



**State Institute of Educational Technology
(SIET)**

General Education Department, Govt. of Kerala

NO: 1076/SIET-S5/NT/2018-19/476

February 08, 2019

To,

Dr. Manikandan Rangaswamy

Assistant Professor
Department of Mathematics
School of Physical Sciences
Central University of Kerala
Thejaswini Hills, Periy P.O
Kasaragod- 671316, Kerala

Subject: Approval of workshop on **Artificial Intelligence and its Applications**- three days residential camp during Feb 15-17, 2019.

Dear Dr. Manikandan Rangaswamy,

This is to inform you that State Institute of Education and Technology (SIET), General Education Department, Govt. of Kerala has approved your proposal for conducting a workshop on **Artificial Intelligence and its Applications**- three days residential camp for 9th standard students to be held at Kerala School of Mathematics, Kozhikode during **Feb 15-17, 2019**.

In this connection, OSIET Kerala has appointed Dr. Manikandan Rangaswamy as the coordinator and Dr. Thasleema T.M as the joint coordinator for the smooth conduct of the workshop.

A list containing the names of selected students is attached herewith.

Thanking You,



for 
**DIRECTOR
SIET KERALA**



Department of General Education
Government of Kerala

Three-Days Residential Camp Workshop on Artificial Intelligence & Its Applications

Venue:

Kerala School of Mathematics (KSOM) - an institution
under KSCSTE, Govt. of Kerala, Kunnamangalam P.O.,
Kozhikode.

February 15 – 17 2019

Organize by



STATE INSTITUTE OF EDUCATIONAL TECHNOLOGY

In association with



CENTRAL UNIVERSITY OF KERALA

&



Welcome Message

As part of State government's education rejuvenation mission, State Institute of Educational Technology (SIET) has embarked upon a series of new initiatives to bring up promising students to a level of international reckoning. Workshops on new technologies like Artificial Intelligence, Nano Technology and Bio Informatics are being conducted, SIET in association with Central University of Kerala and Kerala School of Mathematics conducting a workshop on artificial intelligence at Kerala School of Mathematics (KSOM) on 2019 February 15-17 for high school students. Artificial Intelligence & its Applications are included in this three days residential programme. There will be laboratory sessions and interactions. We request your wholehearted support for the success of this programme.

Dr. Anitha A. B
Director KSOM

Shri B.Aburaj
Director SIET

State Institute of Educational Technology

State Institute of Educational Technology (SIET) Kerala is the premium institution in developing academic digital contents. The activities of the institute include trainings for teachers, development of ICT tools for enriching teaching learning process, talent hunt programmes for students, personality and career development camps, research, publications, on - line capacity building exercises for managing digital resources for teachers etc. All Kerala Educational Children's film festival of SIET is a major techno -

cultural event of the state. The executive committee, Minister for General Education as Chairman and Secretary, Gen. Education as Vice Chairman as director takes decision on the programmes and policies. SIET Kerala bagged five national awards for best digital contents in 2016, 2017 and 2018. SIET also develops on line courses for different universities.

Central University of Kerala

The Central University of Kerala (CUK) is one of the 15 new Central Universities established under "The Central Universities Act, 2009 (Act No.25 of 2009)". CUK aims to extend the scope of learning through a holistic methodology that accommodates diverse linguistic, scientific and cultural traditions. CUK is situated at Kasaragod, the northern-most district of Kerala and has state-wide jurisdiction. The permanent campus of the University is being set up at Periyar on a panoramic stretch of 310 acres of land beside the National Highway. Twenty-one academic departments as well as the administrative wings of the University are functioning in the permanent campus.

Kerala School of Mathematics

Kerala School of Mathematics (KSOM), an institution meant for advanced learning and research in Mathematics, is a joint venture of Kerala State Council for Science, Technology and Environment (KSCSTE), Government of Kerala and Department of Atomic Energy (DAE), Government of India. It is built in the traditional Kerala style architecture and is located in a picturesque setting surrounded by serene hillocks and lavish greenery. It is at a distance of about 15 km. from the seaside city Kozhikode in Malabar region of Kerala, India.

