



Government College of Technology, Coimbatore-641013

(An Autonomous Institution affiliated to Anna University, Chennat)
SELF-STUDY REPORT

CRITERION 5 Student Support and Progression

Key Indicator: 5.3 Student Participation and Activities

- 5.3.3 The institution conducts / organizes following activities:
 - 1. Sports competitions/events
 - 2. Cultural competitions/events
 - 3. Technical fest/Academic fest
 - 4. Any other events through Active clubs and forums

DECLARATION

This is to certify that the supporting documents for this metric enclosed herewith are true to the best of my knowledge and belief.

HEAD OF THE INSTITUTION

(Seal and sign of Principal)

Gevernment College of Technology: Coimbatore - 641013



Sports, Cultural, Technical Fest/Academic Fest and any other club activities

2019-2020

S.No	Date	Event Type	Event Name	Page No
1	11 -03 -2020	Sports	Annual Sports Day	1-10
2	20-09-2019,21-09- 2019	Cultural	Muthamil Villa -19	11 -12
3	13-3-2020,14-03- 2020,15-03-2020	Cultural	SANGAMAM -20	13-14
4	21 -02-2020	Cultural	World language day	15
5	24-09-2019	Technical / academic fest	CSE:Login ,Magazine :Blossom 19	17-18, 24-43
6	23-03-2020	Technical / academic fest	ECE:Nexus	44-45
7	06 -02 - 2020	Technical / academic fest	CSE:SSQ	19-22
8	28-02-2020	Technical / academic fest	CSE:Ethical Hacking Workshop	23
9	30-07-2020	Adminstration Aspriant Council	Guide to crack UPSC	46
10	21-08-2019	Adminstration Aspriant Council	Art of Reading Newspaper	46
11	18-12-2019	Adminstration Aspriant Council	Evening Sessions -Preparation of UPSC	46
12	01 -04 - 2020	Adminstration Aspriant Council	Brahmastra - Morning class	47
13	26-01-2020	Adminstration Aspriant Council	Republic day celebration	48
14	30-03-2020 - 05- 04-2020	Adminstration Aspriant Council	Brahmastra 2.0	48
15	21-04-2020	Adminstration Aspriant Council	National civil service day celebration	49
16	01 -05 - 2020	Adminstration Aspriant Council	Workers day celebration	49
17	06-05-2020 - 08- 05-2020	Adminstration Aspriant Council	MASTER	49 -50
18	10 -05 -2020	Adminstration Aspriant Council	MASTER TALK	50
19	23-05-2020	Adminstration Aspriant Council	Orientation of tacking problems during UPSC preparation	50 -51
20	23-01-2020 to 26- 01-2020	SAE GCT	Baja SAEINDIA 2020	52-53
21	19-3-2020 to 21-3- 2020	SAE GCT	SAE INDIA TDC 2020	54
22	09 -05 -2020	Ys Service Club of GCT youth	Greencrest - Community Project	55



GOVERNMENT COLLEGE OF TECHNOLOGY, COIMBATORE-13

DEPARTMENT OF PHYSICAL EDUCATION

ANNUAL SPORTS DAY-2020

ATHLETIC RESULTS: MEN

	EVENTS	NAME	ROLL NO	YEAR & BRANCH	PERFORMANCE
O	JAVELIN THROW I II III	A.ARUN PRASATH N.DHARUN KANNA N.AJAY	1918105 1917110 1912104	I IT I CSE I MECH	34.50 Mts 31.40Mts 30.71 Mts
	SHOTPUT I II III	NAVEEN .K A.ARUN PRASATH N.DHARUN KANNA	1718123 1918105 1917110	III IT I IT I CSE	8.98 Mts 8.29 Mts 8.11 Mts
3	DISCUSS THROW I II	A.ARUN PRASATH R.GOKULRAJA M.PRAKASH	1918105 1712L05 181917	I IT I MECH II IBT	21.05 Mts 21.03 Mts 19.96 Mts
4	HAMMER THROW. I II III	M.AJITH KUMAR N.AJAY K.NAVEEN	1618101 1912104 1718123	IV IT I MECH III IT	15.70 Mts 15.62 Mts 14.85 Mts
D	LONG JUMP I II III	P.N.KARTHIKEYAN T.VASANTH S.MANIBHARATHI	1712L04 1812203 1811146	III MECH II MECH II CIVIL	5.38 Mts 5.30 Mts 5.14 Mts
6	TRIPLE JUMP I II III	S.MANOJ T.VASANTH B.PREM KUMAR	1711148 1812203 1819175	III CIVIL II MECH II IBT	12.44 Mts 11.50Mts 10.86Mts

MIE BEL

A. Zimas 11-3-202



HIGH JUMP I II III	G.PRAVEEN KUMAR S.KAVIN KUMAR C.PRAKASH	1816132 1614117 1611172	II EIE IV ECE IV CIVIL	1.70 Mts 1.60 Mts 1.55 Mts
200 Mts I II III	S.S.KARTHICK D.LAKSHMANAN M.RAJENDIRAN	1812149 1813138	III MECH II MECH II EEE	25.85 Sec 26.13 Sec 26.25 Sec
400 Mts I II III	D.LAKSHMANAN M.ANANDH R.VENKATESH	1812149 1812109 1818L09	II MECH II MECH II IT	59.86 Mins 01.00.67 Mins 01.00.85 Mins
800 Mts I II III	R.NAVEEN L.ARUN KUMAR C.MOHAN KUMAR	1812163 1712107 1819160	II MECH III MECH II IBT	2.16 Mins 2.25 Mins 2.28 Mins
1500 Mts I II III	C.KESAVAN D.LAKSHMANAN R.NAVEEN	1811142 1812149 1812183	II CIVIL II MECH II MECH	5.11 Mins 5.12 Mins 5.13 Mins
5000 Mts I II III	D.LAKSHMANAN C.MOHANKUMAR R.VENKATESH	1812149 1818L12	II MECH	20.08 Mins 20.21 Mins 20.54 Mins
I I II III	MANOJ SILAMBARASAN SOUNDIRA RASANM.	1711148	II CINIL 10 CSE III MECH.	11.83 SEC SEC
4*100 Relay I PLINE	1 MUKESH KUMAR.		III CSE	A
	3 SOUNDRARASAN.A 4 SATHISHKUMAR.K		II WECH	D. Van

VUE PRE Page 2 of 55

D. M. Was 11.3.2000 PD

UPDF
WWW.UPDF.COM

9	WWW.UPDF.COM				
	П	SILAMBARASAN PRAKASA. C. PRAKASA. C. PRAKINSA S. ARANINTA.R.	10 CSE 10 CIVIL 10 CIVIL	IV YRJ.	
	Ш	R. NAYEE OV L. BHARATH S. NGWELH S.T. BOODATHY.	I WELL I WELL I WELL I T BI.	11485.	
	4*400 Relay	S.S.KARTHICK S.VEINTHARAJ L.ARUN KUMAR BILL GATES	1712311 1712L24 1712107 1718106	III YEAR	4.18 Min
)	II	P.DHUSHVANTH V.KALAISELVAM C.PRAKASH SHANMUGARAJ	1611112 1616131 1611172 1611187	IV YEAR	4.25 Min
	ш	KESAVAN.C VIGNESH.S RAMESH.S SANJAY.D	1811121 1812205 1812180 1816145	II YEAR	4.36 Min

MINI MARATHONI:

II - MECA D. LAKSHMANAN I

18I - 1 C. MOHAN KOMAR

11-IT R. VENKATESH

INDIVIDUAL CHAMPIONSHIP: D.LAKSHMANAN (II YEAR MECH)

I blace - KHO-KHO TEAM -

TI place - Kabadali (MEN) TEAM.

