



# GANESH COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)  
Attur Main Road, Mettupatti, Salem - 636 111, Tamilnadu, India  
Phone: 0427 - 2211212, +91 9865440414  
E-Mail: principal@ganeshenggcollege.org      www.ganeshenggcollege.org

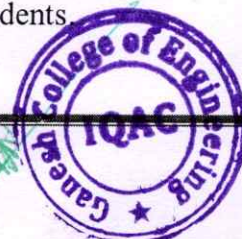
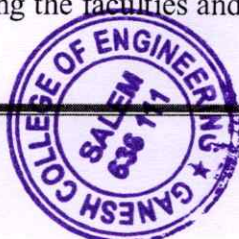


## INSTITUTION VISION

To be an Institution of excellence in Engineering and to impart high quality Education and Training to its students to make them World-class competent and ethical Engineering professionals with a concern for the society.

## MISSION

- The Institution strives to offer value based education to the students with latest technology.
- To promote them professionally and technically qualified.
- To provide right ambience and opportunities for the students with Industry Institution interactions.
- To develop into creative, talented and globally competent professionals.
- To promote research and development in Engineering and Technology for the benefit of the society.
- To inculcate ethical values among the faculties and the students



## 1. About the Institute

Ganesh College of Engineering was established in a well-planned campus with pollution free environment. The College were spread on a sprawling serene land and located on the Salem to Attur Main Road Mettupatti 28 Km from Namakkal, 21 Km from Salem. The College are easily accessible from all major cities by road and railway Networks.

Ganesh College of Engineering is a Division of Sri Ganesh Educational and Charitable Trust. The aim of the GCE is to provide quality Technical Education in order to develop a Good Talented Skills for employability to succeed in the National and International Companies. In the fast-changing global educational scenario, applying technology-driven, value-based learning is a challenge.

Most of the promoters have rich experience in Teaching, Research and Administration of Engineering Institutions with National and International Exposure. The composition of the team itself is a testimony to the Quality of Education offered at GCE. Most of the promoters themselves directly engage in teaching and career Moulding of students.

To be a world class institution to impart value and need based professional education to the aspiring youth and carving them into disciplined world class professionals who have the quest for excellence, achievement orientation and social responsibilities.

To Nurture talent, Entrepreneurship, All-round personality and value system among the students and to foster global competitiveness among students.

To pursue global standards of excellence in all our Endeavours namely teaching, research, consultancy, continuing education and support functions.



## General Information

Ganesh College of Engineering is becoming a shining example of 'inclusive' culture providing quality education to students belonging to socially deprived groups. In this sense, this college proves to be a forerunner to the principle of social justice that was powerfully enunciated and enshrined in the constitution of Indian Republic. It aims at producing "Industry Ready World Class Engineers".

Name & Address of the College		Ganesh College of Engineering, Attur Main Road, Mettupatti, Salem-636 111.
Name of the Principal of the College, along with Tel. No. and e-mail ID		<b>Dr.M.SUBASCHANDRABOSE, M.Tech, Ph.D.,</b> Email : principal@ganeshenggcollege.org Tel.No:9865440414.
Year of Establishment		2011
Departments and Program offered		
S. No.	Department	Title of the Programme offered
1	Biomedical Engineering	B.E. in Biomedical Engineering
2	Civil Engineering	B.E. in Civil Engineering
3	Computer Science and Engineering (CSE)	B.E. in Computer Science and Engineering
4	Electronics and Communication Engineering ( E & C )	B.E. in Electronics and Communication Engineering
5	Mechanical Engineering	B.E. in Mechanical Engineering
6	Electrical and Electronics Engineering ( E & E )	B.E. in Electrical and Electronics Engineering
7	Information Technology ( IT )	B.E. in Information Technology
8	Artificial Intelligence and Data Science	B.E. in Artificial Intelligence and Data Science



## 1. Academic and Administrative Audit (AAA)

The main objective of the audit is to review, assess, and evaluate the performance in domains of teaching-learning process, research, extra-curricular and administrative aspects pertaining to departments of the institution.

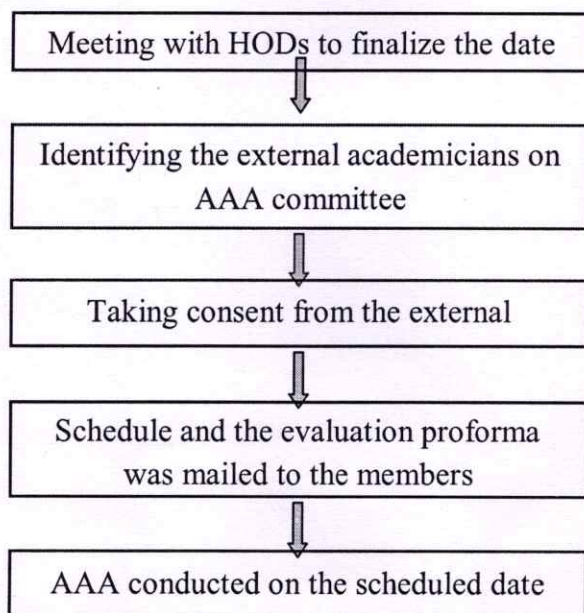
The review process is usually carried out by internal committee members and the external academicians. As a part of the audit process, the IQAC has structured a proforma for the evaluation based on the Criteria specified by NAAC. The criteria-wise evaluation of the department includes:

- i. Course content
- ii. Teaching - Learning Process
- iii. Examination and Evaluation system
- iv. Results
- v. Other activities
- vi. Infrastructure
- vii. Department Administration

The list of documents and proforma for the department level evaluation is given as Appendix-A. The list of documents and facilities for verification and the proforma for the institute level is given as Appendix-B.

### Process Involved:

The process involved for the AAA by the external members is given below.



As per the names suggested and their consent, Academic and Administrative Audit Committee for the year 2023-2024 consisting of the following members was constituted by the Principal:

S.No	Dept. to visit	Name of the External Member	Designation	College/Industry	Position
1.	Mechanical Engg.	Dr.D.Lavanya	Assistant professor	GCE, Salem	Chairman
2.	CSE	Dr. P.Tharani	Assistant Professor	GCE, Salem	Member
3.	ECE	Dr. R. Sridhar	Professor	REC, Chennai	Member
4.	EEE	Dr. J. S. Christy Mano Raj	Professor	GCE - Salem	Member
5.	Civil Engg.	Dr. K. Ramesh	Professor	GCT - Coimbatore	Member
6.	Biomedical Engg.	Dr.M.Perumal Samy	Professor	NIT, Trichy	Member
7.	S & H	Dr. V. Ragupathi	Professor	NIT - Surat	Member

The meeting of AAA committee was fixed on 10.08.2023. The AAA committee was assisted by the IQAC members for conducting the audit. The Committee had a formal meeting with the Principal, Head of Departments and the coordinators during which Principal presented the overview of the institute, developments and the achievements made. Members of the Committee were briefed about the objective of the audit and the procedure involved.