About the Workshop

Bringing together elements of computer science, engineering and cognitive studies, artificial intelligence (AI) is a branch of computer programming that programs computers to 'think' and act in certain ways in order to mimic human intelligence. Although involved in the creation of intelligent machines, artificial intelligence is largely concerned with the creation of intelligent computer programs that can be installed into machines. When talking of 'intelligence' in terms of computers, what's meant is really human perceptions of intelligence, such as the capacity to store information, solve problems, use reasoning, communicate and interact with the physical world. Applications of programmed intelligence include search engines, networking applications and to stop online fraud. This idea of artificial intelligence is still in its progressing stage, meaning the career potential may be greater than we can currently imagine.

We are planning to conduct a workshop on Artificial Intelligence & its Applications – three days residential camp, as part of the science enrichment program for the selected 9th standard Govt/Aided school students in each district. Subject area covered includes Artificial Intelligence, Internet of Things, and Mathematics in Artificial Intelligence.

Resource Persons

Dr. Srikanth N.S, Senior Scientist, Centre for Development of Advanced Computing (C-DAC), Bengaluru, Karnataka

Dr. R. Rajesh, Associate Professor, Department of Computer Science, Central University of Kerala, Kasaragod.

Dr. A. K Vijayarajan, Associate Professor & Director (i/c) of Kerala School of Mathematics (KSOM)

Dr. Thasleema T.M, Assistant Professor, Department of Computer Science, Central University of Kerala, Kasaragod.

Dr. Manikandan Rangaswamy, Assistant Professor, Department of Mathematics, Central University of Kerala, Kasaragod.

Dr. Shaini P, Assistant Professor, Department of Mathematics, Central University of Kerala, Kasaragod.

Dr. Gnanavel Sundararajan, Assistant Professor, Department of Mathematics, Central University of Kerala, Kasaragod

Coordinator

Dr. Manikandan Rangaswamy
Assistant Professor
Department of Mathematics
Central University of Kerala, Kasaragod

Joint Coordinator

Dr. Thasleema T M
Assistant Professor
Department of Computer Science
Central University of Kerala, Kasaragod

Technical Programme Committee

Shri B. Aburaj
Director, State Institute of Educational Technology (SIET), General Education Department, Govt. of Kerala

Dr. R. Rajesh
HOD & Associate Professor
Department of Computer Science
Central University of Kerala, Kasaragod

Dr. A. K. Vijayarajan
Associate Professor
Kerala School of Mathematics, Kozhikode

Dr. Shaini P
Assistant Professor
Department of Mathematics
Central University of Kerala, Kasaragod

Dr. Gnanavel Sundararajan
Assistant Professor
Department of Mathematics
Central University of Kerala, Kasaragod

Dr. T.V. Vimalkumar
State Programme Coordinator –Sastra Jalakam,
State Institute of Educational Technology (SIET)
General Education Department, Govt. of Kerala

Trainers

Mr. Fasil O K, Research Scholar, Department of Computer Science, Central University of Kerala, Kasaragod.

Mr. Shyamkrishnan M S, Research Scholar, Kerala School of Mathematics, Kozhikode.

Mr. Sreejith M M, Research Scholar, Kerala School of Mathematics, Kozhikode.

Mr. Abdul Jaleel, Research Scholar, Department of Mathematics, Central University of Kerala, Kasaragod.

Mr. Amith, M.Sc Student, Department of Computer Science, Central University of Kerala, Kasaragod.

Mr. Firoz Ahammed T, M.Sc Student, Department of Mathematics, Central University of Kerala, Kasaragod.

Ms. Greeshma, M.Sc Student, Department of Mathematics, Central University of Kerala, Kasaragod.

Mr. Hemand Harikumar, M.Sc Student, Department of Mathematics, Central University of Kerala, Kasaragod.

Mr. Prakash P, M.Sc Student, Department of Mathematics, Central University of Kerala, Kasaragod.

Ms. Ashwani K B., M.Sc Student, Department of Mathematics, Central University of Kerala, Kasaragod.