TI place - CRICKET TEAM.

A. Amas

VILE PRage 3 of 55



GOVERNMENT COLLEGE OF TECHNOLOGY, COIMBATORE-13

DEPARTMENT OF PHYSICAL EDUCATION

ANNUAL SPORTS DAY 2020

ATHLETIC RESULTS: WOMEN

DATE: 11. 03. 2020

EVENTS	NAME	ROLL NO	YEAR & BRANCH	PERFORMANCE
JAVELINTHROW				
T	G.AARTHI	1913101	IEEE	11.77 Mts
П	G.V.JAISHREE	1911126	I CIVIL	09.95 Mts 111
III	N.B.KAVVEYA	1913124	I EEE	9.84 Mts
SHOTPUT				
I	A.KEERTHIGA	1813122	II EEE	5.92 Mts
11	S.RAMYA	1714133	II ECE	5.80 Mts
III. Called and a second	R.KIRUTHIKA	1813124	II EEE	5.76 Mts
DISCUSS THROW				
I	R.KIRUTHIKA	1813124	HEEE	16.99 Mts
II	G.AARTHI	1913101	IEEE	14.10 Mts
Ш	SATHYAROOBA	1819188	II IBT	12.75 Mts
LONG JUMP		1177 4 14 4	* *	
I	G.HARINI	1911120	I CIVIL	3.20 Mts
П	G.V.JAISHREE	1911126	I CIVIL	3.00 Mts
Ш	R.KIRUTHIKA	1813124	II EEE	2.94 Mts
TRIPLE JUMP	Ange, has promoted a		(a Zi e Y	11 de 1
I	G.V.JAISHREE	1911126	I CIVIL	6.70 Mts
п	N.B.KAAVEYA	1913124	IEEE	6.35 Mts
Ш	P.KAVIPRIYA	1911139	I CIVIL	4.95 Mts
			- 21-11	
HIGH JUMP	M.SINDHU	1711187	III CIVIL	1.175 Mts
Ι	M.SUBHASHINI	1816L08	II EIE	1.175 Mts
П	A.SHAKTH	1718138	III III .	1.15Mts
Ш			,	
200 Mts I	N.B.KAAVEYA	1913124	IEEE	35.33 Sec
П	G.V.JAISHREE	1911126	I CIVIL	36.46 Sec
Ш		1911120	I CIVIL	39.12 Sec
	S.RATHINA	1911191	ICIVIL	37.12 300
400 Mts I	CHAPPE	1011120	LOWIT	1.23 Mins
II	G.HARINI	1911120	ICIVIL	
ш	N.B.KAAVEYA	1913124	IEEE	1.24 Mins
щ	G.V JAISHREE	1911126	ICIVIL	1.31 Mins



Physical pirous



		1400		
800 Mts I II III	G.HARINI C.KRISHNAPRIYA G.V.JAISHREE	1911120 1817127 1911126	I CIVIL II CSE I CIVIL	03.31 Mins 03.41 Mins 03.42 Mins
1500 Mts I II III	N.B.KAAVEYA G.HARINI R.KIRUTHIKA	1913124 1911120 1813124	I EEE I CIVIL II EEE	7.19 Mins 7.28 Mins 7.33 Mins
100 Mts I II III	B.SANDHIYA S.SANGAMI G.HARMI		MEEE.	14.87

4*100 Relay I	V. BHUVANESWARI S. SANGAMI B. SANDEYA M. KAR THIKA		11)40	J-00
П	P. POOMAMATHI R. SARANYA E. DHARANI V. JEEVITHA	2/20	Digrs	1.05
ш	HARINI G. JAISHREE G.V. KAAVEYA NB.	The state of the s	9 442.	1.0b

INDIVIDUAL CHAMPIONSHIP : G.HARINI (I YEAR CIVIL)

D. D. 11.3.20



GOVERNMENT COLLEGE OF TECHNOLOGY, COIMBATORE-13. DEPARTMENT OF PHYSICAL EDUCATION

67th ANNUAL SPORTS MEET 2019-2020

OVERALL GAMES

MEN

S.No	GAMES	WINNERS	RUNNERS
1	HOCKEY	IV YEAR	III YEAR
2	VOLLEY BALL	IV YEAR	III YEAR
3	FOOT BALL	III YEAR	IV YEAR
4	КНО-КНО	II YEAR	IV YEAR
5	CHESS	IV YEAR	III YEAR
6	TABLE TENNIS	IV YEAR	III YEAR
7	BASKET BALL	II YEAR	III YEAR
8	HANDBALL	III YEAR	I YEAR
9	CRICKET	III YEAR	IV YEAR
10	KABADDI	III YEAR	IV YEAR
11	BALL BADMINTON	III YEAR	I YEAR
12	BADMINTON	IV YEAR	III YEAR

Vice Pol.

A. Minaz 11.3.2020 Physical Director



GOVERNMENT COLLEGE OF TECHNOLOGY, COIMBATORE-13. DEPARTMENT OF PHYSICAL EDUCATION

67th ANNUAL SPORTS MEET 2019-2020

OVERALL GAMES WOMEN

GAMES	WINNERS	RUNNERS
BADMINTON	III YEAR	II YEAR
HOCKEY	II YEAR	III YEAR
BALL BADMINTON	IV YEAR	III YEAR
BASKETBALL	II YEAR	IV YEAR
KHO-KHO	III YEAR	IV YEAR
CHESS	II YEAR	III YEAR
VOLLEYBALL	II YEAR	IV YEAR
TABLE TENNIS	I YEAR	III YEAR
THROW BALL	II YEAR	III YEAR
	BADMINTON HOCKEY BALL BADMINTON BASKETBALL KHO-KHO CHESS VOLLEYBALL TABLE TENNIS	BADMINTON HOCKEY BALL BADMINTON IV YEAR BASKETBALL II YEAR KHO-KHO CHESS II YEAR VOLLEYBALL II YEAR I YEAR I YEAR

"TO ACHIEVE AND TO FINISH THE RUN IS JOY"

I APPRECIATE ALL THE EFFORTS INVESTED BY THE SPORTS

STUDENTS OF GCT.

