

No. INSPIRE INTERNSHIP/6/2018-19/9
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF SCIENCE AND TECHNOLOGY
(INSPIRE PROGRAM)

Technology Bhawan
New Mehrauli Road
New Delhi-110 016
Date: 4th October, 2018

SANCTION ORDER

Subject: Financial assistance for organizing the INSPIRE Internship Science Camp (Ref. no.DST/INSPIRE/01/2017/000784) during 23-27 December, 2018 at Central University of Kerala, Tejaswini Hills, Kasaragod, Kerala- 671316.

PI: Dr. Sudha Kappalli, Associate Professor/Program Co-ordinator, Department of Animal Science, Central University of Kerala, Tejaswini Hills, Kasaragod, Kerala- 671316.

Sanction of the President is hereby conveyed for the organization of above mentioned INSPIRE Internship Science Camp for 150 students during 23-27 December, 2018 at Central University of Kerala, Tejaswini Hills, Kasaragod, Kerala- 671316 at a total cost, General component, not exceeding Rs. 9,75,000/- (Rupees Nine Lakh and Seventy Five Thousand only).

2. Sanction of the President is also accorded to the General component release of Rs. 8,00,000/- (Rupees Eight Lakh only) to the Central University of Kerala, Tejaswini Hills, Kasaragod, Kerala- 671316 as the initial grant for organizing the above mentioned program and the final release will be made on receipt of Utilization Certificate and Statement of Expenditure from the host Institute.

3. It is certified that travel by Air/Rail/Road (Car/Taxi etc.) in this case is urgent and considered necessary in the public interest. The sanction of the President is also accorded to the performance of Journey by Air/Train (1st Class/AC2tier/AC3tier) /Road (Own Car/taxi etc.) by the participants as per their entitlement in their parent organization.

4. Host Institute will furnish financial records in the form of the Statement of Expenditure and Utilization Certificate duly reflecting the interest earned/accrued on the above received amount by them along with INSPIRE Internship Science Camp completion Report to DST. After receiving these documents, DST will release the next/Final installment amount if applicable. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and final completion report within one year from the scheduled date of completion.

5. The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing bank account. For Grants released during F.Y. 2017-18 and onwards, all interests and other earnings, against released Grant shall be remitted to Consolidated Fund of India, immediately after finalization of accounts, as it shall not be adjusted towards future release of grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure/Utilization Certificate for considering subsequent release of grant/closure of project accounts.

6. The expenditure involved is to be debited to

Demand No. 84 – Department of Science and Technology
3425: Other Scientific Research (Major Head)
60 – Other (Sub-Major Head)
60.200 – Assistance to other Scientific Bodies (Minor Head)
68 – Science & Technology Institutional and Human Capacity Building
68.00.31 – Grant-in-aid General for the year 2018-2019 (Voted)
(Previous: 56.03.31 – Alliance and R&D Mission)


7. The amount of Rs. 8,00,000/- (Rupees Eight Lakh only) will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to the Central University of Kerala, Tejaswini Hills, Kasaragod, Kerala- 671316. The bank details for electronic transfer of funds through RTGS are given below:-

Cont...2/-



Name of the Account Holder: Central University of Kerala, Tejaswini Hills, Kasaragod, Kerala- 671316.
Bank Name: Canara Bank
Account No.: 0711101068500
IFSC Code: CNRB0004111


8. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C&AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.
9. The grantee organization will have to enter & upload the utilization certificate in the PFMS portal. The subsequent /final installment will be released only after confirmation of the acceptance of the UC by online portal and of entry of previous UCs' by the division.
10. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Department of Science & Technology should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.
11. Failure to comply with the terms and conditions of the scheme will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.
12. The sanction issue under the powers delegated to the Ministries and with the concurrence of the Integrated Finance Division, Department of Science and Technology vide their Dy. No. C/3177/IFD/2018-19 dated 04.10.2018.
13. The Sanction Order is entered vide INSPIRE Sl. No. 35W in the Register of Grants.


(Dr. Umesh K. Sharma)
Scientist -E

Copy forwarded for information and necessary action to :-

1. Copy with two spare copies of the sanction to the Drawing and Disbursing Officer, DST, New Delhi.
2. Pay & Accounts Officer, DST, New Delhi.
3. Sanction Folder, DST, New Delhi.
4. The Principal Director of Audit
A.G.C.R. Building
IIIrd Floor, I.P. Estate
New Delhi-110 002
5. The Registrar
Central University of Kerala
Tejaswini Hills, Kasaragod, Kerala- 671316
6. Dr. Sudha Kappalli
Associate Professor/Program Co-ordinator
Department of Animal Science
Central University of Kerala
Tejaswini Hills, Kasaragod, Kerala- 671316

7. File Copy







(Dr. Umesh K. Sharma)
Scientist -E







Central University of Kerala
INSPIRE Internship Science Camp
December 22 -27, 2018






LIST OF SELECTED STUDENTS

Sl.No	NAME	SCHOOL	PHOTO	% of MARK
C1 1	AMAL NATH V J	GOVT VHSS PARASSALA, TVM DT.		95
C1 2	SAISYAM C S	SNHSS IRINJALAKUDA, THRISSUR		100
C1 3	KRISHNAPRIYA V	SOBHA ICON HSS, PALAKKAD		99
C1 4	MUHAMMAD NADEER CP	PPMHSS KOTTUKARA, MALAPPURAM		95
C1 5	FIDA A S	GHSS KOKKALLUR, KOZHIKKOD		100