The members visited the departments, the infrastructural facilities in the department such as classrooms, laboratories and interacted with the teaching staff and the technical staff to know the academic and administrative performance. All the related documents were presented to the members. After completing all stages of inspection and interactions in the department, AAA Report covering the observations was prepared for the respective departments by the member. Individual department evaluation sheets are enclosed with this report.

Also, the members visited the central facilities such as Examination section, Computer center, placement cell, library and auditorium, and had interactions with the coordinators. Other general facilities were also verified.

The Committee after completing all stages of inspection and interactions prepared the AAA report for the college covering the summarized observations and recommendations.

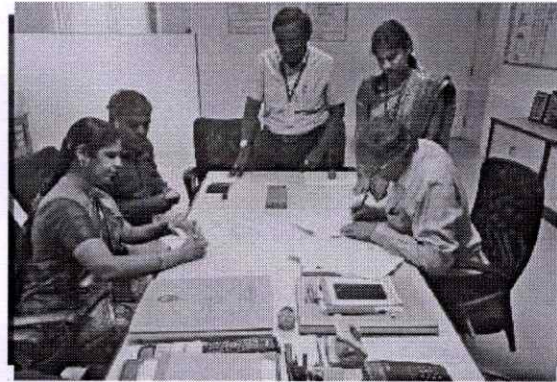
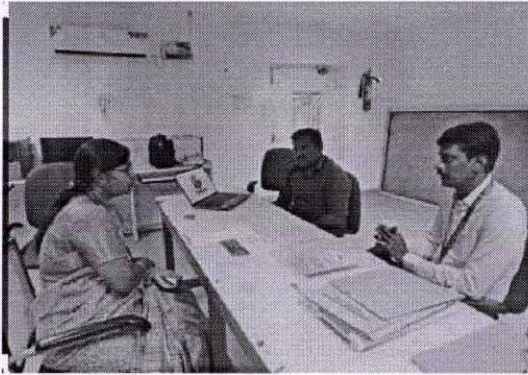
**Academic and Administrative Audit Process and schedule:**

**Date: 10.08.2023**

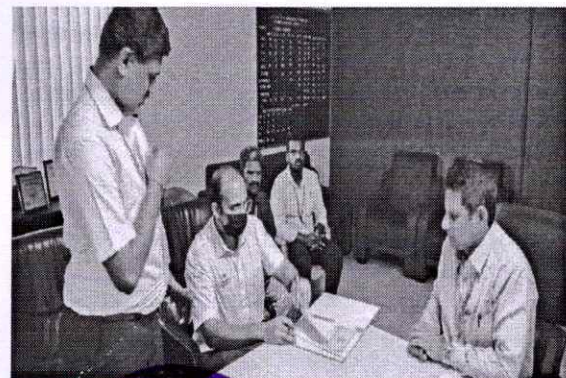
Time	Activity	
10.15 am - 10.30 am	Welcome and briefing by Principal Venue: IQAC Hall	Welcome and briefing by Principal Regarding the objective of the audit. Venue: IQAC Hall
10.45 am to 12.45 pm	Visit to the department by the members	<ol style="list-style-type: none"> <li>1. Meeting with the faculty members and introduction.</li> <li>2. Visit to the facilities in the department: Classrooms and labs, any other facility related to advanced learning</li> <li>3. Verification of the documents.</li> <li>4. Interaction with the faculty and technical staff after the verification process.</li> <li>5. Department report preparation.</li> </ol>
1 pm to 1.45 pm	Visit to central facilities- Library, Placement, CC, Exam section and main office	<ol style="list-style-type: none"> <li>1. Interaction with the respective heads.</li> <li>2. Interaction with Deans.</li> <li>3. Verification of central documents.</li> </ol>
2 pm to 2.30 pm	Lunch	Lunch
Post lunch	1. Report preparation	College report writing
	2. Exit meeting	Exit meeting with Principal, Deans, HoDs and coordinators.



**Glimpses of AAA Committee visit: Meeting with principal, HoDs and coordinators**



**At the departments: Verification of the documents and Interaction with the faculty members**



## 2. Report of AAA committee:

<b>Governance</b>	Governing Body notification	✓Yes / No
	Academic Council notification	✓Yes / No
	Finance Committee notification	✓Yes / No
	BoS notification	✓Yes / No
	Proceedings of Governing Body meeting	✓Yes / No
	Proceedings of Academic Council meeting	✓Yes / No
	Proceedings of Finance committee meeting	✓Yes / No
	Proceedings of BoS meeting	✓Yes / No
	Examination section	✓Yes / No
	IQAC and its proceedings	✓Yes / No
	Anti-Ragging Committee	✓Yes / No
	Anti-Sexual Harassment Committee/College Internal Complaint Committee	✓Yes / No
	Grievance Redressal Committee	✓Yes / No
	SC/ST/OBC Cell	✓Yes / No
	Alumni Association	✓Yes / No
	Office Automation (ERP software)	✓Yes / No
	Personal files	✓Yes / No
	Budget sanctioned and Audit report	✓Yes / No
	Student scholarship details	✓Yes / No
	Institution Website	✓Yes / No
Biometric Attendance System	✓Yes / No	
Notice Boards	✓Yes / No	



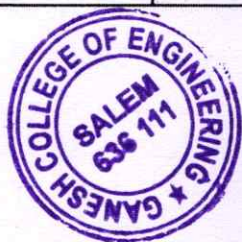


<b>Other facilities</b>	CCTV Security	✓Yes / No
	Projectors in Class Rooms	✓Yes / No
	Fire Extinguisher	✓Yes / No
	Medical facility	✓Yes / No
	Canteen facility	✓Yes / No
	Sports facility	✓Yes / No
	Hostels	✓Yes / No
	Vehicle Parking	✓Yes / No
	Xerox facility	✓Yes / No
	Backup Electric Supply	✓Yes / No
	Bank/ATM	✓Yes / No
	Transport Facility	✓Yes / No
	Sewage Disposal System	✓Yes / No
	Drinking water facility	✓Yes / No
	Solid Waste Management	✓Yes / No
	e-waste Management	✓Yes / No
	Rain Water Harvesting	✓Yes / No
Green Campus Initiatives	✓Yes / No	