FD



67th ANNUAL SPORTS MEET 2019-2020

OVERALL POINTS -GAMES BOTH MEN AND WOMEN

S.NO	YEAR	POINTS
01	III YEAR	150
02	IV YEAR	114

YOUR PRL

D. Mina) 11.3.2020 PHYMAL DIREGER



67th ANNUAL SPORTS MEET 2019-2020

OVERALL POINTS -ATHLETICS BOTH MEN AND WOMEN

S.NO	YEAR	POINTS
01	II YEAR	124.5
02	I YEAR	120
OZ.		

VICEPPL

D. Simas 11.3.2020 PHYSICAL DIRECTOR



GOVERNMENT COLLEGE OF TECHNOLOGY, COIMBATORE-13. DEPARTMENT OF PHYSICAL EDUCATION

67th ANNUAL SPORTS MEET 2019-2020

BEST PERFORMANCE LIST

SNO	GAME	NAME	YEAR & DEPT	
01	BALL BADMINTON	K.PRABURAM	IV CIVIL	
02	BALL BADMINTON	M.ANUSUYA	IV ECE	
03	CRICKET	R.JAGADEESH	IV CIVIL	
04	BASKETBALL	R.SUGANYA	IV EIE	
05	CHESS	RONALDO	IV MECH	
06	VOLLEYBALL	P.POORNAMATHI	IV EIE	
07	ATHLETICS	A.SILAMBARASAN	IV CSE	
08	ATHLETICS	E.DHARANI	IV IT	
09	BADMINTON	D.PAVITHRA	III EEE	
10	CHESS	P.JANA PREETHI	II IBT	

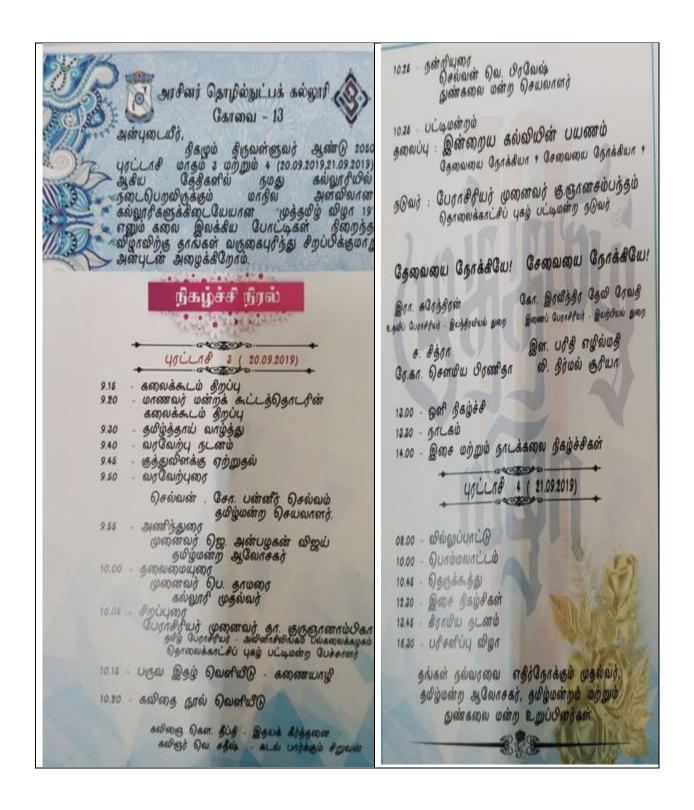
MUE PRL

Physical Director



Cultural Activity: 2019-2020

Muthamil Villa 2019





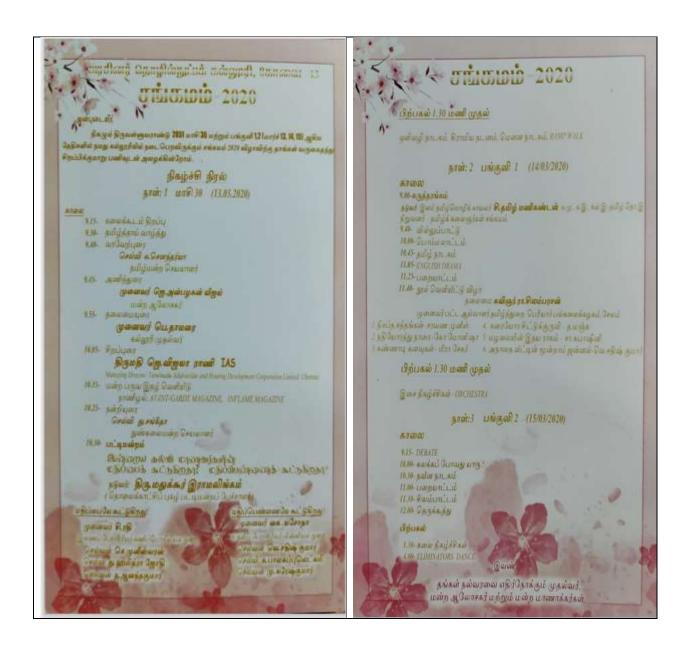
முத்தமிழ் விழா 19



2019 ஆம் ஆண்டு **அனைத்து கல்லூரிகளுக்கும்** இடையில் தமிழ் சார்ந்த **தனி நபர் மற்றும் குழு நிகழ்வுகளை முத்தமிழ்** விழா என்றல் பெயரில் நம் மன்ற மாணவர்கல் நிகழ்த்தினர்.



Sangamam 20





சங்கமம் 20



2020 ஆம் ஆண்டு மார்ச் மாதம் கல்லூரியின் அனைத்து மன்றமும் இணைந்து நடத்திய **சங்கமம் விழாவில்** பல்வேறு **தனி நபர் மற்றும் குழு நிகழ்வுகளையும்** நிகழ்த்தி சிறப்பாக நடத்தினர்.



Cultural Activity: World Language Day -21-Feb-2020



To honor tradition on World Language Day, Students engage in solo and group activities with flair. Performing dramas, folk songs and dance, traditional Paraiattam, Bharatanatyam, villupattu, they host a vibrant fair.



Computer Science and **Engineering** Association (CSEA) **Annual Report** 2019 - 2020

Government College of Technology
Coimbatore - 13

Department of Computer Science
and Engineering



Login '19 24th September 2019



Welcome Juniors

As Aristotle said, Well begun is half done, it is one such event that offers a prosperous beginning. It is the event of juniors logging into the department to begin their journey and a great start for the engineers in the making. It is made special with various kinds of events which makes the day even more colorful and memorable. The seniors offer a warm welcome and ensure their guidance throughout the journey to their juniors. The juniors in return, promise their prospective growth and innovative ideas in the technical arena.

READ MORE







Pics of the day









SSQ'20 6th February 2020





Soft Sem Quiz

Soft Sem Quiz serves as a platform for the juniors to express their technical supremacy.

Soft Sem Quiz starts with a sequence of events commencing every day which ensures happy learning happening every day.

