

MEMORANDUM OF UNDERSTANDING

Between

Dept. of Electronics & Telecommunication Engineering

Government College of Engineering

Aurangabad (M.S.) 431005

AND

Government Institute of Forensic Science

Aurangabad (M.S.) 431004

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[Signature]
Director
Govt. Institute of Forensic Science
Aurangabad.

PREAMBLE:

Government College of Engineering Aurangabad (GECA)-431005 has different departments of engineering disciplines and sciences. The institute is handling the responsibility of training technical and scientific manpower in various areas of importance and is contributing to the rapidly growing scientific and technological knowledge and professional excellence in Science and Technology. The institute is undertaking industrial & applied research and consultancy also.

Government Institute of Forensic Science, Aurangabad (GIFSA)-431004, an Educational Institution exclusively established, funded and run by Higher and Technical Education Department (Govt. of Maharashtra) having address at Caves Road, Aurangabad-431004, India. Government Institute of Forensic Science, Aurangabad is a government institution involved in providing quality education and research in the field of Forensic Science. It runs various courses including B.Sc., M.Sc. and PG Diploma in Forensics and allied disciplines. The Institute has modern and sophisticated instrumentation facilities housed in its total 6 laboratories namely: Forensic Science Laboratory, Forensic Chemistry Lab, Forensic Physics Lab, Forensic Biology Lab, Forensic Psychology Lab and Digital and Cyber Forensic Lab. Few of them are, namely, VSC 6000/HS, ESDA, MVC 1000-Cyanoacrylate fuming chamber, UV-Vis Spectrophotometer, FT-IR Spectrophotometer, GC-MS, PCR and Gel Documentation. Details are available at the website: www.gifsa.ac.in.

Both GECA and GIFSA, now recognizing the importance of research and development in the areas of Forensic Science and Electronics Engineering, appreciating the need for creation of large reservoir of highly qualified manpower in these fields related desiring to club their efforts by pooling their expertise and resources.

INTEND to form a nucleus for promoting excellent quality manpower in the fields of engineering, technology and Forensic and related fields etc.

Now, therefore in consideration of the mutual promises made herein and of good and valuable consideration, the receipt and sufficiency of which both GECA and GIFSA hereby acknowledge, GECA and GIFSA hereby agree to sign a memorandum of understanding (MOU).

SCOPE OF THE MOU:

This MOU details the modalities and general conditions regarding collaboration between Dept. of Electronics & Telecom, Engg. GECA and GIFSA for enhancing the availability of highly qualified manpower in the areas of Forensic Science and Electronics without any disregard to any mechanism evolved and approved by the competent authorities. The areas of cooperation can be extended through mutual consent.



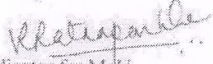
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Director

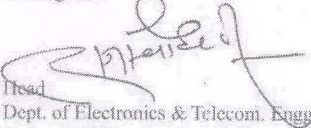
Govt. Institute of Forensic Science
Aurangabad.


CONFIDENTIALITY:

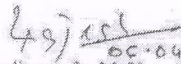
During the tenure of the MOU both GECA and GIFSA will maintain strict confidentiality and prevent disclosure of all the information and data exchanged under the scope of this MOU for any purpose other than in accordance with this MOU. Further both GECA and GIFSA shall put in place adequate and reasonable measures to keep and store confidential information secure so as to prevent any unauthorized use.

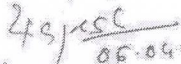
BOTH THE PARTIES DEPT. OF ELECTRONICS & TELECOM. ENGG. GECA & GIFSA ARE ACCEPTING TO HAVE ENTERED INTO THIS AGREEMENT EFFECTIVE AS ON THIS DAY OF EIGHTH MARCH IN THE YEAR TWO THOUSAND AND EIGHTEEN AT AURANGABAD.

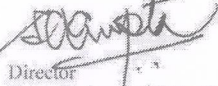

Coordinator for MoU
Dept. of Electronics & Telecom. Engg
Government Engineering College
Aurangabad


Head
Dept. of Electronics & Telecom. Engg
Government Engineering College
Aurangabad

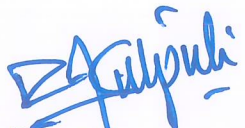

Principal
Government Engineering College
Aurangabad


Coordinator for MoU
Govt. Institute of Forensic Science
Aurangabad


Head
Department of Forensic Science
Govt. Institute of Forensic Science
Aurangabad


Director
Govt. Institute of Forensic Science
Aurangabad




Director
Govt. Institute of Forensic Science
Aurangabad.



Dated: 23/08/2021

Year-wise report on Collaborative work with MoU from Govt. Engineering College, Aurangabad [2018-2021]

Government Engineering College, Aurangabad (GECA)

Government Engineering College is one the leading engineering colleges in the State of Maharashtra. Our Institute has collaborated with the department of electronics and telecommunications engineering of GECA by signing MoU on 6th April 2018 on the following terms and conditions:

- Sharing of facilities, such as laboratory and library for mutual benefits
- Practical training to students of both Institutes in the domain of Multimedia Forensics, Image Processing, and Pattern Recognition.
- Joint organization of National/International Conferences/Symposia/workshops and guidance to students for their dissertation/project work.