C1 6	AFEEFA ANAS	JDT ISLAM HSS, VELLIMADUKUNNU, KOZHIKKOD		95
C1 7	SONU SAJEEV K	IMNSGHSS MAYYIL, KANNUR		100
C1 8	ANURAG K V	J N V, KANNUR		97
C1 9	SANDRA BALAKRISNAN	KENDRIYA VIDYALAYA, KANNUR		95
C1 10	NANDANA KV	K V KELTRON NAGAR, KANNUR		96.4
C1 11	ABHIRAMI A P	G H S S CHEEMENI, KASARAGOD		95
C1 12	RENJANA PRAVEEN KUMAR	D I SABHA GIRLS HSS, KANNUR		95

C1 13	ABDULLAH RISHAD	CJHSS CHEMNAD, KASARAGOD		100
C1 14	ROHITH K V	CHSS CHATTANCHAL, KASARAGOD		100
C1 15	SREELAKSHMI M	GHSS KUNDAMKUZHY, KASARAGOD		98
C1 16	RASITHA P	HHSIBSHSS EDANEER, KASARAGOD		95
C1 17	NANDANA K	JNV KASARAGOD		95.4
C1 18	ABDULLA S.	NSS HSS, PANDALAM PATHANAMTHITTA		97
C1 21	MOHAMMED ARSHAD C.P	PPMHSS KOTTUKARA, MALAPPURAM		95






C1 22	VARSHA WILSON	KV KELTRON NAGAR, KANNUR		95.6
C1 23	SWATHI K NAIR	JNV PERIYE		96
C1 24	NANDANA M KMAMBARAM HHS, KANNUR			96














Central University of Kerala
INSPIRE Internship Science Camp
December 22 -27, 2018






LIST OF SELECTED STUDENTS

Sl.No	NAME	SCHOOL	PHOTO	% of MARK
C2 1	AMALDEV S.K	GHSS KILIMANOOR, TVM DT.		95
C2 3	SURYA R	GVHSS PATHIRIPALA, PALAKKAD		96
C2 4	MUHAMMED BASHEER RABIULLAH K.P	PPMHSS KOTTUKARA, MALAPPURAM		96
C2 5	ARJUN GIRISH	GOVT BT HSS,VADAKARA, KOZHIKKOD		100
C2 6	MASLIJA FIDA R. K	JDT ISLAM HSS, VELLIMADUKKUNU, KOZHIKKOD		99

C2 7	EBRAHIM ASLAH M	PERALASSERY AKGSGHSS, KANNUR		99
C2 8	DEVANAND D	JNV, CHENDAYAD, KANNUR		98
C2 9	ANJALI BALAKRISHNAN	KENDRIYA VIDYALAYA, KANNUR		96.6
C2 10	SWATHI KRISHNA R	JNV, KANNUR		96.6
C2 11	AKSHARA K P	IMNSGHSS MAYYIL, KANNUR		95
C2 12	MANJIMA T	IMNSGHSS MAYYIL, KANNUR		98
C2 13	MOHAMMED IRFAN	CHATTANCHAL HSS, KASARGOD		99

C2 14	ABDULLA SAMEER K.A	C J H S S KASARAGOD		100
C2 15	RIJINA	G H S S PERIYA, KASARAGOD		98
C2 16	ATHULYA A	HHSIB SWAMIJIS, KASARAGOD		95
C2 17	ABHINAND.S	GHSS CHAYYOTH, KASARAGOD		95
C2 18	ANJUSH S	GMBHSS HARIPAD, ALAPPUZHA		97
C2 19	ARUN JAIMON	HFHSS, RAJAPURAM, KASARAGOD		97





C2 20	MUHAMMED MURSHID K C	PPMHSS KOTTUKARA, MALAPPURAM		95
C2 22	HARIPRASAD T	IMNSGHSS MAYYIL, KANNUR		95
C2 23	KRISHNA PRIYA E	JNV PERIYE		96
C224	ABHIJITH SHANKAR P S	KADANNAPALLI HSS		92











Central University of Kerala
INSPIRE Internship Science Camp
December 22 -27, 2018



LIST OF SELECTED STUDENTS

Sl.No	NAME	SCHOOL	PHOTO	% of MARK
C3 1	AKASH S BABU	M V GOVT VHSS, KOLLAM DT.		98
C3 3	SUBINOW C S	GHSS KARIMBA, PALAKKAD		100
C3 4	NAHLA.T	PPMHSS KOTTUKKARA, MALAPPURAM		100
C3 5	NITHUNA SIVANANDAN	RAHMANIYA HSS, KOZHIKKOD		96

C3 6	SHADHA. A.K	ST.JOSEPH GIRLS HSS, WAYANAD		96
C3 7	AVINASH HARI	AKGSGHSS PERALASSERY, KANNUR		99
C3 8	RISHIKESH K V	CHINMAYA VIDYALAYA, KANNUR		95.8
C3 9	ANJANA.J.S.	K V KELTRON NAGAR, KANNUR		95.4
C3 10	MALAVIKA UNNI	KENDRIYA VIDYALAYA, KANNUR		96.4
C3 11	SANJANA T	IMNSGHSS MAYYIL, KANNUR		95

C3 12	DEVIKA SUDEVAN	DIS GIRLS H S S, KANNUR		100
C3 13	VAISHNAV DEV	NSS HSS PANDALAM		97
C3 14	JEEVAN ALOYSIUS	DURGA HSS, KANHANGAD, KASARAGOD		95
C3 15	THERES MARIA PRINCE	ST THOMAS HSS THOMAP, KASARAGOD		95
C3 16	SREENA A	GMRHSS FOR GIRLS, KASARAGOD		100
C317	MUHAMMED NIHAL M	PPMHSS KOTTUKKARA, MALAPPURAM		95
C3 18	ARJUN RAMESH	NSS HSS, PANDALAM PATHANAMTHITTA		95