How to reach at KSoM:

*The KSoM is located at a distance of about 12Kms from the Kozhikode city centre (train/bus Stations) situated off the Kozhikode-Medical College-**Kunnamangalam** bus route. If you choose to travel from the city to KSoM by bus, catch one from the Palayam Bus Station (also known as the Old Bus Stand) going in the above route (there is a bus in about every 10 minutes) and get down at a bus stop called '**Mundikkalthazham**' which is a few stops after the more prominent Medical College Bus Stop. The KSOM is by the side of a bye lane leading to Peringolam from this bus stop and at a distance of about 2Kms. Alternatively you can take a bus from the Kunnamangalam Bus Station to 'Peringolam' and walk up a hill to reach KSoM.*

Note:

There is no registration fee. Food and accommodation will be providing at Kerala School of Mathematics, Kozhikode.



Day – 1 (15-02-2019)	
TIME	ACTIVITY
9.00 am	Registration
9.30 am-10.15 am	Inauguration & Tea break
10.30 am - 11.45 am	'Artificial Intelligence: Future Technology Perspectives' by Dr. Sreekanth N. S.
11.45 am – 1 pm	'Introduction to Internet of Things' by Dr. R. Rajesh.
1.00 pm -2.00pm	Lunch Break
2.00 pm – 3 pm	'Interactive Session' with Dr. A. K Vijayarajan, Associate Professor of Kerala School of Mathematics (KSOM).
3 pm – 3.15 pm	Tea break
3.15 pm – 4.30 pm	'Introduction to ALICE & SCRATCH - Enjoyable Programming (Practical session)' by Mr. Fasil O.K.
4.30 pm – 5.30 pm	'Getting Start with Robotic Programming- an inspiring talk ' by Devanand K*, 5 th Std. student, SFS Public School Bengaluru.
6 pm – 7.00 pm	'Cryptology- an introduction' by Mr. Sreejith M M
7 pm – 8 pm	Students Interaction with Resource Persons

Day – 2 (16-02-2019)	
9.15 am – 10.30 am	'Frontiers of Artificial Intelligence' by Dr. Thasleema T.M.
10.30 am – 10.45 am	Tea Break
10.45 .00 am- 12.00 pm	'Milestones in the history of MERSENNE PRIME SEARCH' by Dr. Shaini P.
12. 15 pm – 1.00 pm	'Hands on training with basics of Computer Science' by Mr. Fasil O K and Mr. Amith
1. 00 pm – 2.00 pm	Lunch Break
2.00 pm – 3.15 pm	'Hands on training with basics of Computer Science' by Mr. Fasil O K and Mr. Amith
3.15 pm – 3.30 pm	Tea break
3.30 pm – 5.30 pm	'Mathematical Excursion' by CUK-MATH & KSoM
6 – 8	Cultural Activities / General Awareness program etc
Day -3 (17-02-2019)	
8.30 am – 9.45 am	'Mathematical Logics in Artificial Intelligence' by Dr. Gnanavel Soundararajan.
9.45 am – 11.00 am	'Probabilistic Reasoning -an introduction' by Dr. Manikandan Rangaswamy.
11.00 am – 11.30 am	Tea Break
11.30 pm – 12.45 pm	'Mathematical Quiz' by Dr. Shaini P
1.00 p.m – 2.00 p.m	Lunch Break
2.00 p.m – 2.30 p.m	Photo Session
2.30 p.m – 3.30 p.m	Valedictory function & Certificate Distribution

