

NEWSLETTER

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GNAN ENTHIRA TIMES

Department of Mechanical Engineering

Editorial board

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Mr.K.Murugan

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Mr.S.Sathish Kumar

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Gnanamani College of Technology

Accredited by NBA and NAAC

Approved by AICTE and Affiliated to Anna University, Chennai

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Vision of the Institute

Emerging as a technical institution of high standard and excellence to produce quality Engineers, Researchers, Administrators and Entrepreneurs with ethical and moral values to contribute the sustainable development of the society.

Mission of the Institute

We facilitate our students

- ⇒ To have in-depth domain knowledge with analytical and practical skills in cutting edge technologies by imparting quality technical education.
- ⇒ To be industry ready and multi-skilled personalities to transfer technology to industries and rural areas by creating interests among students in Research and Development and Entrepreneurship.

Vision of the Department

To produce competent Mechanical Engineer capable of working in an interdisciplinary environment contributing to benefits of society through innovation, leadership and entrepreneurship.

Mission of the Department

- * Imparting the highest quality education through state-of-the-art facilities to build students' professional practice and make them globally competitive Mechanical Engineers by enhancing their knowledge.
- * Fostering professional and ethical values and training the students to build leadership and entrepreneurship qualities for their career development.
- * Undertaking research and developmental activities to provide service for the sustainable development of the society.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Graduates of Mechanical Engineering will

PEO 1: Apply their mechanical and allied knowledge to address technical and societal problems with creativity and ethical values.

PEO 2: Design and analyse mechanical systems with strong fundamentals and work in synchronisation with industries and research organisations as team members on multi-disciplinary projects

PEO 3: Seek out positions of leadership actively within their profession and their community through lifelong learning.

PROGRAM SPECIFIC OUTCOMES (PSOs)

Graduates of the program will be able to

PSO-1: Apply principles of basic sciences, machine design, manufacturing, thermal engineering and management to identify, formulate and solve real time problems and societal issues for the sustainable development.

PSO-2: Develop their abilities to qualify for Employment, Higher studies and Research in Mechanical Engineering.

PROGRAM OUTCOMES (POs)

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

GUEST LECTURE PROGRAMMES ORGANIZED

- ◆ On 23rd January, 2020 a guest lecture program conducted in the title of “Opportunities in Elevator Technologies”, Chief Guest Mr.K.G.Guna, Head, from Christiane Sharp line (P) Ltd., Chennai.



- ◆ On 6th February, 2020 a guest lecture program conducted in the title of “Higher studies, organized by study monk, Chennai.

- ◆ On 22nd, February, 2020 a guest lecture program conducted in the title of “Nuclear Power Program of India”, chief guest Mr..Arunkumar, Sr.Production Engineer, BHEL – Trichy.
- ◆ On 24th February, 2020 a guest lecture program conducted in the title of “Future Scenario of Electric Vehicles in India” Chief guest Dr.Udhyakumar, Professor and Head of the Department, Mechanical, NIT, Trichy.



- ◆ On 29th February, 2020 a guest lecture program conducted in the title of “Future Challenges for Young Engineers in Steel Industry”, Chief Guest Dr.K.Muruga Bhoopathy, Deputy General Manager, Salem Steel Plant.





◆ On 3rd March, 2020, a guest lecture program conducted in the title of “Fire & Safety”, by National Institute of Fire Engineering and Safety management, Salem.



◆ On 14th March, 2020 a guest lecture program conducted in the title of “Scope in Agriculture for Engineering students”, chief guest Mr. S.Saravanan, HR Training, VST trillers, Bangalore.



◆ On 6th March, 2020 a guest lecture program conducted in the title of “Introduction to hydro Power Generation”, Chief Guest Mr.V.Sundararajan, Senior Manager, Hydro Training Institute and Research centre, Erode.



◆ On 10th March, 2020 a guest lecture program conducted in the title of “Hydro Power Plant Mechanical Auxiliaries”, Chief Guest Dr.N.Nagarani, Assistant Engineer, Hydro Training Institute and Research Centre, Bhavani.



WEBINARS' ORGANIZED

- * Organized a webinar on “Recent Trends in Renewable Energy Sources” on **26.05.2020** from 10.00 am to 11.15 am, Resource person Prof.Dr.M.Babu, Department of Mechanical Engineering, Narasimha Reddy Engineering College, Telangana.
- * Organized a webinar on “Application of Six Sigma Concepts in the Engineering Industries” on **28.05.2020** from 10.00 am to 11 am, Resource person Dr.M.Natarajan, Professor and R&D Consultant, Department of Mechanical Engineering, Adithiya Institute of Technology, Coimbatore.
- * Organized a webinar on “Composite materials – Introduction, Application & Future” on **29.05.2020** from 10.00 am to 11.15 am, Resource person

Dr.V.R.Arun Prakash, Founder & CEO of M/S, Metro Composites Research and development centre, Surapet, Chennai.