C3 19	ANGELO SALU	HFHSS, RAJAPURAM, KASARAGOD		97
C3 20	MOHAMMAD SHIFIN P	PPMHSS KOTTUKARA, MALAPPURAM		95
C3 21	AMAL S	NSS HSS PANDALAM, PATHANAMTHITTA		95
C3 22	KRISHNAPRIYA N	GHSS MEDICAL COLLEGE KOZHIKODE		98
C3 23	ABHIJITH P	JNV PERIYE		95
C324	ARCHANA C	SSGHSS KANDANKALI		95

















Central University of Kerala
INSPIRE Internship Science Camp
December 22 -27, 2018







LIST OF SELECTED STUDENTS

Sl.No	NAME	SCHOOL	PHOTO	% of MARK
C4 1	AISWARYA SATHYAN	NSS HSS, PATHANAMTHITTA		100
C4 2	SUJITH S	SOBHA ICON HSS, PALAKKAD		99
C4 3	ANUGRAH M V	IMNSGHSS MAYYIL, KANNUR		95
C4 4	ANSHAD P P	PANDALLUR HSS, MALAPPURAM		96.5
C4 5	NIDHA K T	RAHMANIYA HSS, KOZHIKKOD		96

C4 6	AJAY MARTIN	NIRMALA H S S CHEMPERI, KANNUR		95
C4 7	ABHIRAM P	IRITTY H S S, KANNUR		98
C4 8	AKHIL T V	K V KELTRON NAGAR, KANNUR		100
C4 9	ARYA S NAIR	KENDRIYA VIDYALAYA, KANNUR		95
C4 10	SHILPA SUNIL T	MAMBARAM EMHS, KANNUR		94.8
C4 11	ADISH B GEORGE	NIRMALA HSS CHEMPERI, KANNUR		98
C4 12	AROMAL VIJAYAN	PARASSINIKKADAVU HSS, KANNUR		98

C4 13	VIVEK. C	HHSIBSHSS EDNEER, KASARAGOD		100
C4 14	ASWIN S	G H S S PERIYA, KASARAGOD		98
C4 15	SHREYA C	GHSS KUNDAMKUZHY, KASARAGOD		98
C4 16	NAMITHA P	GHSS BALLAEAST, KASARAGOD		95
C4 17	GOKUL V	G H S S PERIYA, KASARAGOD		98
C4 18	ALAN BENNY	HFHSS, RAJAPURAM, KASARAGOD		97
C4 19	PARVATHY M	GHSS, ANCHAL EAST, KOLLAM		95






C4 20	PRAJWAL K P	HHSIBS HSS KASARAGOD		99
C4 21	ZAMEEL HASSAN	CJHSS CHEMNAD, KASARAGOD		99
C4 22	ASHAL SHAJI	Dr. AMBEDKAR GHSS KASARAGOD		85
C4 23	ABHIMANUE M	JNV PERIYE		98















Central University of Kerala
INSPIRE Internship Science Camp
December 22 -27, 2018







LIST OF SELECTED STUDENTS

Sl.No	NAME	SCHOOL	PHOTO	% of MARK
C5 1	HARIPRASAD	GMBHSS HARIPAD, ALAPPUZHA		97
C5 2	SREELAKSHMI K	SOBHA ICON HSS, PALAKKAD		99
C5 3	DEVIKA CHANDRA	MSP HSS MALAPPURAM, MALAPPURAM		100
C5 4	ADITHYA	PKMMHSS EDARIKODE, MALAPPURAM		98
C5 6	YATHUL P DEEP	GHSS KOTTILA, KANNUR		96

C5 7	PRAYAG S	AKGSGHSS, KANNUR		95
C5 8	ADITHYA P	GHSS IRIKKUR, KANNUR		95
C5 9	SNEHA K V	KV KELTRON NAGAR, KANNUR		100
C5 10	SREEPRIYA V C	KVKN, MANGATTUPARA MBA, KANNUR		100
C5 11	ANASWARA K K	IMNSGHSS MAYYIL, KANNUR		95
C5 12	HARIKRISHNA S THAMBI	GMBHSS HARIPAD, ALAPPUZHA		97

C5 13	ASWIN K	HFHSS, RAJAPURAM, KASARAGOD		97
C5 14	ADITH PRAKASH N K	IMNSGHSS MAYYIL, KANNUR		95
C5 15	VISMAYA S	GMRHSS FOR GIRLS, KASARAGOD		100
C5 16	GOPIKA M V	GHSS BALLAEAST, KASARAGOD		95
C5 17	KRISHNAPRIYA K V	GHSS BALLAEAST, KASARAGOD		95
C5 18	ARSHAK S HABEEB	NSS HSS, PATHANAMTHITTA		95





C5 20	JYOTSNA K	GHSS BALLA EAST KASARAGOD		95
C5 21	PARTHEEV C P	GHSS CHEEMENI, KASARAGOD		95
C5 22	SANDHYA JESSY MARY	NIRMALA PUBLIC SCHOOL ERANAKULAM		96
C5 23	AMAL K	JNV PERIYE		83

















Central University of Kerala
INSPIRE Internship Science Camp
December 22 -27, 2018







LIST OF SELECTED STUDENTS

Sl.No	NAME	SCHOOL	PHOTO	% of MARKS
C6 2	GAYATHRI NAIR	SOBHA ICON HSS, PALAKKAD		99
C6 3	HARIPRASAD S.V	A K M H S S KOTTOOR, MALAPPURAM		100
C6 4	MUHAMMED HASSAN. K	PKMMHSS EDARIKODE, MALAPPURAM		95
C6 5	PARVATHI S D	G H S S KOKKALLUR, KOZHIKKOD		95

C6 6	VYSHNAV P I	GHSS IRIKKUR, KANNUR		95
C6 7	PRAYAG M P	GHSS MATHIL, KANNUR		95
C6 8	MADHURIMA GOPAN	G H S S KOTTILA, KANNUR		96
C6 9	DEVAMITHRA NARESH	KV PAYYANUR, KANNUR		96
C6 10	ANJALI . K	GHSS MATHAMANGALAM, KANNUR		95
C6 11	ANAGHA M	IMNSGHSS MAYYIL, KANNUR		95
C6 12	ALOK DINESH	MATTANNUR HSS, KANNUR		95