**Scores for AAA**

<b>Criteria</b>	<b>Key Indicators (KIs)</b>	<b>Max. marks</b>
<b>1. Curricular Aspects</b>	1.1 (a) Curriculum Design and Development	25
	1.1. (b) Curricular Planning and Implementation	25
	1.2 Academic Flexibility	40
	1.3 Curriculum Enrichment	40
	1.4 Feedback System	20
	<b>Total</b>	<b>150</b>
<b>2. Teaching-Learning and Evaluation</b>	2.1 Student Enrolment and Profile	20
	2.2 Catering to Student Diversity	30
	2.3 Teaching-Learning Process	50
	2.4 Teacher Profile and Quality	50
	2.5 Evaluation Process and Reforms	50
	2.6 Student Performance and Learning Outcomes	50
	2.7 Student satisfaction Survey	50
	<b>Total</b>	<b>300</b>
<b>3. Research, Innovations and Extension</b>	3.1 Promotion of Research and Facilities	20
	3.2 Resource Mobilization for Research	10
	3.3 Innovation Ecosystem	10
	3.4 Research Publications and Awards	30
	3.5 Consultancy	10
	3.6 Extension Activities	50
	3.7 Collaboration	20
	<b>Total</b>	<b>150</b>



<b>4. Infrastructure and Learning Resources</b>	4.1 Physical Facilities	30
	4.2 Library as a Learning Resource	20
	4.3 IT Infrastructure	30
	4.4 Maintenance of Campus Infrastructure	20
	<b>Total</b>	<b>100</b>
<b>5. Student Support and Progression</b>	5.1 Student Support	30
	5.2 Student Progression	30
	5.3 Student Participation and Activities	30
	5.4 Alumni Engagement	10
	<b>Total</b>	<b>100</b>
<b>6. Governance, Leadership and Management</b>	6.1 Institutional Vision and Leadership	10
	6.2 Strategy Development and Deployment	10
	6.3 Faculty Empowerment Strategies	30
	6.4 Financial Management and Resource Mobilization	20
	6.5 Internal Quality Assurance System	30
	<b>Total</b>	<b>100</b>
<b>7. Institutional Values and Best Practices</b>	7.1 Institutional Values and Social Responsibilities	50
	7.2 Best Practices	30
	7.3 Institutional Distinctiveness	20
	<b>Total</b>	<b>100</b>
	<b>TOTAL SCORE</b>	<b>1000</b>



भारतीय गैर न्यायिक

बीस रुपये

रु.20

Rs.20

TWENTY  
RUPEES

INDIA

INDIA NON JUDICIAL

கமலிபூநாடு தமில்நாடு TAMIL NADU

SRI GANESH EDUCATIONAL  
AND CHARITABLE TRUST.  
SALEM.

₹20.

20AC 819052

G. Jeyaraman  
கா.சுந்தரம், மு.நாள்.வி.  
132/2, மேட்டுப்படி, தாதுவா.  
அய்யாத்தியாயக்டண்டு.  
சேலம்.

L.No : 6/SLM(E)/2008

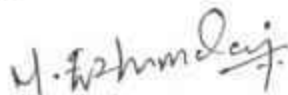
**Memorandum of Understanding**

This agreement is entered into on 19.05.2017 between GANESH COLLEGE OF ENGINEERING, Attur Main Road, Mettupatti, near Government High School, Salem, Tamil Nadu 636111. Represented by Dr.M.SUBAS CHANDRABOSE, M.Tech, Ph.D., PRINCIPAL, and WINGS TECHNOCRATS TRAINING INSTITUTION having its registered office at 12/1, Arthanari Nagar, 2<sup>nd</sup> Floor, New Bus Stand, Saravana Scan Opp, Salem- 626004.

Whereas the first party intends to appoint the second party to impart industry demand and Project-oriented skill training (software and hardware training) during the course of engagement of the students of Ganesh college of engineering. The first party is in agreement with the second party on the following terms and conditions.

**Introduction**

1. This agreement is aimed at creating a Bipartite Business Relationship among the parties to offer and promote a skill-based course in Placement Training during the course of engagement to the students of "Ganesh College of Engineering".



2. This agreement will be effective from 19.05.2017 and will expire on 19.05.2027 and be renewable for further periods as may be mutually agreed upon between the parties deem fit and proper to be mutually decided.
3. The parties agree that the training course will be delivered at the premises of the First Party.
4. The resource persons and trainers belonging to Second Party shall ensure that the courses are participative, interactive and a two-way learning experience for the students.
5. The parties shall aim to create an environment that is exciting and interactive for the purpose of holistic learning experience.

**Terms and Conditions for Business Engagement**

1. The first party, i.e., "Ganesh College of Engineering" shall permit the students to participate progressively in the training provided at premises of the First Party.
2. The first party undertakes to offer the courses of the second party as a "software and hardware training" to the students pursuing the courses with a cost mutually agreed.
3. The first party agrees to appoint a SPOC (Single Point of Contact) for a seamless delivery of the courses.
4. The first party agrees to confirm the days of the week scheduled for the corresponding years of study on mutually agreed time schedule.
5. The second party will schedule the class as per the first party requirements.

IN WITNESS WHEREOF, the parties to this agreement have affixed their signatures on the day, month and year stated above.

Signed by, for and on behalf of  
Ganesh College of Engineering



Authorized Signatory  
**Dr.M.SUBAS CHANDRABOSE, M.Tech, Ph.D.,**  
**PRINCIPAL PRINCIPAL**

Ganesh College of Engineering,  
Attur Main Road, Mettupatti,  
SALEM-636 111.

Witness:

Signed by, for and on behalf of  
Wings Technocrats

Authorized Signatory  
**M.EZHUMALAI**

Witness:

भारतीय गैर न्यायिक

बीस रुपये

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TWENTY  
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20AC 819051  
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132/2, சேலம் நகரம், தஞ்சை  
அரசாங்க சமூக சேவை  
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IN WITNESS WHEREOF, the parties to this agreement have affixed their signatures on the day, month and year stated above.

Signed by, for and on behalf of  
Ganesh College of Engineering



*[Signature]*  
16/02/23  
Authorized Signatory  
**Dr. M.SUBAS CHANDRABOSE, M.Tech, Ph.D.,**  
**PRINCIPAL**

**PRINCIPAL**  
Ganesh College of Engineering,  
Attur Main Road, Mettupatti.  
SALEM-636 111.

*[Signature]*  
Witness:

Signed by, for and on behalf of  
EG Technologies

*[Signature]*  
16/02/2023  
Authorized Signatory  
**K. SELVAM**

*[Signature]*  
Witness:



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Phone: 0427 - 2211212, +91 9865440414  
E-Mail: principal@ganeshenggcollege.org www.ganeshenggcollege.org

Date:25-09-2023

**From**

Mrs. D. Latha,  
Department of Artificial Intelligence and Data Science,  
Ganesh College of Engineering,  
Salem.