- * Organized a webinar on “Research Methodology” on **31.05.2020** from 5.00 pm to 6.30 pm, Resource person Dr.S.S.manikandasaran, Associate Director, Department of Computer Science, Adaikalamatha College, Thanjavur.
- * Organized a webinar on “How to Identify the right journal and self-indexed?” on **03.06.2020** from 10.00 am to 11.15 am, Resource person Dr.Vairavel Madeshwaren, Research and Development Head, Kalivani Publications and Research Centre, erode.

STUDENTS ACTIVITIES – SYMPOSIUM/SEMINAR/WORKSHOP ATTENDED

- ◆ Mr.M.Manivel of second year student participated in the one day workshop on Artificial Intelligence in Robotics at Info Institute of Technology, on 07.02.2020 at Coimbatore.
- ◆ Mr.M.Karthikeyan, of second year

student participated in the one day workshop on Artificial Intelligence in Robotics at Info Institute of Technology, on 07.02.2020 at Coimbatore.

◆ Mr.R.Maheshwaran of second year student participated in the one day workshop on Artificial Intelligence in Robotics at Info Institute of Technology, on 07.02.2020 at Coimbatore.

◆ Mr.A.K.Moganasundar, Second Year Students has actively participated in the Webinar on “Composite Materials – Introduction, Application and Future” held on 29.05.2020 organized by Department of Mechanical Engineering at Gnanamani College of Technology.

STUDENTS' INDUSTRIAL VISIT

Students of IV Year and III year, Department of Mechanical Engineering went for a industrial visit to **HMT MACHINE TOOLS LIMITED**, Ernakulum on 25.01.2020. From this industrial visit students are easily understand the how to manufacture and assemble the automatic and semi automatic lathe, and also learned about foundry section real time application.



Students of IV year, Department of Mechanical Engineering went for a industrial visit to TRACO CABLE COMPANY LIMITED, Ernakulum on 25.01.2020. From this industrial visit students are easily understand how make a wire based on commercial and domestic purpose.



FACULTY ACTIVITIES – FACULTY DEVELOPMENT PROGRAMME (FDP)

- * Mr.M.Selvaraj has participated in **5 Day Faculty Development Webinar programme** on “Emerging Effective Digital Tool for Teaching Pedagogy “from **25.05.2020 to 29.05.2020** organized by the Internal Quality Assurance Cell (IQAC) at Gnanamani College of Technology.
- * Mr.M.Arther Clive has participated in **5 Day Faculty Development Webinar programme** on “Emerging Effective Digital Tool for Teaching Pedagogy “from **25.05.2020 to 29.05.2020** organized by the Internal Quality Assurance Cell (IQAC) at

Gnanamani College of Technology.

- * Mr.R.Alamuthu has participated in **5 Day Faculty Development Webinar programme** on “Emerging Effective Digital Tool for Teaching Pedagogy “from **25.05.2020 to 29.05.2020** organized by the Internal Quality Assurance Cell (IQAC) at Gnanamani College of Technology.
- * Mr.C.Alwin Christo has participated in **5 Day Faculty Development Webinar programme** on “Emerging Effective Digital Tool for Teaching Pedagogy “from **25.05.2020 to 29.05.2020** organized by the Internal Quality Assurance Cell (IQAC) at Gnanamani College of Technology.
- * Mr.S.Nandhagopal has participated in **5 Day Faculty Development Webinar programme** on “Emerging Effective Digital Tool for Teaching Pedagogy “from **25.05.2020 to 29.05.2020** organized by the Internal Quality

Assurance Cell (IQAC) at Gnanamani College of Technology.

- * Mr.Mohameed Meeran has participated in **5 Day Faculty Development Webinar programme** on “Emerging Effective Digital Tool for Teaching Pedagogy “from **25.05.2020 to 29.05.2020** organized by the Internal Quality Assurance Cell (IQAC) at Gnanamani College of Technology.
- * Mr.S.Praveemkumar has participated in **5 Day Faculty Development Webinar programme** on “Emerging Effective Digital Tool for Teaching Pedagogy “from **25.05.2020 to 29.05.2020** organized by the Internal Quality Assurance Cell (IQAC) at Gnanamani College of Technology.
- * Dr.N.Balakrishnan has attended the one week **Faculty Development Programme** on “Engineering and Management Teaching Pedagogy – an Industry Perspective” from **11.05.2020 to 16.05.2020** organized by Department of Management

Studies and Mechanical Engineering at Sri Sai Ram Institute of Technology.