C6 13	SANJAY P	CHSS CHATTANCHAL, KASARAGOD		95
C6 14	KARTHIK BHAVANAN	JNV KASARAGOD		96
C6 15	SHARANYA K S	CHSS CHATTANCHAL, KASARAGOD		95
C6 16	DARSHANA M	KV PAYYANUR,KANNUR		100
C6 17	AMRUTHA T V	GHSS BALLAEAST, KASARAGOD		95
C6 18	RENJEESH BEKAL R	JNV KASARAGOD		96
C6 19	NAVYA E	GHSS CHEEMENI, KASARAGOD		95






C6 20	FIDHA VADAKKE THODIKAYIL	JDT ISLAM HSS KOZHIKODE		96.4
C6 21	NAVAJYOTH J	HHSIBS HSS, KASARAGOD		96
C6 22	ELIZABETH GEORGE	KEHSS MANNANAM KOTTAYAM		96.2
C6 23	HARIKRISHNAN V M	JNV PERIYE		96

















Central University of Kerala
INSPIRE Internship Science Camp
December 22 -27, 2018






LIST OF SELECTED STUDENTS

Sl.No	NAME	SCHOOL	PHOTO	% of MARKS
C7 1	ASWIN K SURESH	SN HSS, THRISSUR		95
C7 2	SAKHIL P.S	SOBHA ICON HSS, PALAKKAD		99
C7 3	RANEEN REHMAN	P K M MHSS EDARIKODE, MALAPPURAM		100
C7 4	ANAMIKA M S	GMGGHSS, KOZHIKKOD		98
C7 5	DIYANA MUHAMMED	JDT ISLAM HSS, VELLIMADUKKUNU, KOZHIKKOD		99

C7 6	ANAAGH K	KADAMBUR HSS, KANNUR		96
C7 7	THEJUS A	JNV, KANNUR		98
C7 8	VISHNUPRIYA V V	KOODALI HSS, KANNUR		95
C7 9	GOPIKA P	KENDRIYA VIDYALAYA, KANNUR		100
C7 10	VYSHAKH M	MOOTHEATH H S S, KANNUR		100
C7 11	MUHAMMED AMEER	PPMHSS KOTTUKARA, MALAPPURAM		95
C7 12	ANURAJ .A	HHSIBSHSS EDNEER, KASARAGOD		100

C7 13	AMAL HARIDAS	CHATTANCHAL HSS, KASARGOD		95
C7 14	REVATHY BAIJU	GHSS BALLAEAST, KASARAGOD		95
C7 15	ARATHI P	G H S S PERIYE, KASARAGOD		98
C7 16	SREELAKSHMI	JNV, KASARAGOD		98
C7 18	FATHIMATH ZUHARA R.K	CHEMNAD JAMA ATH HSS		95
C7 19	ABHIJITH P	CHSS CHATTANCHAL, KASARAGOD		95
C7 20	AZHAR P A	PPMHSS KOTTUKARA, MALAPPURAM		95

C7 21	SHIBILU RAHMAN T H	HHSIBS HSS, KASARAGOD		98.3
C7 22	K V AKASH	JNV PERIYE		98
C7 23	KIRAN DEV K	JNV PERIYE		95

**LIST OF MENTORS WITH ADDRESS WHO PARTICIPATED AND MENTORED IN DST-
INSPIRE INTERNSHIP SCIENCE CAMP ORGANIZED BY CENTRAL UNIVERSITY OF KERALA,
KASARAGOD DURING 22-27 DECEMBER 2018**

Sl. No.	Name of the Mentor	Addresss	Title of the Talk
1	Prof. (Dr.) K. Muralidhar	University of Hyderabad Kambadurmurali2001@rediffmail.com	Communications in Living Organisms- A Perspective
2	Prof. (Dr.) Virender Lal Chopra	Former Chancellor, CUK virenderchopra1936@gmail.com	
3	Prof. (Dr.) N. Munuswamy	University of Madras munuswamym@yahoo.com	Cryobiology in Life Sciences
4	Dr. S. V. M. Sathyanarayana	Pondicherry University	Physics before $F = ma$
5	Dr. Mahesh Hariharan	IISER TVM mahesh@iisertvm.ac.in 9037705564	Ultrafast Processes in Chemistry and Biology
6	Prof. (Dr.) A. Vijayakumar	CUSAT Cochin vambat@gmail.com 9447608851	Excitements and Challenges in Mathematics

7	Dr. M. R. Sudarsanakumar	University of Kerala TVM sudarsanmr@gmail.com 9447711030	Chemistry - The Mother Science
8	Dr. K. K. Vijayan	CIBA Chennai director.ciba@icar.gov.in	Vistas in Aquaculture Biotechnology
9	Dr. R. Rajendra Kumar	KVASU Kerala rrkumarkau@yahoo.com 9446442759	Career avenues in Dairy and Food processing sector
10	Prof. (Dr.) Rajneesh Bhutani	Pondicherry University rbhutani@gmail.com 9443636432	The Earth System Sciences in Today's World
11	Prof. (Dr.) C. Vijayan	IIT Madras cvijayan@iitm.ac.in 9445749881	The Joy of Physics
12	Prof. (Dr.) Kuruvilla Joseph	IIST TVM kuruvilla@iist.ac.in 9447366479	Material Science: Yesterday, Today and Tomorrow
13	Prof. (Dr.) K. Kurien Issac	IIST TVM kurienissac@gmail.com	Pursuing Science and Technology