Soft Sem Quiz is a pleasant platform where juniors can express and evolve into professionals and gain experiences by interacting with their seniors.

The learning process continues for seniors and juniors learning from each other.

READ MORE





Events





Math Magic C programming **Data Structures** PPT Communication Marketing **OOPS** Quiz Coding Web Drawing Photography



READ MORE



Chief Guest



Dr. Princely Samuel, Freelance Soft Skills Trainer

Icon Of SSQ



Ramanathan A L



Best Of SSQ



Dayanandh N





Pics of the day









Ethical Hacking Workshop 28th February 2020





Resource Person

Sankarraj Subramanian

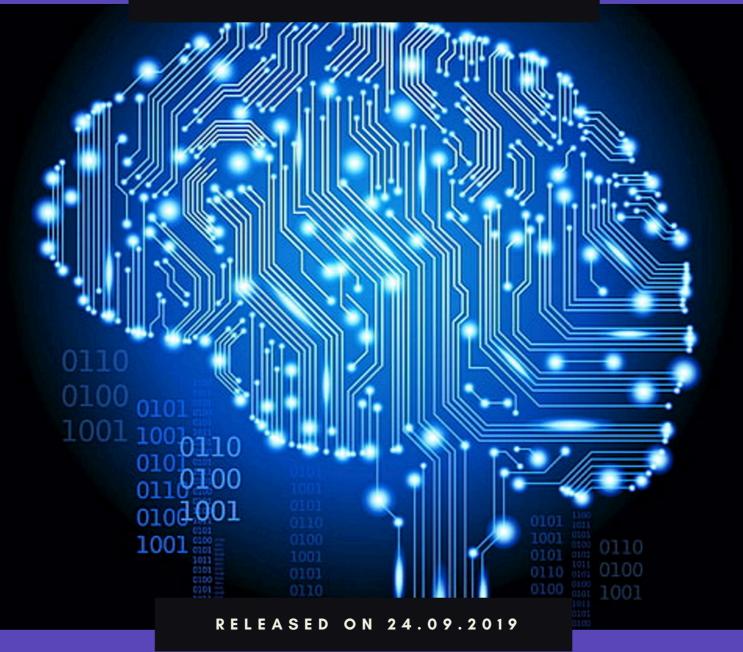
Founder & CEO | Cyber Crime Consultant |
Chief Information Security Consultant |
Ethical Hacker | Pentester | Cyber Forensics
Analyst | International Speaker



ISSUED ON THE OCASSION OF LOGIN 2019

BLOSSOM

CSEA PUBLICATIONS



A yearly magazine publication from CSEA of GCT



BLOSSOM 2019

_					
	A TO	OTT		TOTAL	TUTE
		4 B I B A			4 M MM M !

Government College of Technology

3 ABOUT THE DEPARTMENT

Computer Science and Engineering

- 4 FACULTY
- 5 ASSOCIATION ACTIVITIES 2018-2019
- 6 STUDENT STRENGTH
- 7 PLACEMENT STATISTICS
- 8 ARTICLES

Artificial Intelligence

Data Science

11 STUDENT ACHEVEMENTS

Vishwakarma Award

Bosch Smart Student Award

Smart India Hackathon

- 13 SKETCHES
- 15 EDITORIAL BOARD AND CSE ASSOCIATION
- 16 CLUB ACTIVITIES
- 17 SPORTS ACHIEVEMENTS AND NPTEL CERTIFICATION HOLDERS
- 18 POEMS TAMIL



ABOUT THE INSTITUTE



Government College of Technology, Coimbatore was founded in 1945 as Arthur Hope College of Technology under the patronage of Philanthropist G.D. Naidu. In June 1950, the college moved to its present location that spans about 45 hectares in Thadagam road, Coimbatore. The main building of the college was inaugurated by President Dr. Sarvepalli Radhakrishnan on October 08, 1959. In 1987, full autonomy was granted for all academic programs. The courses offered are accredited by the NBA and the college has been accredited with 'A' Grade by NAAC for a period of five years from 2018. The Institution is committed in ensuring the students are well awarded of the technological revolution taking place worldwide. The institution gives equal importance to Extra-curricular activities and encourages students of every background to participate in these activities, thereby ensuring the students are equipped with social skills along with their ability of critical thinking. This enormously helps the students in getting groomed to face the outside world!

MISSION

- •To achieve Academic excellence through innovative teaching and learning practices
- •To enhance employability and entrepreneurship
- •To improve the research competence to address societal needs
- •To inculcate a culture that supports and reinforces ethical and professional behaviours for a harmonious and prosperous society.

VISION

To emerge as a Centre of Excellence and eminence by imparting futuristic technical education in keeping with global standards, making our students technologically competent and ethically strong so that they can readily contribute to the rapid advancement of society and mankind.





ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering is functioning in the college ever since 1984. The Department offers both UG and PG programmes with its highly qualified and experienced teaching faculty with the vision to produce globally competent graduates with moral values committed to build a vibrant nation. The department has also become a pool of Ph.D scholars from 1992. The courses offered by the department follows the AICTE recommended curriculum. Besides imparting theoretical knowledge, the curriculum stresses on developing analytical skills, communication, problem solving and teamwork abilities with its Employability Enhancement(EEC) and Value Added courses.

STUDENT ACHIVEMENTS

- Smart India Hackathon 2019 Finalists
- AICTE- ECI- ISTE Chhatra Vishwakarma Awards 2018 - National Convention Winners

The Students of the Department are also active in various clubs and activities such as The Literary and Debating Society, The Student Journalist Council, TEDxGCT, Rotaract Club of GCT, Green club, Tamil Mandram, NSS, NCC and more.

VISION OF THE DEPARTMENT

To be in the frnotier of computer science and engineering and to produce globally competent graduates with moral values commited to build a vibrant nation.

MISSION OF THE DEPARTMENT

- •To strengthen the core competence in computer science and engineering through analytical learning.
- •To enhance employability and entrepreneurship
- •To produce successful graduates with personal and professional responsibilities and commitment to lifelong learning.
- •To uplift innovative research in computer science and engineering to serve the needs of industry, government and society.



FACULTY

Dr. J C Miraclin Joyce Pamila

Dr. S Rathi

Associate Professor & HoD

Associate Professor

Dr. K Kumar

Prof. T Rajasenbhagam

Assistant Professor(SI. Grade)

Assistant Professor

Dr. A Meena Kowshalya

Dr. R Bhavani

Assistant Professor

Assistant Professor

Prof. L Sumathi

Assistant Professor

Ms. N Ramya

Ms. Poovila

HBL

HBL

Ms. C Gayathri

Ms Annie Suganya
HBL

HBL

Ms. G Surya Praba Devi

Mr. A Arumugam

HBL

HBL



ASSOCIATION ACTIVITIES 2018-2019

LOGIN 2018:

Login 2018 was an inaugural function of CSEA to welcome and induct second year students into the association. It was conducted on 11th September 2018.