- * Mr.S.Krishnakumar has attended the one week **Faculty Development Programme** on “Engineering and Management Teaching Pedagogy – an Industry Perspective” from **11.05.2020 to 16.05.2020** organized by Department of Management Studies and Mechanical Engineering at Sri Sai Ram Institute of Technology.
- * Mr.R.Raja has attended the one week **Faculty Development Programme** on “Engineering and Management Teaching Pedagogy – an Industry Perspective” from **11.05.2020 to 16.05.2020** organized by Department of Management Studies and Mechanical Engineering at Sri Sai Ram Institute of Technology.
- * Mr.D.Vimalkumar has attended the one week **Faculty Development Programme** on “Engineering and Management Teaching Pedagogy – an Industry Perspective” from **11.05.2020 to 16.05.2020** organized by Department of Management Studies and Mechanical Engineering at Sri Sai Ram Institute of

Technology.

- * Mr.N.Dileepan has attended the one week **Faculty Development Programme** on “Engineering and Management Teaching Pedagogy – an Industry Perspective” from **11.05.2020 to 16.05.2020** organized by Department of Management Studies and Mechanical Engineering at Sri Sai Ram Institute of Technology.
- * Mr.K.A.Naveenkumar has attended the one week **Faculty Development Programme** on “Engineering and Management Teaching Pedagogy – an Industry Perspective” from **11.05.2020 to 16.05.2020** organized by Department of Management Studies and Mechanical Engineering at Sri Sai Ram Institute of Technology.
- * Mr.A.Aravinth has attended the one week **Faculty Development Programme** on “Engineering and Management Teaching Pedagogy – an Industry Perspective” from **11.05.2020 to 16.05.2020** organized by Department of Management Studies and Mechanical Engineering at Sri Sai

Ram Institute of Technology.

- * Mr.P.Kannan has attended the one week **Faculty Development Programme** on “Engineering and Management Teaching Pedagogy – an Industry Perspective” from **11.05.2020 to 16.05.2020** organized by Department of Management Studies and Mechanical Engineering at Sri Sai Ram Institute of Technology.
- * Mr.R.Raja has actively participated in the **Five Days Faculty Development Programme (Online Mode)** on “Introduction to Finite Element Analysis” from **11.05.2020 to 15.05.2020** organized by Department of Mechanical Engineering at Panimalar Institute of Technology.
- * Mr.N.Sivakumar has actively participated in the **Five Days Faculty Development Programme (Online Mode)** on “Introduction to Finite Element Analysis” from **11.05.2020 to 15.05.2020** organized by Department of Mechanical Engineering at Panimalar Institute of Technology.
- * Mr.M.Prabhu has actively participated in the **Five Days**

Faculty Development Programme (Online Mode) on “Introduction to Finite Element Analysis” from **11.05.2020 to 15.05.2020** organized by Department of Mechanical Engineering at Panimalar Institute of Technology.

- * Mr.Krishnakumar has actively participated in the **Five Days Faculty Development Programme (Online Mode)** on “Introduction to Finite Element Analysis” from **11.05.2020 to 15.05.2020** organized by Department of Mechanical Engineering at Panimalar Institute of Technology.
- * Dr.N.Balakrishnan has participated in the **5 Days FDP** on “Modeling, Techniques and control on Electric Vehicle during **25.05.2020 to 29.05.2020** organized by Department of Electrical and Electronics Engineering.
- * Dr.N.Balakrishnan has attended the **AICTE sponsored FDP** on “Recent Trends in Driverless Electric Vehicle Technologies” from **24.11.2019 to 07.12.2019** organized by the Department of Mechanical Engineering at SRM Institute of Science and Technology.

