through Mathematical Modeling Supported with Python & R-Soft, In Collaboration/ Association with E&ICT –Academy NIT Warangal, from 2nd July 2018 to 07th July 2018

13. A workshop on Communication Skills for Non-teaching staff, department of M&H, MGIT, from 4th June 2018 to 6th June 2018