Innovation in Science
Pursuit for Inspired
Research



A National Programme being implemented by the
DEPARTMENT OF SCIENCE & TECHNOLOGY
Government of India
Scheme for Early Attraction of Talents for Science (SEATS)

INSPIRE

INTERNSHIP

2018 DECEMBER 22 - 27

PROGRAMME SCHEDULE

Organized by:



CENTRAL UNIVERSITY OF KERALA
KASARAGOD

Invitation

Dear Colleague,

We are so glad to inform you that, Central University of Kerala, Kasaragod is hosting the **Innovation in Science Pursuit for Inspired Research (INSPIRE) Internship** for Plus One students. This innovative programme is implemented by Department of Science and Technology, Government of India for attracting young talents towards Science. The main objective of INSPIRE is to communicate the young students of the country the excitements of creative pursuit of Science and attract talents to the study of Science at an early age, thus building the required critical human resource pool for strengthening and expanding the Science and Technology system and Research & Development base in our country.

The INSPIRE Internship residential programme is scheduled from **22-27 December 2018**. The venue for the programme is **Seminar hall, SABARMATHI BLOCK, Central University of Kerala, Periya, Kasaragod, Kerala**.

The opening ceremony will be on 22nd December 2018 at 2 PM with **Prof. (Dr.) M.R Prathapachandra Kurup**, Head, Department of Chemistry & Director of Research, Central University of Kerala welcoming the gathering. **Prof. (Dr.) G. Gopa Kumar**, Hon'ble Vice Chancellor of Central University of Kerala, Kasaragod will deliver the presidential address. **Prof. (Dr.) Virender Lal Chopra**, Hon'ble former Chancellor of Central University of Kerala and former DG, ICAR will inaugurate the programme. Special address will be given by **Prof. (Dr.) K. Jayaprasad**, Pro-Vice Chancellor, CUK and **Dr. M. Muralidharan Nambiar**, Controller of Examinations & Registrar in charge, CUK. **Prof. (Dr.) K. Muralidhar**, University of Hyderabad will deliver the keynote address. **Dr. B.R. Prasanna Kumar**, Finance Officer, CUK, **Prof. (Dr.) K.P. Suresh**, Dean, School of Education, CUK, **Dr. Rajendra Pilankatta**, Dean, School of Medicine and Public Health & EC member, CUK, **Prof. (Dr.) K.J.Thomas**, Dean, School of Physical Sciences, CUK, **Prof. (Dr.) T. Dennis Thomas**, Dean, School of Biological Sciences, CUK, **Prof. (Dr.) Muthukumar Muthuchamy**, Dean, School of Earth Sciences, CUK, will felicitate the programme.

For the closing ceremony, **Prof. (Dr.) K. Kurien Issac**, IIST, Trivandrum has kindly consented to deliver the valedictory address and the function will be presided over by **Prof. (Dr.) G. Gopa Kumar**, Hon'ble Vice Chancellor, Central University of Kerala. **Prof. (Dr.) R. Rajendra Kumar**, former Dean, KVASU and **Sri. K. M. Vijayakrishnan**, Principal, Jawahar Navodaya Vidyalaya, Periya will also address the participants during the valedictory function.

You are cordially invited to join the programme.

Thank You

Yours sincerely

Prof. (Dr.) G. Gopa Kumar

Chairman

INSPIRE Science Camp

Vice Chancellor

Central University of Kerala

Dr. Ramachandran K.

Joint Co-ordinator

INSPIRE Science Camp

Dr. Sudha K.

Programme Co-ordinator

INSPIRE Science Camp

2018 DECEMBER 22 SATURDAY

- 12:00 PM – 1:00 PM : Registration
- 2:00 PM – 4:30 PM : **Opening Ceremony**
- 2:00 PM : University Anthem
- 2:05 PM Introductory Remarks : **Dr. Sudha K.**
Programme Co-ordinator, INSPIRE Science Camp
- 2:10 PM Welcome Address : **Prof. (Dr.) M.R. Prathapachandra Kurup**
Head, Department of Chemistry & Director of Research, CUK
- 2:15PM Presidential Address : **Prof. (Dr.) G. Gopa Kumar**
Hon'ble Vice Chancellor, Central University of Kerala
- 2:45 PM Inaugural Address : **Prof. (Dr.) Virender Lal Chopra**
*Hon'ble former Chancellor Central University of Kerala
and former DG, ICAR*
- 3:15 PM Special Address : **Prof. (Dr.) K. Jayaprasad**
Pro-Vice Chancellor, Central University of Kerala
- 3: 25 PM Special Address : **Dr. M. Muralidharan Nambiar**
*Controller of Examinations & Registrar in charge,
Central University of Kerala*
- 3: 35PM Keynote Address : **Prof. (Dr.) K. Muralidhar**
University of Hyderabad
- 4.05 PM Felicitations : **Dr. B.R. Prasanna Kumar**
Finance Officer, Central University of Kerala
Prof. (Dr.) K.P. Suresh
Dean, School of Education, CUK
Dr. Rajendra Pilankatta
Dean, School of Medicine and Public Health & EC member, CUK
Prof. (Dr.) K.J.Thomas
Dean, School of Physical Sciences, CUK
Prof. T. Dennis Thomas
Dean, School of Biological Sciences, CUK
Prof. (Dr.) Muthukumar Muthuchamy
Dean, School of Earth Sciences, CUK
- 4:25 PM Vote of Thanks : **Dr. Ramachandran Kotharambath**
Joint Co-ordinator, INSPIRE Science Camp

Stage Co-ordinators: **Dr. Eftihikar Ahamed B.** and **Dr. S. Anbazhagi**, Assistant Professors, CUK