- * Mr.C.Thiruvassagam has attended the **AICTE sponsored FDP** on “Recent Trends in Driverless Electric Vehicle Technologies” from **24.11.2019 to 07.12.2019** organized by the Department of Mechanical Engineering at SRM Institute of Science and Technology.
- * Mr.R.Sri Sabarinathan has attended the **AICTE sponsored FDP** on “Recent Trends in Driverless Electric Vehicle Technologies” from **24.11.2019 to 07.12.2019** organized by the Department of Mechanical Engineering at SRM Institute of Science and Technology.
- * Mr.P.Manikandan has attended the **AICTE sponsored FDP** on “Recent Trends in Driverless Electric Vehicle Technologies” from organized by the Department of Mechanical Engineering at SRM Institute **24.11.2019 to 07.12.2019** of Science and Technology.
- * Mr.V.P.Karthik has attended the **AICTE sponsored FDP** on “Recent Trends in Driverless Electric Vehicle Technologies” from **24.11.2019 to 07.12.2019** organized by the Department of Mechanical Engineering at SRM Institute of Science and Technology.
- * Mr.M.Gokul has attended the **AICTE sponsored FDP** on “Recent Trends in Driverless Electric Vehicle Technologies” from 24.11.2019 to 07.12.2019 organized by the Department of Mechanical Engineering at SRM Institute of Science and Technology.
- * Mr. Sachin S Raj has attended the **AICTE sponsored FDP** on “Recent Trends in Driverless Electric Vehicle Technologies” from **24.11.2019 to 07.12.2019** organized by the Department of Mechanical Engineering at SRM Institute of Science and Technology.
- * Mr.J.Mahendrarvarman has attended the **AICTE sponsored FDP** on “Recent Trends in Driverless Electric Vehicle Technologies” from **24.11.2019 to 07.12.2019** organized by the Department of Mechanical Engineering at SRM Institute of Science and Technology.

Funded Project

Dr.P.Arulmouzhi, Professor, Department of Mechanical Engineering have received the fund of Rs.15,66,667/- trough AICTE-MODROB Rural project.

**Department of Mechanical Engineering
CNC Machines Lab – Centre of Excellence
CNC Turning Machine (SJE 10 LM) – Asset Value**

S. No.	Description	Amount (in Rs.)
1.	Funded through AICTE-MODROB Rural (File No: 84-130/RIFD/MODROB/Rural/Policy-1/2019-20)	Rs.15,66,667
2.	Funded through Gnanamani College of Technology	Rs.6,87,28
Total asset value		Rs. 22,53,948



STUDENT AWARDS

Mr. E.Kuralarasan, Third Year, Mechanical Engineering student, has participated in the event of Photography at Knowledge Institute of Technology, Salem and secured Second Place with a cash prize. The Management, Principal, Faculties and Students congratulated on his achievement.



Mr. M.R.Pragadiswarar, Third Year, Mechanical Engineering student, has participated in the event of Photography at Sona Group of Institutions, Salem and secured First Place with a cash prize. The Management, Principal, Faculties and Students congratulated on his achievement.