Workshop on Artificial Intelligence its Applications

Venue - **Kerala School of Mathematics (KSOM), Kunnamangalam P.O, Calicut.**

Date - **Feb 15, 16 & 17**

Co-ordinator - **Dr. Manikandan Rangaswamy (M) 94477 20279**

SLNO	Name	School
1	LADHEEDA S K	Arikkulam KPMSM HSS
2	KHADEEJA T N	Atholi GVHSS
3	ANAMIKA C	Avalakutthoth GHSS
4	VISHNU N	Azchavattam HSS
5	MUHAMMED THASLEEM P	Chathamangalam R.E.C G.VHSS
6	PRANAV BIJU P M	Chelannur S.N.Trust HS S
7	ANJAL MUHAMMED U P	Chennamangallur HSS
8	MUHAMMED SHIBIL C V	Cheruvannur HS
9	RITHIK GOPAL E M	EMS HSS Perumanna
10	ANN GEO M GEORGE	Eranhikkal P.V.S.HSS
11	HISANA NASRIN TH	Kakkodi HSS
12	HARIPRIYA C.H	Karuvampoyil HSS
13	MALAVIKA.B.AJAY	Kavilumpara GHS
14	ADWAITH.	Kodiyathur P.T.M. HSS
15	AMAN VP	Koduvally HSS
16	JISHNU T K	Koyilandy Boys GVHSS
17	SANHA RAHMAN	Kozhikode Providence Girls HSS
18	VISHNUPRASAD V R	Maniyur GHSS
19	KISHAN DEV. C	Meppayur GVHSS
20	ADITHYA.P	Mukkam HS
21	SOURAV T K	Naduvannur HSS
22	FATHIMA FARSANA.K.P	Nallalam HS
23	YAZIN FAISAL	Nanminda HSS
24	HADHIYA	Neeleswaram HSS
25	NAHIL RASHEED	Nochat HSS
26	JASRA M K	Orkatteri KKM GVHSS
27	AMAL SHAJI	Patathikadavu HFHS
28	ASWIN	Payambra HSS
29	VISHNUPRIYA A.S	Payyoli GVHSS
30	GOURINANDANA J R	Perambra HSS
31	SNEHA S KUMAR	Poonoor GHSS

Workshop on Artificial Intelligence its Applications

32	SWALAHUDHEEN KR	Poovambayi AMHSS
33	SHEBIN SEBASTIAN	Pulloorampara St. Joseph's HSS
34	HASNA NUBIN K.P	Puthuppady HSS
35	AKHIN V	Puthuppanam JNMGHSS

RESERVE

36	GOUTHAM KRISHNA . S	Ramanattukara Sevamandir Post Basic HSS
37	THEJAS R	Vadakara GHSS
38	NIHAD T	Vatakara MUMVHSS
39	ASHALAKSHMI D S	Vattoli National HSS
40	MANASA.M	Vattoli Sanskrit HS

സമ്മതപത്രം

From:

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To,
Headmaster/Headmistress

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സ്റ്റേറ്റ് ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് എഡ്യൂക്കേഷണൽ ടെക്നോളജി (എസ്.ഐ.ഇ.ടി) നടപ്പാക്കുന്ന Artificial Intelligence ശിൽപ്പശാലയിലേക്ക് ബന്ധം ക്ലാസ്സിൽ പഠിക്കുന്ന എന്റെ മകൻ/മകൾ നെ തിരഞ്ഞെടുത്തിട്ടുണ്ട്. ഫെബ്രുവരി 15, 16, 17 തീയതികളിലായി Kerala School of Mathematics, Kunnamangalam, Kozhikode വച്ച് നടക്കുന്ന റസിഡൻഷ്യൽ പരിശീലന പരിപാടിയിൽ പങ്കെടുപ്പിക്കുന്നതിന് എനിക്ക് സമ്മതമാണ്.

എന്ന്,
രക്ഷകർത്താവ് ഒപ്പ് :

രക്ഷകർത്താവ് പേര്:

സാക്ഷ്യപത്രം

സ്റ്റേറ്റ് ഇൻസ്റ്റിറ്റ്യൂട്ട് ഓഫ് എഡ്യൂക്കേഷണൽ ടെക്നോളജി നടപ്പാക്കുന്ന പൊതുവിദ്യാഭ്യാസവകുപ്പിന്റെ Artificial Intelligence ശിൽപ്പശാലയിലേക്ക് തിരഞ്ഞെടുക്കപ്പെട്ട മാസ്റ്റർ/കുമാരി ഈ സ്കൂളിൽ 9-ാം ക്ലാസ്സിൽ പഠിക്കുന്ന വിദ്യാർത്ഥിയാണെന്ന് സാക്ഷ്യപ്പെടുത്തുന്നു.

എന്ന്,

ഹെഡ്മാസ്റ്റർ/ ഹെഡ്മിസ്ട്രസ്സ്

(സീൽ)