SOFT SEM QUIZ 2019:

SSQ 2019 was an intra-department technical symposium where the third year and second year students participated in various technical and non technical events organised by the final year students. It paved a way for the second and third year students to analyse their strengths and weakness among various domains of technology. The winners are awarded by the Head department in valedictory ceremony on 5th February 2019.

WORKSHOP ON ML 101 AND BIG DATA ANALYTICS:

A workshop was organised by the association on Machine Learning. A total of 181 Students from various part of the state attended the workshop on 9th March 2019. It was handled by Ms. Aishwarya Ramachandran, Data Analyst, Cerner Corporation, Bengaluru. An Industry Readiness workshop on Big Data Analytics was also conducted for the students of CSE Department on 14.09.2019.

INFOQUEST 2019:

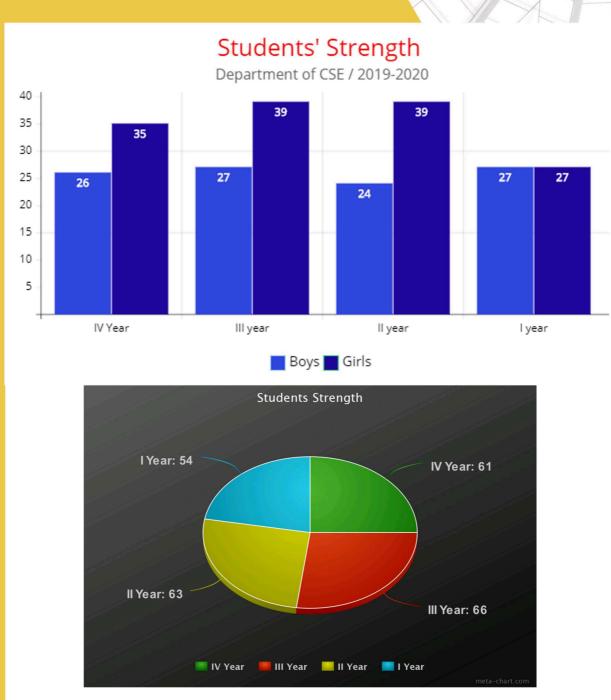
Infoquest 2019 was a National Level Technical Symposium organised by CSEA on 12th and 13th of March 2019. A sum of 390 students from various technical institutes attended the symposium and the winners were facilitated by the Head of the Department in the valedictory ceremony on 13.03.2019. Various technical events such as Mastermind, Vector of IQ, Webophila, Paper and Project of Presentation were conducted.

An Employability Skills Training in IT/ITES programme on DATA SCIENCE and DATA ANALYTICS by ICT Academy was organised for the final year students from 21.01.2019 to 22.02.2019. 47 Students were benefited by this programme.



STUDENT STRENGTH (2019-2020)

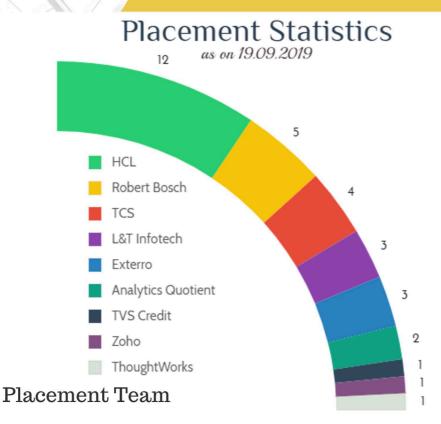








PLACEMENT STATISTICS (FINAL YEAR BE CSE)



Dr. A Meena Kowshalya

Faculty Advisor

Mr. K Sathyapriyan Placement Coordiantor

Ms. Y Meena Placement Co-coordinator

Mr. T Ajoe Thambi Placement Representative

Ms. N Surya Placement Representative

Ms. Mari Meena Placement Representative

Student Ambassadors

Ms. R Priyadharsini Robert Bosch

Ms. C Srisaranya Tismo Tech



ARTIFICIAL INTELLIGENCE AND THE FUTURE OF DEFENCE

The power of artificial intelligence is "so incredible, it will change society insome very deep ways" - BILL GATES.

Artificial intelligence in the military has the potential to change the world. However, it does not come without its fair share of controversy, which prevents it from easily doing so. Movies like the Terminator series caused military grade AI to get a bad reputation, as they created the baseless fear that AI would take over the planet if they were to acquire the weapons of war, whether that be something as small as a gun or something as big and dangerous as a nuclear weapon.

Al can solve many of the issues that the military faces today, and the opportunity to use it in defence should not be wasted and overlooked because of fears of the fabled "singularity", the theoretical event in which Al becomes able to perceive and rebels against its human masters.

There are many modern examples of the applications that AI has in the military such as drones, or unmanned air vehicles. These vehicles plays vital role in the wars in Iraq and Afghanistan. Although drones were not used as autonomous weapons, they were still used as autonomous surveillance systems. According to recent research, In 2011 alone, the US Air Force gathered over 325,000 hours 37 years- worth of drone video.

However, there is definitely room for improvement. The military does not have the manpower or resources to review all of the video that these drones collect. So, the military wants to create new AI that can review this data faster than any human could ever hope to do, which they hope to achieve in the near future. The form of AI that the military wants to improve upon and develop for the future is autonomous weaponry. According to the United States Department of Defense, the definition of autonomous weaponry is "a weapon systems that, once activated, can select and engage targets without further intervention by a human operator."

In essence, this means that the weapon is completely self-sufficient, it does not need a person to tell it what to do or operate it. The fact that it is completely autonomous is a major benefit for the military, as unlike human soldiers, these autonomous weapons systems can operate for long periods of time at peak efficiency without the need to eat sleep, or drink. They also do not need to be paid. Aside from a practical benefit, they also have a moral benefit too, if an autonomous weapon gets destroyed by the enemy, it is a lot less tragic than if a soldier gets killed in combat.



According to NATO "Allowing a machine to 'decide' to kill a human being undermines the value of human life." Even though AI can decide when and when not to attack the enemy, it still has to follow many different algorithms and calculations to see if it is the best course of action to do so. Also, using these advanced weapons of war do not undermine the value of human lifein fact, they reinforce it. By using machines in war, militaries are using fewer humans and with fewer humans, comes fewer casualties, and therefore less heartbreak, grief, and sadness.

Artificial intelligence has many useful applications in the military today, and will continue to show that it has more in the coming years. However, this can only happen if people support the use of AI in the military. People must set their fears of a science fiction scenario aside, and focus on the more real and positive aspects of AI that is that it is quicker, more efficient, and more cost effective compared to humans. It can also take dangerous or challenging tasks in the military and make them less so. The expansion of artificial intelligence in the military can revolutionize modern warfare, potentially as much as the nuclear weapon or even the gun did. But this can only happen with public support, time, and effort.