**To**

The Principal,  
Ganesh College of Engineering,  
Salem.

Sub: Request to conduct certificate course – Regarding.

**Dear Sir,**

We would like to conduct a Certificate Course on “SBTIC-CYBER SECURITY” organized by Wings Technocrats, Salem for the Students of Artificial Intelligence and Data Science, to enhance their knowledge beyond curriculum. We have planned to conduct the course from 15/10/2023 to 19/11/2023 on every Sundays.

So kindly grant us permissions to conduct the certificate course in the above-mentioned duration.

Thank you

  
HOD





**Certificate course**  
**On**  
**SBT1C -CYBER SECURITY**  
**Start date: 15.10.2023(on Sundays)**  
**Duration: 35Hours**  
**Organized by,**  
**Wings Technocrats, Salem**

  
Program Coordinator

  
HOD/AI&DS

  
Principal



**PRINCIPAL**  
Ganesh College of Engineering,  
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ACADEMIC YEAR 2023-2024

COURSE SCHEDULE

SBT1C-CyberSecurity

Date / Hour	1	2	3	4	LUNCH BREAK	5	6
15-10-2023	Foundation of Cyber Security and Engineering		Programming, operating systems, encryption			Practical Session on CS	
22-10-2023	: Cyber Threat Intelligence and Network Security		Explosion of cyber threat data			Practical Session on CS	
29-10-2023	Malware Analysis, Penetration Testing and Incident Response		Vulnerabilities and how to react appropriately			Practical Session on CS	
05-11-2023	Digital Forensics with Legal, Ethical and Research Methods		Professionals in organisations, security management, project management, the legal framework			Practical Session on CS	
12-11-2023	Data Analysis Project		Data analysis or knowledge extraction problem			Practical Session on CS	
19-11-2023	Conceptual Analysis Project		Developing an analysis of a working software system			Practical Session on CS	

  
Program Coordinator

  
HOD





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ACADEMIC YEAR – 2023-2024(EVEN SEM)

CERTIFICATION COURSE

SBTIC-CYBER SECURITY

FEEDBACK QUESTIONNAIRE (PLEASE TICK THE APPROPRIATE ANSWER)

NAME OF THE PARTICIPANT: PRADAPRAJ

CLASS: II YEAR

1. Was the presentation clear and relevant to the topic?

Yes/No

2. Was the session well organized?

Yes/No

3. Was the course material provided sufficient and relevant?

Yes/No

4. Was the expert member capable of delivering the contents clearly?

Yes/No

5. Would you like to attend similar type of course again in the future?

Yes/No

Comments:

It is very useful course

Signature of the Participant





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**ACADEMIC YEAR 2023-2024(EVEN SEM)**

**SBTIC-CYBER SECURITY**

**PROGRAM REPORT**

The Department of Computer Science and Engineering, Ganesh College of Engineering organized a Certificate Course on "SBTIC-CyberSecurity" The Course was inaugurated on 15.10.2023 10.00am. Mrs.D.Latha, Head, Dept of AI&DS delivered the welcome address. It was conducted during the weekends from 15.10.2023 to 19.11.2023 for the duration of 35 hours.

Mr.A.Prakash, started with introduction about CyberSecurity on 15.10.2023. The course Assessment was carried out on 26.11.2023(AN) which consists of 25 questions about the topic, discussed. Around 36 students of Second Year AI&DS successfully completed the course. The students were appreciated with the course completion certificate.

The feedback was collected from the participants. Mrs.D.Latha, HOD, Dept of AI&DS delivered the vote of thanks at the end of the session.

The students are excited in doing Cybersecurity after the successful completion of this course.



Program Coordinator



HOD



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**ACADEMIC YEAR 2023-2024(EVEN SEM)**

**SBTIC-CYBER SECURITY**

**COURSE OUTCOMES**

1. We work closely with industry to design engaging courses that will give you the skills and experience to accelerate your career and get ahead in the competitive job market.
2. We'll support you to become what employers need: work-ready graduates with professional experience and industry skills. Your career will be in focus from day one, with support from our award-winning Careers Team, UK and overseas placements, internships, targeted training, coaching and research opportunities as part of DMU life and study.
3. Our commitment to helping students achieve their career goals was recognized in the Uni Compare rankings where students rated us the 16th best university for employability. There's lifelong support, too, through our alumni network.
4. We offer undergraduate and postgraduate courses (our postgraduate courses were rated as 8<sup>th</sup> best overall by students in the 2024 What Uni Student Choice Awards), foundation courses, full-time and part-time courses, and Learning Beyond Registration modules among others.
5. Most courses are taught using block teaching - our innovative approach to learning where you study one module at a time. You'll benefit from regular assessments - rather than lots of exams at the end of the year.

  
**Program Coordinator**

  
**HOD**





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Date: 19-02-2024

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Sub: Request to conduct certificate course – Regarding.

Dear Sir,

We would like to conduct a Certificate Course on “ML01AI–MACHINE LEARNING WITH AI APPLICATIONS” organized by Wings Technocrats, Salem for the Students of Artificial Intelligence and Data Science, to enhance their knowledge beyond curriculum. We have planned to conduct the course from 10/03/2024 to 14/04/2024 on every Sundays.

So kindly grant us permissions to conduct the certificate course in the above mentioned duration.

Thank you

HOD



Certificate course

On

ML01AI –MACHINE LEARNING WITH AI  
APPLICATIONS

Start date: 10/3/2024 (on Sundays)

Duration: 35Hours

Organized by

Wings Technocrats, Salem

  
Program Coordinator

  
HOD/AI&DS

  
Principal  
**PRINCIPAL**  
Ganesh College of Engineering,  
Attur Main Road, Mettupatti,  
SALEM-636 111.