- 4:30 PM – 5:00 PM : *Tea/Coffee Break*
- 5:00 PM - 6:30 PM : **Mind Jogging**
Dr. M. N. Mohamedunni Alias Musthafa
Associate Professor, Dept. of Education, CUK
- 6:30 PM – 7:00 PM : **General Instruction and Briefing the programme**
Dr. Shaini P.
Assistant Professor, Dept. of Mathematics, CUK
- 7:00 PM - 8:00 PM : *Dinner*

2018 DECEMBER 23 SUNDAY

- 6:00 AM - 6:30 AM : **Yoga training**
 Co-ordinator: *Dr. Subramanya Pailoor*
Academic Co-ordinator, Dept. of Yoga
- 7:30 AM - 8:20 AM : *Breakfast*
- 8:20 AM - 8:40 AM : **Walk with Scholars**
 Co-ordinator: *Dr. Shaini P.*
Assistant Professor, Dept. of Mathematics
- 9:00 AM - 10:30 AM**
- Rapporteur : **Session 1.1**
Dr. S. Anbazhagi
Assistant Professor, Dept. of EVS
- Talk : **Prof. (Dr.) K. Muralidhar**
University of Hyderabad

Communications in Living Organisms- A Perspective

- 10:00 AM - 10:30 AM : Interaction with Mentor
- 10:30 AM - 11:00 AM : *Tea/Coffee Break*
- 11:00 AM - 12:30 PM**
- Rapporteur : **Session 1.2**
Dr. V. B. Sameer Kumar
Assistant Professor, Dept. of BCMB
- Interaction with : **Prof. (Dr.) Virender Lal Chopra**
Hon'ble former Chancellor
Central University of Kerala
- 12:30 PM - 02:00 PM : *Lunch Break*

2:00 PM – 3:30 PM

Rapporteur : **Dr. S. Anbazhagi**
Assistant Professor, Dept. of EVS

Talk : **Prof. (Dr.) N. Munuswamy**
University of Madras

Cryobiology in Life Sciences – An Overview

3:00 PM – 3:30 PM : Interaction with Mentor

3:30 PM – 4:00 PM : *Tea/Coffee Break*

4:00 PM – 5:30 PM

Session 1.4

Rapporteur : **Dr. E. Prasad**
Assistant Professor, Dept. of Physics

Talk : **Dr. S. V. M. Sathyanarayana**
Pondicherry University

Physics before $F = ma$

5:00 PM - 5:30 PM : Interaction with Mentor

5:30 PM - 7:30 PM

Session 1.5

Meet our CUK Faculty, School of Physical Sciences

Co-ordinator/s: Dean/Heads of the respective Department

7:30 PM - 8:30 PM

Session 1.6

Meet our Invited School Teachers

Co-ordinator: **Dr. Eethikar Ahamed B**
Assistant Professor, Dept. of English

8:30 PM - 9:00 PM : *Dinner*

2018 DECEMBER 24 MONDAY

6:00 AM – 6:30 AM : Yoga

7:30 AM – 8:20 AM : *Breakfast*

8:20 AM – 8:40 AM : **Walk with Scholars**
 Co-ordinator: **Dr. S. Anbazhagi**
Assistant Professor, Dept. of EVS

9:00 AM - 10:30 AM **Session 2.1**

Rapporteur : **Dr. M. Bhagiyalakshmi**
Assistant Professor, Dept. of Chemistry

Talk : **Dr. M. R. Sudarsanakumar**
University of Kerala, TVM

Chemistry - The Mother Science

10:00 AM – 10:30 AM : Interaction with Mentor

10:30 AM - 11:00 AM : *Tea/Coffee Break*

11:00 AM - 12:30 PM **Session 2.2**

Rapporteur : **Dr. Gnanavel Soundararajan**
Assistant Professor, Dept. of Mathematics

Talk : **Prof. (Dr.) A. Vijayakumar**
CUSAT, Cochin

Excitements and Challenges in Mathematics

12:00 PM -12: 30 PM : Interaction with Mentor

12: 30 PM - 2: 00 PM : *Lunch Break*

2:00 PM -3:30 PM **Session 2.3**

Rapporteur : **Dr. Sijin Kumar A.V.**
Assistant Professor, Dept. of Geology

Talk : **Dr. Rajneesh Bhutani**
Pondicherry University

The Earth System Sciences in Today's World

3:00 PM– 3:30 PM : Interaction with Mentor

3:30 PM– 4:00 PM : *Tea/Coffee*

4:00 PM - 5:30 PM **Session 2.4**

Meet our CUK Faculty, School of Biological Sciences
 Co-ordinators: Dean & Heads of the respective Department

5:30 PM - 7:00 PM

Session 2.5

**Meet our CUK Faculty, School of Earth Sciences and
School of Public Health & Community Medicine**
Co-ordinators: Dean & Heads of the respective Department

7:00 PM - 7:30 PM

Session 2.6

Thinking Process on New Innovative Ideas

Co-ordinators

Dr. V. B. Sameer Kumar
Assistant Professor, Dept. of BCMB

Dr. Sijin Kumar A. V.
Assistant Professor, Dept. of Geology

Dr. Gnanavel Soundararajan
Assistant Professor, Dept. of Mathematics

Dr. T. M. Thasleema
Assistant Professor, Dept. of Computer Sciences

Dr. H.P. Gurushankara
Assistant Professor, Dept. of Animal Science

Dr. Jasmine M. Shah
Assistant Professor, Dept. of Plant Science

7:30 PM – 9.00 PM

: **Cultural Programmes by CUK Students**

Co-ordinator

Dr. R. Aswati Nair
Associate Professor, Dept. of BCMB

9:00 PM – 9:30 PM

: *Dinner*

2018 DECEMBER 25 TUESDAY

6:00 AM – 6:30 AM

: Yoga

7:30 AM – 8:00 AM

: *Breakfast*

8:30 AM - 10:00 AM

Session 3.1

Rapporteur

: **Dr. M. Bhagiyalakshmi**
Assistant Professor, Dept. of Chemistry

Talk

: **Dr. Mahesh Hariharan**
IISER, Thiruvananthapuram

Ultrafast Processes in Chemistry and Biology

9:30 AM – 10:00 AM : Interaction with Mentor

10:00 AM – 10.30 AM : *Tea/Coffee Break*

10:00 AM – 5:00 PM

Laboratory Experiments

Session 3.2

General Convener :