ARTICLE BY
BHUVANESHWARI M
Final year

DATA SCIENCE - THE CRAZIEST JOB OF TWENTY FIRST CENTURY

21st century is going to be the technology era in the history. Each and every people in this century is men tangled with the data in their daily life. Even though, our life depends on the technologies even for basics, the technology greatly depends on the nature and the structure of the data. Ultimately, the life of every humans in this world greatly depends on the data. Data scientist is the most demanding job till the data exists and it is believed to be at its peak in this data-driven world. The most demanding skills to a data scientist is the understanding of the structure of the data, statistics, programming and analysing. The role of

Data science in the business arena is inevitable as it bridges the gap between the IT knowledge and business knowledge by solving the busness related issues like which factors decline the company's profit, which product makes less profit, etc.. By analysing the data using the past records, helps in knowing the strength and weakness of a company thereby helps to uplift its growth in future.





But now-a-days, the data scientist slowly move their journey towards other fields as well. Not only for the business growth, even in sports like cricket, Data science has been applied to analyse and visualize the throw of a ball and predicting the winning team of a match using the previous head-to-head match records.

The vital role of data science is extended to the medical and the fraud detection. In medical field, the data science can be applied for predicting which kind of drugs has to be given to the patients based on their symptoms. This prediction, which was manual earlier, is made simpler by building a model using the appropriate algorithms. This brings the IT and medical knowledge closer.

Fraud is a major problem in e-commerce as there is as increasing use of internet for shopping ,banking,filing insurance claims,etc,.The traditional methods to identify the fraud is rule-based which was established manually.The data science and machine learning techniques can gives an optimal solution by building a model which collects the previous transactions and other related records to predict the fraud in future.

Application of Data science is not constrained in the above mentioned fields only. It has a great scope in almost all the fields. Data scientists are like modern-day super heroes where they have the enormous power to identify the opportunities and used them in the right path.

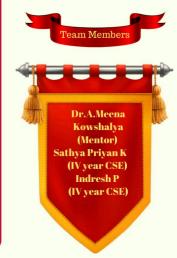
ARTICLE BY
KOKILA VVARSHINI D N
Final year





WINNER OF NATIONAL CONVENTION OF 2ND AICTE-ECI-ISTE VISWHAKARMA AWARDS 2018 FOR THE PROJECT TILTED "SMART IRRIGATION SYSTEM





he team "INIT GCT" from Government College of Technology won the AICTE-ECI-ISTE Chhatra Viswhakarma Awards - 2018 for the project titled "SMART IRRIGATION SYSTEM". The team scored 3rd position by presenting an innovative solution / prototype under the theme "Empowerment of Villages Through Technologies".

The farm fields of farmers are situated miles away from their home. Sometimes they need to go to their fields for several times in a day to start and stop the irrigation water pumps.

Power is yet a limited resource in many of the parts of the villages around India. Farmers cannot come to the field often and they find difficult to protect the crops from the unconditional rain. No one stop solution exists for power, unconditional natural calamities and water problems. Also, pests in paddy crops are nightmares for farmers stealing their sleeps. Through this project

"Smart Irrigation System" develop a device that can monitor the moisture content of the soil and turn on the water pump automatically whenever the moisture drops below a threshold value. The pests around the paddy crops are monitored through motion sensors and reverted to the farmers to necessary action. The setup is selected for its realtime, user-friendliness, flexibility and availability at low cost. The technology allows users to use smart mobile (via app) to control farm field activities through Internet/Wireless Network. The main aim of this project is to demonstrate the economic feasibility of advanced computerized production technologies. Failure loop handle back is designed to rectify the failures. Currently, we are exploring mini drones to monitor and control pests. Also, the external power supply is to be replaced by solar power.

BOSCH SMART STUDENT AWARD

Robert Bosch Engineering and Business Solutions Pvt Ltd (RBEI) organised Bosch Smart Student Award at the institution on Feb 28th 2019. Over 200 students applied for the award where as 20 students were shortlisted based on various criteria. The students had to undergo an interview by a panel and 6 students were awarded, among which the following two students from CSE, SATHYAPRIYAN K AND PRIYADARSINI R were recognized as Bosch Smart Students. Both the students received letters of appreciation and a scholarship of Rs.40000 each from the Principal and HRs of RBEI.



FINALIST OF SMART INDIA HACKATHON 2019 - SOFTWARE EDITION





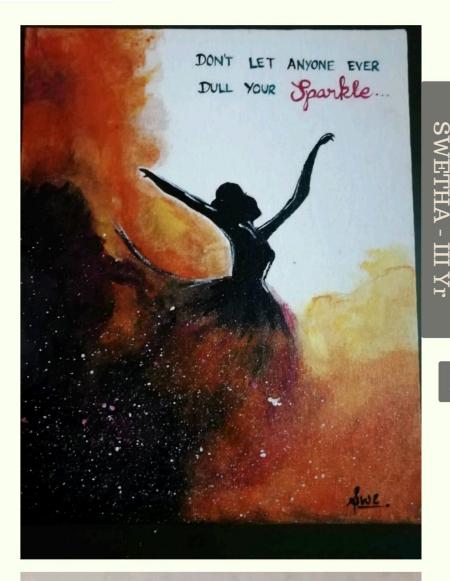
Ministry of the Problem Statement : Ministry of Road Transport and Highways, Government of India

Problem Statement Title: Black spot alert on mobile phones of travelers.

Technology Bucket: Software - Mobile App Development

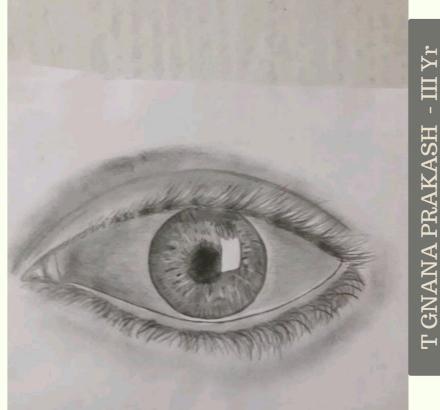






KARTHIKA TS - III Yr







Editorial Board

Faculty Team

Dr. J C Miraclin Joyce Pamila Associate Professor & HoD

> Dr. S Rathi Associate Professor

Prof. L Sumathi Assistant Professor

Student Team

Mr. K Sathyapriyan Editor

Mr. Lartum Raksap Designer

> Ms. S Anmita Writer

CSE Association

Dr. J C Miraclin Joyce Pamila Associate Professor & HoD

Prof. L Sumathi Association Faculty Incharge

> Mr. R Pradeep Genreal Secretary

> > Ms. M Dharani Joint Secretary





CLUB ACTIVITES

TEDXGCT

Dr. J C Miraclin Joyce Pamila Faculty Incarge

Mr. K Sathyapriyan LIcensee

Ms. Kokila Vvarshini Web Operations

SAE BAJA TEAM

Mr. K Sathyapriyan Web Operations Lead

The Literary and Debating Society

Mr. K Sathyapriyan
Web Operations Lead
and
Event Coordinator

Rotaract GCT

Board Members 2019-2020

Sharmila C

Director of Club Service

Shruthi A

Treasurer

Radhika M

Director of Web Service

Swarna Nila

Director of Empowerment

Tamizh Mandram

Student Association

Gayathri V

Event Coordinator

Pavithra S

Event Coordinator

Mona Shree D

Event Coordinator

Binu Judith J T

Event Coordinator

INTERACTION WITH THE OUTSIDE WORLD

The Students of the CSE Department are active members of the following community groups showcasing the interest in various domains.