# GANESH COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)  
Attur Main Road, Mettupatti, Salem - 636 111, Tamilnadu, India  
Phone: 0427 - 2211212, +91 9865440414  
E-Mail: principal@ganeshenggcollege.org www.ganeshenggcollege.org

ACADEMIC YEAR 2023-2024

COURSE SCHEDULE

ML01AI-MACHINE LEARNING WITH AI APPLICATIONS

Date / Hour	1	2	3	4	LUNCH BREAK	5	6
10-03-2024	Social Media Features		Machine learning algorithms and approaches			Practical Session on ML	
17-03-2024	Product Recommendations		E-commerce website today, which is an advanced application of machine learning			Practical Session on ML	
24-03-2024	Image Recognition		Machine learning and AI techniques.			Practical Session on ML	
31-03-2024	Sentiment Analysis		Emotion or opinion of the speaker or the write:			Practical Session on ML	
07-04-2024	Automating Employee Access Control		Implementing machine learning algorithms			Practical Session on ML	
14-04-2024	Regulating Healthcare Efficiency and Medical Services		Emergency waiting rooms across various departments of hospitals.			Practical Session on ML	

  
Program Coordinator

  
HOD







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ACADEMIC YEAR – 2023-2024(ODD SEM)

CERTIFICATION COURSE

ML01AI-MACHINE LEARNING WITH AI APPLICATIONS

FEEDBACK QUESTIONNAIRE (PLEASE TICK THE APPROPRIATE ANSWER)

NAME OF THE PARTICIPANT: GIOPIKA.S

CLASS: II YEAR

1. Was the presentation clear and relevant to the topic?

Yes/No

2. Was the session well organized?

Yes/.No

3. Was the course material provided sufficient and relevant?

Yes/No

4. Was the expert member capable of delivering the contents clearly?

Yes/No

5. Would you like to attend similar type of course again in the future?

Yes/No

Comments:

Interesting class - It is very  
useful

Signature of the Participant





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**ACADEMIC YEAR 2023-2024(EVEN SEM)**

**ML01AI-MACHINE LEARNING WITH AI APPLICATIONS**

## PROGRAM REPORT

The Department of Computer Science and Engineering, Ganesh College of Engineering organized a Certificate Course on "ML01AI-MACHINE LEARNING WITH AI APPLICATIONS" The Course was inaugurated on 10.03.2024 10.00am. Mrs.D.Latha, Head, Dept of AI&DS delivered the welcome address. It was conducted during the weekends from 10.03.2024 to 14.04.2024 for the duration of 35 hours. This Programme was conducted by Wings Technocrats, Salem

Mr.A.Aruna, started with introduction about Machine Learning with AI Applications on 10.03.2024. The course Assessment was carried out on 21.04.2024(AN) which consists of 25 questions about the topic, discussed. Around 36 students of Second Year AI&DS successfully completed the course. The students were appreciated with the course completion certificate.

The feedback was collected from the participants. Mrs.D.Latha, HOD, Dept of AI&DS delivered the vote of thanks at the end of the session.

The students are excited in doing Machine Learning with AI Applications after the successful completion of this course.



*[Signature]*  
Program Coordinator



*[Signature]*  
HOD



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ACADEMIC YEAR 2023-2024(ODD SEM)

ML01AI-MACHINE LEARNING WITH AI APPLICATIONS

## COURSE OUTCOMES

**Financial services.** Risk assessment, algorithmic trading, customer service and personalized banking are areas where financial services companies apply machine learning. Capital One, for example, deployed ML for credit card defense, which the company places in the broader category of anomaly detection.

**Pharmaceuticals.** Drug makers use ML for drug discovery, in clinical trials and in drug manufacturing. Eli Lilly has built AI and ML models, for example, to find the best sites for clinical trials and boost the diversity of participants. The models have sharply reduced clinical trial timelines, according to the company.

**Manufacturing.** Predictive maintenance use cases are prevalent in the manufacturing industry, where an equipment breakdown can lead to expensive production delays. In addition, the computer vision aspect of machine learning can inspect items coming off a production line to ensure quality control.

**Insurance.** Recommendation engines can suggest options for clients based on their needs and how other customers have benefited from specific insurance products. Machine learning is also useful in underwriting and claims processing.

**Retail.** In addition to recommendation systems, retailers use computer vision for personalization, inventory management and planning the styles and colors of a given fashion line. Demand forecasting is another key use case.

  
Program Coordinator

  
HOD





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E-Mail: principal@ganeshenggcollege.org www.ganeshenggcollege.org

Date: 11-09-2023

**From**

Mr. R.Sundram,  
Department of Computer science and Engineering,  
Ganesh College of Engineering,  
Salem.

**To**

The Principal,  
Ganesh College of Engineering,  
Salem.

Sub: Request to conduct certificate course – Regarding.

**Dear Sir,**

We would like to conduct a Certificate Course on “WA803- WEB APPLICATIONS” organized by EG Technologies, Salem for the Students of Computer Science and Engineering, to enhance their knowledge beyond curriculum. We have planned to conduct the course from 01/10/2023 to 05/11/2023 on every Sundays.

So kindly grant us permissions to conduct the certificate course in the above-mentioned duration.

Thank you



*Randy*  
HOD

Certificate course

On

WA803- WEB APPLICATIONS

Start date: 01.10.2023(on Sundays)

Duration: 35Hours

Organized by

EG Technologies, Salem

  
Program Coordinator

  
HOD/CSE

  
Principal

**PRINCIPAL**  
Ganesh College of Engineering  
Attur Main Road, Mettur  
SALEM-636 001





Learn. Rise. Excel

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ACADEMIC YEAR 2023-2024

COURSE SCHEDULE

WA803- WEB APPLICATIONS

Date / Hour	1	2	3	4	LUNCH BREAK	5	6
01-10-2023	Basics of Networking and Web Architecture		Basic network concepts, Internet, channel, Bandwidth, Data Transfer Rate, Protocols: HTTP, FTP, TCP/IP, VoIP,			Practical Session on BC	
08-10-2023	Website development using HTML and CCS.		Concept of website,HTML, Internal and External Linking ,Frames, Forms, Basics of Cascading Style sheets,			Practical Session on BC	
15-10-2023	Multimedia design GIMP		Gimp as a graphics tool Gimp interface, color modes, tools, transform, color tools, foreground			Practical Session on BC	
22-10-2023	Introduction to Dynamic website using java script		Limitations of static websites, Dynamic websites Features of JavaScript,			Practical Session on BC	
29-11-2023	Server-Side Development		Designing and implementing the server logic, database management, user authentication			Practical Session on BC	
05-11-2023	Frameworks and Libraries		Developers use frameworks and libraries to streamline the development process, ensure best practices.			Practical Session on BC	

  
Program Coordinator

  
HOD





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ACADEMIC YEAR – 2023-2024(EVEN SEM)

CERTIFICATION COURSE

WA803- WEB APPLICATIONS

FEEDBACK QUESTIONNAIRE (PLEASE TICK THE APPROPRIATE ANSWER)

NAME OF THE PARTICIPANT: S. RENUKA      CLASS: II - year

1. Was the presentation clear and relevant to the topic?

Yes/No

2. Was the session well organized?

Yes/No

3. Was the course material provided sufficient and relevant?

Yes/No

4. Was the expert member capable of delivering the contents clearly?

Yes/No

5. Would you like to attend similar type of course again in the future?

Yes/No

Comments:

Nil

S. Renuka  
Signature of the Participant





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**ACADEMIC YEAR 2023-2024(EVEN SEM)**

**WA803- WEB APPLICATIONS**

**PROGRAM REPORT**

The Department of Computer science and Engineering, Ganesh College of Engineering organized a Certificate Course on "WA803- WEB APPLICATIONS" The Course was inaugurated on 01.10.2023 10.00am. Mr.R.Sundram, Head, Dept of CSE delivered the welcome address. It was conducted during the weekends from 01.10.2023 to 05.11.2023 for the duration of 35 hours. This programme was conducted by EG Technologies, Salem.