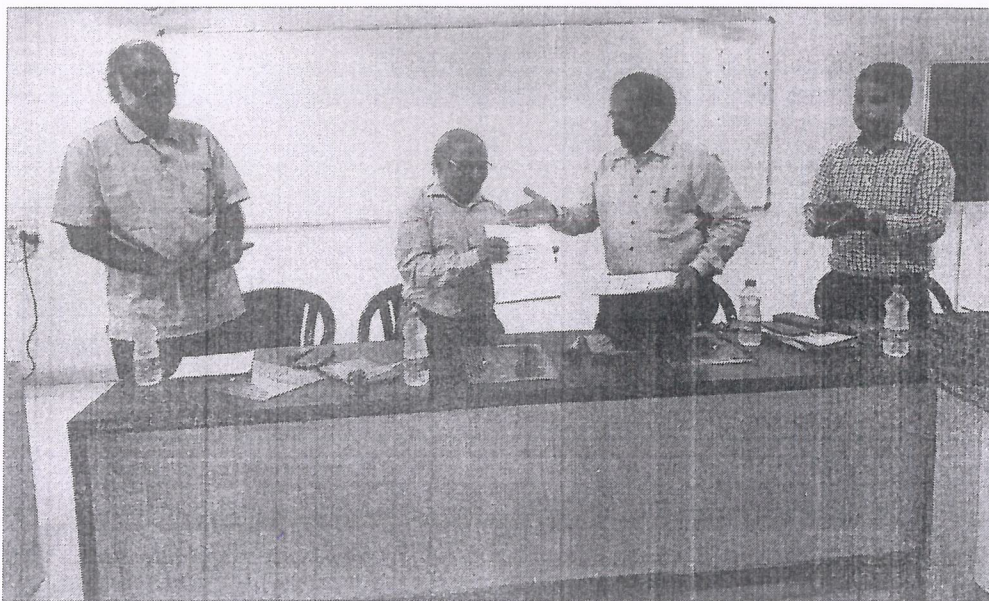


Fig 1: Dr. S.G. Gupta, Director, GIFSA, and Dr. P.B. Murnal, Principal, GECA, Aurangabad exchanging Memorandum of Understanding (MoU)



S.G. Gupta
Director
Govt. Institute of Forensic Science
Aurangabad.

Both Institutes have carried out various activities under the MoU in the last three years. Those were as follows:

- Popular/guest lectures to make students/faculty members aware of the recent advancements in the field of Multimedia Forensics, Image Processing, and Pattern Recognition
- Mutual inputs in curriculum development and design
- Joint guidance of students and research activities

Year-wise activities are enlisted in the following sub-headings:

Activities in 2018-19

The following activities were carried out in 2018-19


- Dr. Rajesh Kumar, Head of the Department of Forensic Science delivered a lecture on Digital Forensics on 06/04/2018 for the students and faculty members of Govt. Engineering College, Aurangabad.
- Dr. Rajesh Kumar, Head of the Department of Forensic Science was invited as a member of the Board of Study of Govt. Engineering College, Aurangabad. The mutual discussion during the meeting helped in designing two courses, one each on Multimedia Forensics and Digital Forensics.

Activities in 2019-20

The following activities were carried out in 2019-20


- Two students of M.E. (Electronics and Telecommunication Engineering) of Govt. Engineering College, Aurangabad, namely, Ms. Mrudul Behare and Mr. Vishal Hadoltikar were attached to the Multimedia Forensics Laboratory of Govt. Institute of Forensic Science, Aurangabad for joint guidance of their master's dissertation under Dr. Rajesh Kumar. The research work resulted in the following publications:
 - Mrudul S. Behare, A.S. Bhalchandra, and **Rajesh Kumar**, "Source Camera Identification using Photo Response Non-Uniformity". In: Proc. IEEE International Conference on Electronics, Communication and Aerospace Technology, 2019, 731-734.
 - Vishal A. Hadoltikar, Varsha R. Ratnaparkhe, and **Rajesh Kumar**, "Optimization of MFCC parameters for mobile phone recognition from audio recordings". In: Proc. IEEE International Conference on Electronics, Communication and Aerospace Technology, 2019, 777-780.

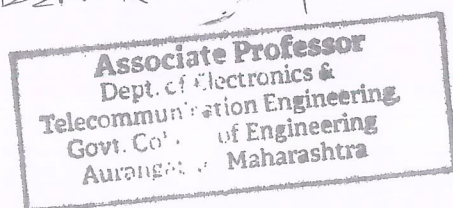


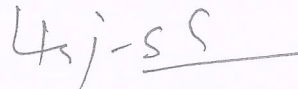

Director
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the following activities were carried out in 2020-21

- The follow-up work of Vishal A. Hadoltikar was carried out and the following work is under communication to a journal:
 - Vishal A. Hadoltikar, Varsha R. Ratnaparkhe, and **Rajesh Kumar**, "Effect of format conversion on source identification from audio recordings: a forensic study".
- An invited expert lecture of Dr. Varsha R. Ratnaparkhe, Associate Professor of Govt. College of Engineering, Aurangabad was organized on "Outcome Based Learning and Accreditation" for the faculty members of the Government Institute of Forensic Science, Aurangabad on 13th August 2020.

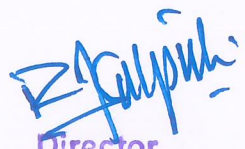

Dr. V. R. Ratnaparkhe




(Dr. RAJESH KUMAR)

Head
Dept. of Forensic Science
Govt. Institute of Forensic Science
Aurangabad. (M.S.)




Director
Govt. Institute of Forensic Science
Aurangabad.