- Google Developers Group(GDG) Coimbatore
- Google Cloud Developers Group (GCDG) Coimbatore
- Geeknight Community ThoughtWorks,
 Coimbatore
- Microsoft Developers Community Coimbatore
- Front End Developers Group Coimbatore



SPORTS ACHIEVEMENTS

STUDENT	EVENT	POSITION
P GOKUL RAJ	400 ZONE 19	3rd
	4X400 RELAY ZONE 19	3rd
	4X100 RELAY ZONE 18	2nd
	4X100 RELAY ZONE 18	2nd
SILAMBARASAN A	HALF MARATHON	2nd
	HALF MARATHON ZONE 1	9 2nd
	10000 MTS	2nd
NARMATHA R	DISCUS THROW INTERZON	IE 1st
NARMATHA R	JAVELIN THROW	1st
KARTHIKA M	LONG JUMP ZONAL	3rd

NPTEL CERTIFICATION HOLDERS - ELITE CATEGORY

- Sharmela C III Year
- Srisaranya C III Year
- Priyavadhani S III Year
- Dhinakarn R III Year
- Deepika M III Year
- Maariappan J III Year



மனிதி

உன் முகம் மதியென்றும் உன் விழி சுடரென்றும் வருணித்த கவிதைகள் போதும்..... உன் பார்வை புதிதென கூறினால் போதும்!!! நீ ஒரு பூவென்றும் உன் இதழ் தேனென்றும் கூறிய கற்பனைகள் போதும்...... உன் திறன் முழுமையென கூறினால் போதும்!!! உன் உடல் அழகென்றும் உன்வளைவுகள் அழகென்றும் கூறிய ஜாலங்கள் போதும்..... உன் செயல் அழகென கூறினால் போதும்!!! அவள் அழகில் இல்லை வர்ணம், செயலில் உள்ளது.... மாற்றிடு உன் பார்வையை !!!

T.S.Karthika
Pre Final year
CSE

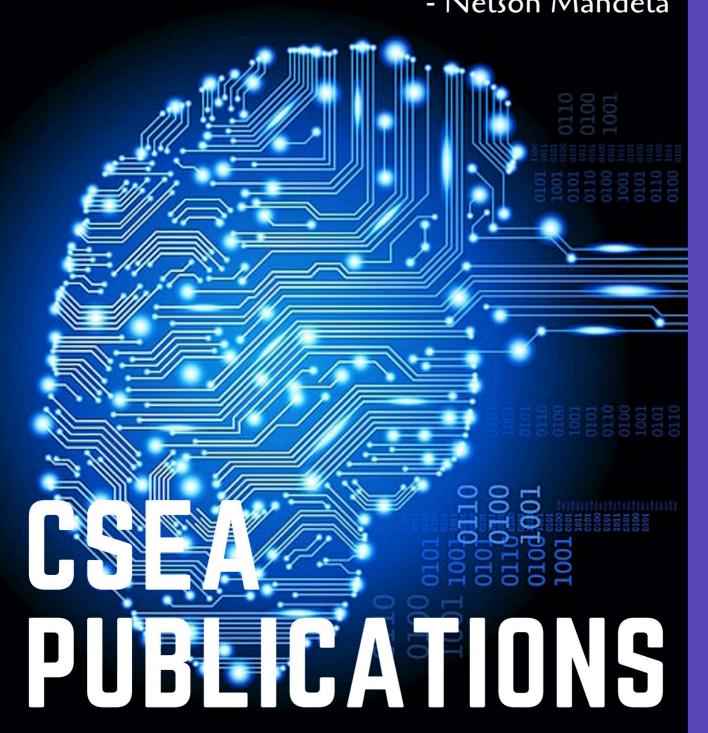
அம்மா

உனக்காக கவிதை எழுத எண்ணினேன் தீர்ந்து போனது என் பேனா மையும் புத்தகங்களும் மட்டுமே... உன்னை நான்கு எழுத்துக்களில் அடக்கினேன், உலகம் என்னும் வார்த்தையால்... மூன்று எழுத்துக்களில் அடக்கினேன், அம்மா என்னும் வார்த்தையால்... இரண்டு எழுத்துக்களில் அடக்கினேன், தாய் என்னும் வார்த்தையால்... உன்னை அடக்கி உனக்குள் என் உலகம் அடங்கியதே என் தேவதையே!

P.Thenmozhi Pre Final year CSE



"It always seems impossible until it's done" - Nelson Mandela



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING GOVERNMENT COLLEGE OF TECHNOLOGY





GOVERNMENT COLLEGE OF TECHNOLOGY, COIMBATORE - 18

(AN AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI)



DEPARTMENT OF ECE

Proudly Presents

NEXUS 2K20

A NATIONAL LEVEL TECHNICAL SYMPOSIUM

TECHNICAL

Digitronix

Circuitrix

Developers Hub

Techquiz

Paper Presentation

Project

MARCH - 23

Registration Fees:

Events - Rs. 150/-

Paper Presentation - Rs. 200/-

Project - Rs. 200/-

Time: 9 am

Venue: ECE seminar hall

Last date for Paper/Project submission: 19/03/2020



gcteceians

M paper.nexus2k20@gmail.com

M project nexus2k20@gmail.com

NON-TECHNICAL

E - Spirit

Vibrance

10+ Fun events

REGISTER @

www.gctecea.in

CONTACTS:

HITHESH - 8508757385

SHARUKDEEN - 8344513259





GOVERNMENT COLLEGE OF TECHNOLOGY, COIMBATORE - 13
(AN AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

2/2

DEPARTMENT OF ECE

NEXUS 2K20

MAR 24 2020

ONE DAY WORKSHOP ON:

"ARTIFICIAL INTELLIGENCE"

- Step into the future

"Laptop is Mandatory"

"Hands on Training"

"Lunch will be provided"

REGISTRATION FEE:

RS.400 (per student)

Time: 9 am

Venue : Ece seminar hall

Contacts:

HITHESH - 8508757385

SHADUKDEEN 994481998

REGISTER @

www.gctecea.in



gcteceians







GOVERNMENT COLLEGE OF TECHNOLOGY, COIMBATORE – 13 ADMINISTRATION ASPIRANTS COUNCIL

Guide to Crack UPSC

A session conducted on 30/07/2019 from 4 pm to 6 pm among the GCT Civil Service aspirants, under the guidance of Mrs. Ravindra devi Revathy, Associate Professor, Physics department with the help of Mr. Jagdeesan, IFS Officer, GCT Alumni, to share his valuable guidance which was helpful for the effective utilization of the aspirants time during their preparation for UPSC – Civil Service Examination. Around 70+ students of GCT were benefited by this guidance program.