Mr. V.SANJEEV started with introduction about WA803- WEB APPLICATIONS on 01.10.2023. The course Assessment was carried out on 05.11.2023(AN) which consists of 25 questions about the topic discussed. Around 45 students of Second Year CSE successfully completed the course. The students were appreciated with the course completion certificate.

The feedback was collected from the participants. Mr.R.Sundram, HOD, Dept of CSE delivered the vote of thanks at the end of the session.

The students are excited in doing WA803- WEB APPLICATIONS after the successful completion of this course.



  
Program Coordinator



  
HOD





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## ACADEMIC YEAR 2023-2024(EVEN SEM)

### WEB APPLICATIONS

### COURSE OUTCOMES

#### Course description and objectives:

On completion of this course, a student will be familiar with client server architecture and able to develop a web application using java technologies. Students will gain the skills and project-based experience needed for entry into web application and development careers.

#### COURSE OUTCOMES

1. Students are able to develop a dynamic webpage by the use of java script and DHTML
2. Students will be able to write a well formed / valid XML document
3. Students will be able to connect a java program to a DBMS and perform insert, update and delete operations on DBMS table.
4. Students will be able to write a server-side java application called Servlet to catch form data sent from client, process it and store it on database.
5. Students will be able to write a server-side java application called JSP to catch form data sent from client and store it on database.



  
Program Coordinator

  
HOD



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Date: 05-02-2024

**From**

Mr. R.Sundram,  
Department of Computer science and Engineering,  
Ganesh College of Engineering,  
Salem.

**To**

The Principal,  
Ganesh College of Engineering,  
Salem.

Sub: Request to conduct certificate course – Regarding.

**Dear Sir,**

We would like to conduct a Certificate Course on “AI2401 – ARTIFICIAL INTELLIGENCE” organized by EG Technologies, Salem for the Students of Computer Science and Engineering, to enhance their knowledge beyond curriculum. We have planned to conduct the course from 25.02.2024 to 31.03.2024 on every Sundays.

So kindly grant us permissions to conduct the certificate course in the above mentioned duration.

Thank you

  
HOD



**Certificate course**

**On**

**AI2401- ARTIFICIAL INTELLIGENCE**

**Start date: 25.02.2024(on Sundays)**

**Duration: 35Hours**

**Organized by**

**EG Technologies, Salem**

  
Program Coordinator

  
HOD

  
Principal



**PRINCIPAL**  
Ganesh College of Engineering  
Attur Main Road, Mettupatti  
SALEM-636 111.



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ACADEMIC YEAR 2023-2024

## COURSE SCHEDULE

### AI2401 – ARTIFICIAL INTELLIGENCE

Date / Hour	1	2	3	4	LUNCH BREAK	5	6
25-02-2024	Python Basics, OOPS, Numpy, Pandas, Matplotlib		Linux installation, Linux Commands for File Handling and Data Extraction			Practical Session on AI	
03-03-2024	The types of VCS - 2. Getting Started With Git And Its Architecture.		Intoduction to Git Version Control/Revision Control system			Practical Session on AI	
10-03-2024	Building a solid foundation to explore the fields of web development,		game development, data science & artificial intelligence.			Practical Session on AI	
17-03-2024	Statistical Methods: Definition and scope of Statistics,		tabular and graphical, including histogram and ogives, and independence of data			Practical Session on AI	
24-03-2024	Perspectives and Issues Concept Learning Version Spaces		Version Spaces and Candidate eEliminations			Practical Session on AI	
31-03-2024	Data Science at Scale with PySpark.		PySpark SQL and Data Science.			Practical Session on AI	

  
Program Coordinator

  
HOD





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ACADEMIC YEAR – 2023-2024(ODDSEM)

CERTIFICATION COURSE

AI2401 – ARTIFICIAL INTELLIGENCE

FEEDBACK QUESTIONNAIRE (PLEASE TICK THE APPROPRIATE ANSWER)

NAME OF THE PARTICIPANT:

viswa.D

CLASS:

II-year.

1. Was the presentation clear and relevant to the topic?

Yes/No

2. Was the session well organized?

Yes/No

3. Was the course material provided sufficient and relevant?

Yes/No

4. Was the expert member capable of delivering the contents clearly?

Yes/No

5. Would you like to attend similar type of course again in the future?

Yes/No

Comments:

NPI  
  
Signature of the Participant





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E-Mail: [principal@ganeshenggcollege.org](mailto:principal@ganeshenggcollege.org) [www.ganeshenggcollege.org](http://www.ganeshenggcollege.org)

**ACADEMIC YEAR 2023-2024(ODD SEM)**

**AI2401 – ARTIFICIAL INTELLIGENCE**

## PROGRAM REPORT

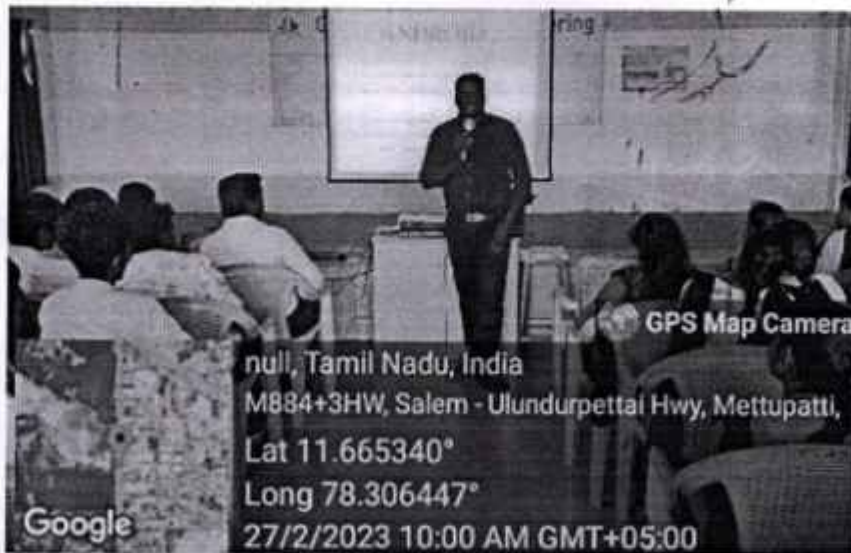
The Department of Computer Science and Engineering, Ganesh College of Engineering organized a Certificate Course on AI2401 – Artificial Intelligence.