Dr. Swapna S. Nair

Associate Professor, Dept. of Physics

Co-ordinators

Subject
Physical Sciences

: **Dr. Manikandan Rangaswamy**

Assistant Professor, Dept. of Mathematics

Dr. T. M. Thasleema

Assistant Professor, Dept. of Computer Science

Dr. A. Sakthivel

Associate Professor, Dept. of Chemistry

Dr. E. Prasad

Assistant Professor, Dept. of Physics

Biological Sciences

: **Dr. V. B. Sameer Kumar**

Assistant Professor, Dept. of BCMB

Dr. Jasmine M. Shah

Assistant Professor, Dept. of Plant Science

Dr. L. Divya

Assistant Professor, Dept. of Animal Science

Dr. Ranjith Kumavath

Assistant Professor, Dept. of Genomic Science

Earth Sciences

: **Dr. Sijin Kumar A. V.**

Assistant Professor, Dept. of Geology

Dr. Rishiram Ramanan

Assistant Professor, Dept. of EVS

5:30 PM – 7:00 PM

Session 3.3

Meet our Vice Chancellor
Prof. (Dr.) G. Gopa Kumar

7:00 PM – 8:00 PM

: **Christmas Celebration**

Co-ordinators

Dr. Gnanavel Soundararajan

Assistant Professor, Dept. of Mathematics

Dr. T. M. Thasleema

Assistant Professor, Dept. of Computer Science

Dr. T. A. Jose Priya

Post-Doc. Fellow, Dept. of Animal Science

8:00 PM – 9:00 PM

: *Dinner*

2018 DECEMBER 26 WEDNESDAY

- 6:00 AM - 6:30 AM : Yoga
- 7:30 AM - 8:00 AM : *Breakfast*
- 8:30 AM - 9:00 AM : Interaction with Aquaculturist
Sri. T. Purushothaman
Payyanur
- 9:00 AM - 10:30 AM** **Session 4.1**
- Rapporteur : **Dr. T. A. Jose Priya**
Post-Doc Fellow, Dept. of Animal Science
- Talk : **Dr. K. K. Vijayan**
CIBA, Chennai

Vistas in Aquaculture Biotechnology

- 10:00 AM - 10:30 AM : Interaction with Mentor
- 10:30 AM - 11:00 AM : *Tea/Coffee Break*
- 11:00 AM - 12:30 PM** **Session 4.2**
- Rapporteur : **Dr. M. Bhagiyalakshmi**
Assistant Professor, Dept. of Chemistry
- Talk : **Prof. (Dr.) Kuruvilla Joseph**
IIST, Thiruvananthapuram

Material Science: Yesterday, Today and Tomorrow

- 12:00 PM - 12:30 PM : Interaction with Mentor
- 12:30 PM - 02:00 PM : *Lunch Break*
- 2:00 PM - 3:30 PM** **Session 4.3**
- Rapporteur : **Dr. E. Prasad**
Assistant Professor, Dept. of Physics
- Talk : **Prof. (Dr.) C. Vijayan**
IIT, Madras

The Joy of Physics

- 3:00 PM - 3:30 PM : Interaction with Mentor
- 3:30 PM - 4:00 PM : *Tea/Coffee Break*
- 4:00 PM - 5:30 PM** **Session 4.4**
- Rapporteur : **Dr. Aneesh P. M.**
Assistant Professor, Dept. of Physics
- Talk : **Dr. A. P. Nandini**
IIT, Madras

Visualization and Exploration of Function

- 5:00 PM – 5:30 PM : Interaction with Mentor
- 5:30 PM - 6:30 PM : **Meet our Research Scholars**
Co-ordinators:
Prashanth Ballullaya U.
PhD. Research Scholar, Dept. of Animal Science
Manikanta B.
PhD. Research Scholar, Dept. of Physics
- 6:30 PM - 7:30 PM : **Meet our INSPIRE Alumni & Volunteers**
Co-ordinators:
M. Jijith
DRDO Hyderabad, INSPIRE Alumni
S.K.V. Arjun
Pondicherry University, INSPIRE Alumni
- 7:30 PM - 9:00 PM : **Cultural Programmes by the Participants**
Co-ordinators: INSPIRE Alumni and INSPIRE Volunteers
- 9:00 PM - 9:30 PM : *Dinner*

2018 DECEMBER 27 THURSDAY

- 6:00 AM - 6:30 AM : Yoga
- 7:30 AM - 8:20 AM : *Breakfast*
- 8.20 AM -8.40 AM : **Walk with Scholars**
Co-ordinators: INSPIRE Alumni

9:00 AM -10:30 AM

Session 5.1

- Rapporteur : **Dr. Jeyabalan Sangeetha**
Assistant Professor, Dept. of EVS
- Talk : **Prof. (Dr.) R. Rajendra Kumar**
KVASU, Pookode, Kerala

Career avenues in Dairy and Food Processing Sector

- 10:00 AM – 10.30 AM : Interaction with Mentor
- 10.30 – 11.00 AM : *Tea/Coffee Break*

11:00 AM - 12.30 PM

Session 5.2

- Rapporteur : **Dr. E. Prasad**
Assistant Professor, Dept. of Physics

Talk : **Prof. (Dr.) K. Kurien Issac**
IIST, TVM

Pursuing Science and Technology

12:00 - 1:00 PM : **Panel Discussion on the Career prospects in Science**
Co-ordinators