Art of Reading Newspaper

A series of weekly session inaugurated on 21/08/2019 for the Civil Service aspirants of GCT from 4:45 pm to 6 pm, organized by AAC to share news paper reading strategies and techniques to crack UPSC Civil Services exam which still continues is a beneficial one for a lot of students from GCT.

AAC EVENING SESSION





have some interesting conversation with fellow students which helps in the preparation of UPSC - CSE.

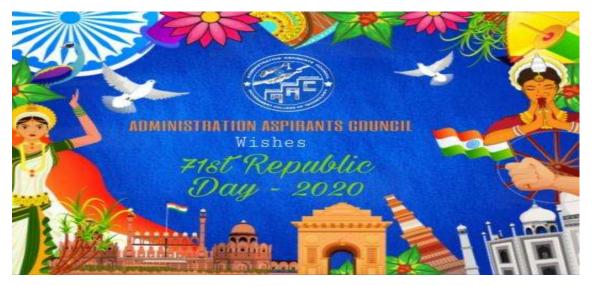
BRAHMASTRA – Morning Class

Brahmastra - AAC's crucial initiative in the path of civil services preparation of aspirants. The objective of Brahmastra is to conduct morning classes which focuses on five basic subjects of UPSC Prelims. The classes are conducted every morning in AAC library for GCT UPSC aspirants by passionate student faculties. This class strengthens the foundation for Civil Services Exam and boost the preparation.



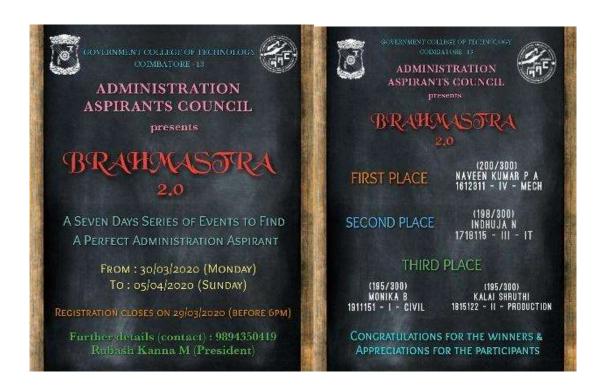
Republic Day Celebration

This event is conducted on 26/01/2020 by AAC to celebrate the Republic Day of India by releasing a wishes poster. This event was attended by 80+ students of GCT.





This is a seven days series of events to find the perfect administration aspirant of GCT among the 100+ registered participants of GCT done from 30/03/2020 (Monday) to 05/04/2020 (Sunday). This is an online test series-based event by providing daily model UPSC mains exam question at every morning 9am and model UPSC prelims questions at every evening 5pm along with the providence of UPSC model question papers and evaluation of those answer sheets and finally consolidating the most perfect administration aspirant of GCT and appreciated them by releasing a congratulations poster. Later a gist of the questions and answers of those events was provided to the students of GCT.



NATIONAL CIVIL SERVICES DAY CELEBRATION

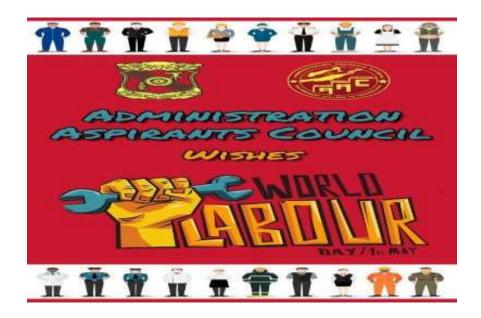
This event is conducted on 21/04/2020 by AAC to celebrate the Steel Frame of India who are our Indian Bureaucrats by releasing a wishes poster.





WORKERS DAY CELEBRATION

This event is conducted on 01/05/2020 by AAC to celebrate the support system of India who are our Indian workers by releasing a wishes poster.



MASTER -

This is a three days series of events to provide mentorship for UPSC Civil Service Aspirants of GCT among the 150+ registered participants of GCT done from 06/05/2020 (Wednesday) to 08/05/2020 (Friday). This is an online mentorship providing event by AAC panel members to the student aspirants of GCT by providing them the required material resources for UPSC Civil services preparation and mentorship through various online platforms. This event also includes the providence of Daily news paper analysis session every evening 5pm to enrich the current affairs knowledge of the participants of GCT.



MASTER TALK -

This is a webinar session conducted on 10/05/2020 at 5 pm to 7 pm by AAC for the GCT civil service aspirants with the help of Mr. S. Karthikeyan, IRTS who secured All India Rank 731 in UPSC – 2017 to share his success strategies for clearing UPSC civil services exam. This webinar was attended by 50+ students of GCT.



ORIENTATION ON TACKLINGPROBLEMS DURING UPSC PREPARATION –

This is a webinar session conducted on 23/05/2020 at 4 pm to 6 pm by AAC for the GCT civil service aspirants with the help of our GCT alumna Mrs. Rajitha Shivashankar with UPSC experience of two interviews (2007, 2008) and All India Rank 7 in CASE exam to share her experience and strategies for clearing UPSC civil services exam. This webinar was attended by 60+ students of GCT.



Government College Of Technology
Colmbatore-641013

ADMINISTRATION ASPIRANTS GOUNGIL
presents

ORIENTATION ON TACKLING OF PROBLEMS
DURING UPSC PREPARATION
BY OUR GCT ALUMNA

Mrs. Rajitha Shivashankar

UPSC EXPERIENCE
(2 INTERVIEWS)
FACULTY AT SHANKAR IAS ACADEMY

Attend the live via WEBEX app

Purther details (contact):
9894350419 - Rubash Kanna M (President)



GCT MOTORSPORTS TRACTOR DESIGN COMPETITION 2018:

Another big series of achievement is that our hard work and determination paved way for the success in the fresh season of new event organized by Southern Section of SAE as "TDC – a Tractor Design Competition". The team "ASPHALTERS" secured OVERALL WINNERS – SRM UNIVERSITY, CHENNAI.

- BEST TRACTOR DESIGN 1ST
- DURABILITY 3RD











TDC 2019:







Ys Service Club of GCT youth

2019-2020

PROJECTS

GREENCREST







No. of. Series 20:20

Date :9,May 2020

Type of Event : Community Project

Target Audience : Everyone, especially Plant Lovers

It's an event conducted to promote home gardening. We created videos of 15 seconds duration, describing the steps in growing a vegetable from seed preparation to maintaining the plants. Videos are posted in the club's official Instagram account as reels, YouTube as shorts and Facebook. The daily videos cross 1K plays every day in the social media platforms.