The Course was inaugurated on 25.02.2024 10.00am. Mr.R.Sundaram, Head, Dept of CSE delivered the welcome address. It was conducted during the weekends from 25.02.2024 to 31.03.2024 for the duration of 35 hours. This Programme was conducted by EG Technologies, Salem.

Mr. H. Ranjithkumar, started with introduction about Artificial Intelligence on 25.02.2024. The course Assessment was carried out on 31.03.2024(AN) which consists of 25 questions about the topic, discussed. Around 41 students of Third Year CSE successfully completed the course. The students were appreciated with the course completion certificate.

The feedback was collected from the participants. Mr.R.Sundaram, HOD, Dept of CSE delivered the vote of thanks at the end of the session.

The students are excited in doing Artificial Intelligence after the successful completion of this course.



  
Program Coordinator



  
HOD



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**ACADEMIC YEAR 2023-2024(ODD SEM)**

**AI2401 – ARTIFICIAL INTELLIGENCE**

## COURSE OUTCOMES

**CO1** Formulate problems precisely, solve the problems, apply formal proof techniques, and explain the reasoning clearly.

**CO2** Apply appropriate mathematical concepts and skills to solve problems in both familiar and unfamiliar situations including those in real-life contexts.

**CO3** Design and analyze real world engineering problems by applying set theory, propositional logic and to construct proofs using mathematical induction.

  
Program Coordinator

  
HOD





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**ACADEMIC YEAR 2023-2024 (EVEN SEM)**

**BC20501- BLOCKCHAIN TECHNOLOGY**

## COURSE OUTCOME

- Describe the basic concepts and technology used for blockchain.
- Describe the primitives of the distributed computing and cryptography related to blockchain. Illustrate the concepts of Bitcoin and their usage.
- Implement Ethereum block chain contract.
- Apply security features in blockchain technologies.
- Use smart contract in real world applications.

  
Program Coordinator

  
HOD







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**ACADEMIC YEAR 2023-2024 (EVEN SEM)**

**BC20501- BLOCKCHAIN TECHNOLOGY**

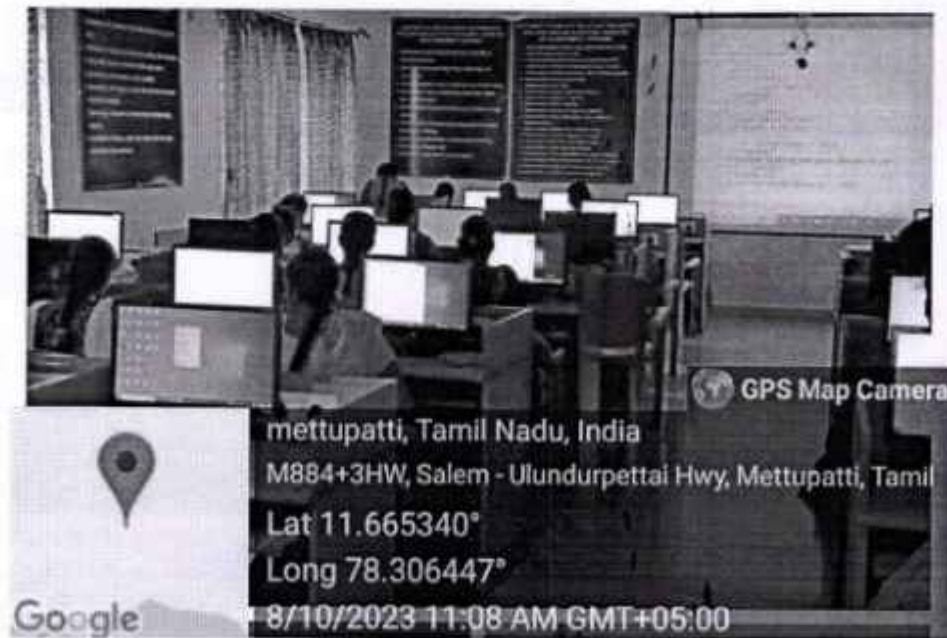
## PROGRAM REPORT

The Department of Information Technology, Ganesh College of Engineering organized a Certificate Course on "BC20501- BLOCKCHAIN TECHNOLOGY" The Course was inaugurated on 08.10.2023 10.00 am. Mr.C.SILAMBARASAN, Head, Dept of IT delivered the welcome address. It was conducted during the weekends from 08.10.2023 to 12.11.2023 for the duration of 35 hours. This programme was conducted by Wings Technocrats, Salem

Mr. P.Tamilarasan, started with introduction about Blockchain Technology on 08.10.2023. The course Assessment was carried out on 12.11.2023 (AN) which consists of 25 questions about the topic, discussed. Around 46 students of Second Year IT successfully completed the course. The students were appreciated with the course completion certificate.

The feedback was collected from the participants. Mr.C.SILAMBARASAN, HOD, Dept of IT delivered the vote of thanks at the end of the session.

The students are excited in doing Blockchain Technology after the successful completion of this course.



*P. Thiagarajan*  
Program Coordinator



*C. Silambarasan*  
HOD



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ACADEMIC YEAR – 2023-2024(EVEN SEM)

CERTIFICATION COURSE

BC20501- BLOCKCHAIN TECHNOLOGY

FEEDBACK QUESTIONNAIRE (PLEASE TICK THE APPROPRIATE ANSWER)

NAME OF THE PARTICIPANT:

K. Preethi

CLASS: II - year

1. Was the presentation clear and relevant to the topic?

Yes/No

2. Was the session well organized?

Yes/.No

3. Was the course material provided sufficient and relevant?

Yes/No

4. Was the expert member capable of delivering the contents clearly?

Yes/No

5. Would you like to attend similar type of course again in the future?

Yes/No

Comments:

Nil

K. Preethi  
Signature of the Participant





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ACADEMIC YEAR 2023-2024(EVEN SEM)