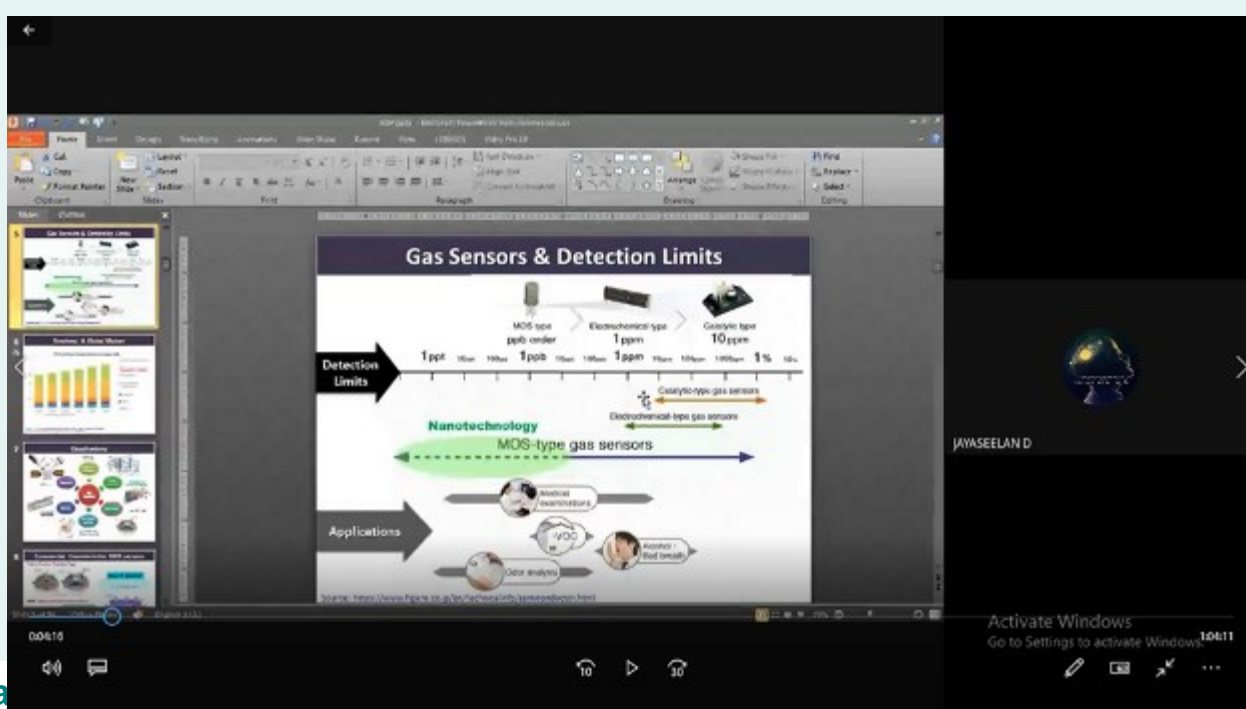
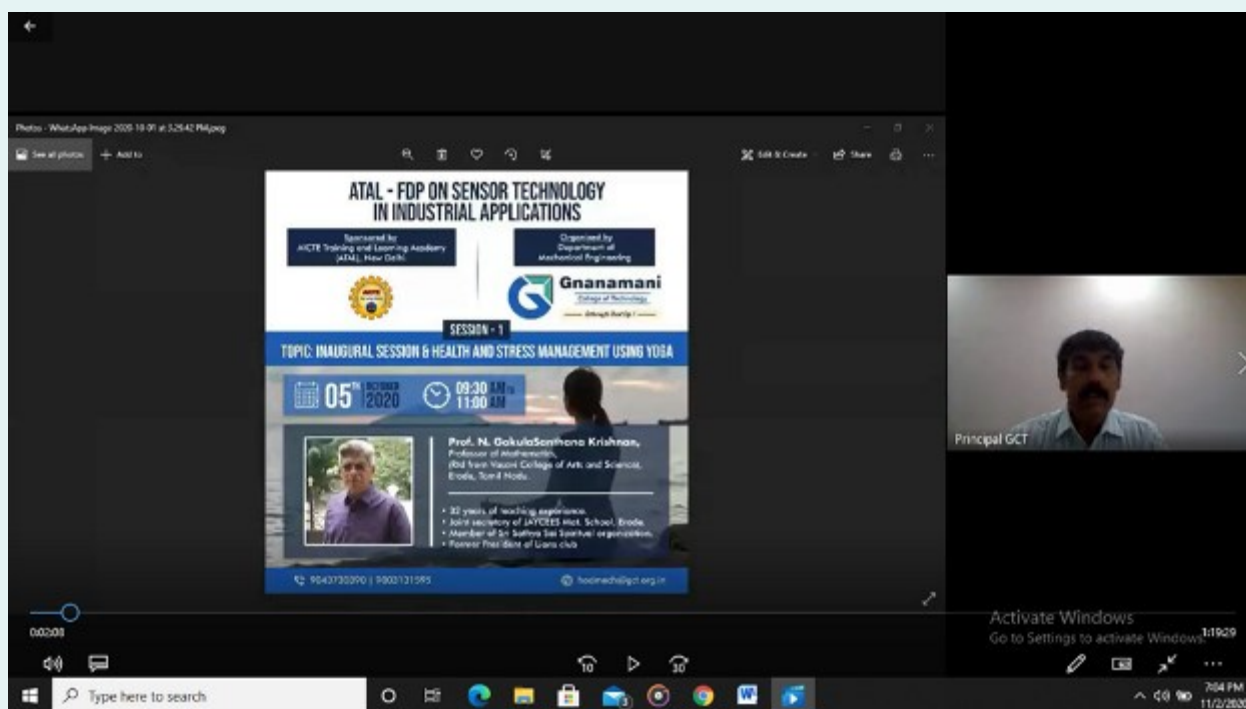
Short film Contest Winner

Our final year student V.Agathiyan is the Winner of Short Film Contest conducted at our college Annul Day celebration's 2020 for his short film "Perazhagi".



FDP Organized

AICTE Teaching and Learning sponsored 5 days Faculty Development Programme on “**Sensor Technology for Industrial Applications**” was conducted from 5th to 9th October 2020 in which around 188 participants from different parts of the country participated.



Best Faculty Awards

Mr.S.Saravanan, Associate Professor & Mr. C.Thiruvassagam, Assistant Professor, Department of Mechanical Engineering have won the Best Faculty Award at the ESN awards function held at Chennai on 28th September 2019.



Young Researcher Award

Mr. Sachin S Raj, Assistant Professor, Department of Mechanical Engineering have won the Best Teachers' Award at the ESN awards function held at Chennai on 28th September 2019.



Congratulations!

Editorial Board

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We are Allied with the Pioneers



Ashok Leyland

**CADD
CENTRE**
Skills Driven. Job Led



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Ideas That Connect...



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