## COURSE SCHEDULE

### BC20501- BLOCKCHAIN TECHNOLOGY

Date / Hour	1	2	3	4	LUNCH BREAK	5	6
08-10-2023	Overview of Blockchain		Blockchain ecosystem and structure, Working of blockchain, Types of blockchain.			Practical Session on BC	
15-10-2023	Create & deploy your private Blockchain on Multi Chain		Cryptography and Crypto-currency, Anonymity and Pseudonymity in cryptocurrencies			Practical Session on BC	
22-10-2023	Delving into Blockchain		The role and property of crypto			Practical Session on BC	
29-10-2023	Hyperledger		Oracle authorization: privileges, roles			Practical Session on BC	
05-11-2023	Prospects of Blockchain		Launch SQL injection attacks, Countermeasures			Practical Session on BC	
12-11-2023	Ethereum		Data confidentiality: relational encryption			Practical Session on BC	

*P. Anand*  
Program Coordinator

*[Signature]*  
HOD



**Certificate course**

**On**

**BC20501- BLOCKCHAIN**

**TECHNOLOGY Start date: 15.10.2023 (on  
Sundays)**

**Duration: 35 Hours**

**Organized by**

**Wings Technocrats, Salem**

  
Program Coordinator

  
HOD/IT

  
Principal

**PRINCIPAL**  
Ganesh College of Engineering,  
Attur Main Road, Mettupatti,  
SALEM-636 111.





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Date: 18-09-2023

**From**

Mr.C.Silambarasan,  
Department of Information Technology,  
Ganesh College of Engineering,  
Salem.

**To**

The Principal,  
Ganesh College of Engineering,  
Salem.

Sub: Request to conduct certificate course – Regarding.

**Dear Sir,**

We would like to conduct a Certificate Course on “BC20501- BLOCKCHAIN TECHNOLOGY” organized by Wings Technocrats, Salem for the Students of Information Technology, to enhance their knowledge beyond curriculum. We have planned to conduct the course from 08/10/2023 to 12/11/2023 on every Sundays.

So kindly grant us permissions to conduct the certificate course in the above mentioned duration.

Thank you



HOD



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E-Mail: principal@ganeshenggcollege.org www.ganeshenggcollege.org

Date: 12-02-2024

**From**

Mr.C. Silambarasan,  
Department of Information Technology,  
Ganesh College of Engineering,  
Salem.

**To**

The Principal,  
Ganesh College of Engineering,  
Salem.

Sub: Request to conduct certificate course – Regarding.

**Dear Sir,**

We would like to conduct a Certificate Course on "IOT20502- INTERNET OF THINGS" organized by EG Technologies, Salem for the Students of Information Technology, to enhance their knowledge beyond curriculum. We have planned to conduct the course from 03/03/2024 to 07/04/2024 on every Sundays.

So kindly grant us permissions to conduct the certificate course in the above-mentioned duration.

Thank you

  
HOD



Certificate course

On

IOT20502- INTERNET OF THINGS

Start date: 03.03.2024 (on Sundays)

Duration: 35 Hours

Organized by

EG Technologies, Salem

  
Program Coordinator

  
HOD

  
Principal  
**PRINCIPAL**  
Ganesh College of Engineering,  
Attur Main Road, Mettupatti,  
SALEM-636 111.





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ACADEMIC YEAR 2023-2024

COURSE SCHEDULE

IOT20502- INTERNET OF THINGS

Date / Hour	1	2	3	4	LUNCH BREAK	5	6
03-03-2024	IOT Introduction		IOT Architecture, Major component of IOT			Practical Session on IOT	
10-03-2024	IOT Security		Attack, Defense, and Network Robustness of Internet of Things			Practical Session on IOT	
17-03-2024	IOT Data Acquisition & Platforms		Real-time systems and embedded software			Practical Session on IOT	
24-03-2024	IOT Data Communication		IEEE 802.15.4, IEEE 802.15.4e, 802.11ah, Relay Access Point (AP)			Practical Session on IOT	
31-03-2024	IOT Data Storage & Retrieval		Overview and Role of Storage in Cloud / Server /Inhouse Storage			Practical Session on IOT	
07-04-2024	IOT Data Analytics & Visualization		Visualization and interpretation of Data			Practical Session on IOT	

  
Program Coordinator

  
HOD







# GANESH COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)  
Attur Main Road, Mettupatti, Salem - 636 111, Tamilnadu, India  
Phone: 0427 - 2211212, +91 9865440414  
E-Mail: principal@ganeshenggcollege.org www.ganeshenggcollege.org

ACADEMIC YEAR – 2023-2024(ODD SEM)

CERTIFICATION COURSE

IOT20502- INTERNET OF THINGS

FEEDBACK QUESTIONNAIRE (PLEASE TICK THE APPROPRIATE ANSWER)

NAME OF THE PARTICIPANT: R. UTUNAL

CLASS: II-year

1. Was the presentation clear and relevant to the topic?

Yes/No

2. Was the session well organized?

Yes/No

3. Was the course material provided sufficient and relevant?

Yes/No

4. Was the expert member capable of delivering the contents clearly?

Yes/No

5. Would you like to attend similar type of course again in the future?

Yes/No

Comments:

Nil

  
Signature of the Participant





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## ACADEMIC YEAR 2023-2024 (ODD SEM)

### IOT20502- INTERNET OF THINGS

#### PROGRAM REPORT

The Department of Information Technology, Ganesh College of Engineering organized a Certificate Course on "IOT20502- INTERNET OF THINGS" The Course was inaugurated on 03.03.2024 10.00 am. Mr.C. Silambarasan, Head, Dept of IT delivered the welcome address. It was conducted during the weekends from 03.03.2024 to 07.04.2024 for the duration of 35 hours. This Program was conducted by EG Technologies, Salem.

Mr. P.Meganathan, started with introduction about Internet of Things on 03.03.2024. The course Assessment was carried out on 07.04.2024 (AN) which consists of 25 questions about the topic, discussed. Around 46 students of Second Year IT successfully completed the course. The students were appreciated with the course completion certificate.

The feedback was collected from the participants. Mr.C.Silambarasan, HOD, Dept of IT delivered the vote of thanks at the end of the session.

The students are excited in doing Internet of Things after the successful completion of this course.



*R. Arin*  
Program Coordinator



*[Signature]*  
HOD



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**ACADEMIC YEAR 2023-2024 (ODD SEM)**

**IOT20502- INTERNET OF THINGS**

## **COURSE OUTCOME**

- Impact and challenges posed by IoT networks leading to new architectural models.
- The smart objects and the technologies to connect them to network.
- Application protocols for IoT.
- Role of Data Analytics and Security in IoT.
- Sensor technologies for sensing real world entities
- The basic technologies of IoT for developing innovative applications.
- Assess the genesis and impact of IoT applications, architectures in real world.
- Diverse methods of deploying smart objects and connect them to network.

  
**Program Coordinator**

  
**HOD**