Dr. Rajendra Pilankatta

Dean, School of Medicine and Public Health and EC member, CUK

Dr. Padmesh P. Pillai

Associate Professor, Dept. of Genomic Science & Deputy Registrar, CUK

1:00 PM - 2:00 PM : **Lunch**

2.00 PM - 4:30 PM **Closing Ceremony**

2:00 PM : University Anthem

2:05 PM Welcome Address : **Dr. Rajendra Pilankatta**
Dean, School of Medicine and Public Health & EC Member, CUK

2:10 PM Report Presentation : **Dr. Ramachandran Kotharambath**
Joint Co-ordinator, INSPIRE Science Camp

2:20 PM Presidential Address : **Prof. (Dr.) G. Gopa Kumar**
Hon'ble Vice Chancellor, Central University of Kerala

2:50 PM Address by Chief Guest: **Prof. (Dr.) K. Kurien Issac**
IIST, TVM

3:20 PM Special Address : **Prof. (Dr.) R. Rajendra Kumar**
KVASU, Pookode, Kerala

3:30 PM Special Address : **Sri . K. M. Vijayakrishnan**
Principal, Jawahar Navodaya Vidyalaya, Periya

3:40 PM : **Feedback from Participants**

4:10 PM : **Presentation of Memento to the Winners**

4:15 PM Vote of Thanks : **Dr. Sudha K.**
Programme Co-ordinator, INSPIRE Science Camp

4:25 PM : **Certificate Distribution**

4:30 PM : **National Anthem**

Tea/Coffee

Stage co-ordinator : Dr. T. A. Jose Priya, *Post-Doc Fellow, Dept. of Animal Science, CUK*



CENTRAL UNIVERSITY OF KERALA

KASARAGOD

The Central University of Kerala, Kasaragod is one of the 15 Central Universities established under the Central Universities Act 2009 (Parliament Act No. 25 of 2009). The University is founded on the noble vision of a “caring wisdom” and is guided by the lofty ideals of academic and social commitment, moral steadfastness and, intellectual and spiritual enlightenment, as reflected in its vision statement. Located in a region characterized by linguistic and ethnic diversity adorned by cultural richness, the University seeks to harness the local resources-human, intellectual, social, artistic and cultural, while bringing in the best that profoundly needs an educational uplift. The University opened its academic portals in October 2009 with 17 students enrolling in two PG programmes and operated from a rented building at Nayanmarmoola (Vidyanagar). From this modest beginning, CUK has grown into a prestigious institution with 11 schools comprising 23 departments offering 22 postgraduate and research programmes and 1 undergraduate programme with total enrolment of 1710 students in the academic year 2018-19.

Dr. G. Gopa Kumar, the present Vice Chancellor is a veteran academician, eminent social scientist and astute political analyst who assumed office on 7 August 2014. His vision is to transform the CU Kerala as the epicentre of development in Malabar region in particular and Kerala in general and to keep the national character and outlook in its academic and extracurricular activities.



**DST-INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA**



22-27 DECEMBER 2018

**DST-INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FROM THE
MENTOR**

1. Name and Address of the Mentor: *Dr. C. Vijayan*
(With e-mail address & Mob. No.) *Department of Physics
Indian Institute of Technology
Madras, Chennai*

2. Date of Participation in the Camp: *26-12-18*

3. Comments about the Infrastructural capacity of the organizing Institute:

*Very good. All required arrangements
were in place.*

4. Comments on the boarding and lodging facilities made available:

Very good.

5. Mentors views on the INSPIRE Internship Camp:

*The organizers are taking all care to ensure
that the INSPIRE camp is conducted very successfully
in the true spirit of the Government's initiative
to inspire young students. The sincere and
enthusiastic method of organization is the
highlight of this team.*

*Prin
[C. VISAYAN]
26.12.18*

6. Comments about the interaction with the participating students:


Good.

7. Suggestions to further improve the INSPIRE Internship camps:

Keep it up; this is already at a very high level of successful organization.

8. Overall impact of the INSPIRE Internship Camp:

Excellent


Signature of the Mentor
Prof. C. VIJAYAN
IIT MADRAS.



**DST- INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA**



22-27 DECEMBER 2018

**DST-INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FROM THE
MENTOR**

1. Name and Address of the Mentor:
(With e-mail address & Mob. No.)

Prof. Kuruvilla Sajan

2. Date of Participation in the Camp: 26-12-2018

3. Comments about the Infrastructural capacity of the organizing Institute:

Very good

4. Comments on the boarding and lodging facilities made available:

Excellent

5. Mentors views on the INSPIRE Internship Camp:

Excellent programme
highly motivated students and
dedicated volunteers and I
wish to appreciate Prof. Sudha
for her dynamic leadership
and commitment on conducting

6. Comments about the interaction with the participating students:

Wonderful experience

7. Suggestions to further improve the INSPIRE Internship camps:

Better to have continuing
~~for~~ programme for selected
motivated students, level 1,
level 2, level 2

8. Overall impact of the INSPIRE Internship Camp:

Excellent



Signature of the Mentor



**DST- INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA**



22-27 DECEMBER 2018

**DST-INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FROM THE
MENTOR**

1. Name and Address of the Mentor:
(With e-mail address & Mob. No.)

Dr. K.K. VISAYAN

2. Date of Participation in the Camp: 06/12/18

3. Comments about the Infrastructural capacity of the organizing Institute:

This coming up in an excellent way. I think there is an imperative need TO PLANT TREES INSIDE THE CAMPUSES.

4. Comments on the boarding and lodging facilities made available:

Excellent

5. Mentors views on the INSPIRE Internship Camp:

It's indeed a very good initiative and the young minds are getting a very good opportunity to the world of Science.

I feel there is a need to include B.Sc. students also maybe

6. Comments about the interaction with the participating students:

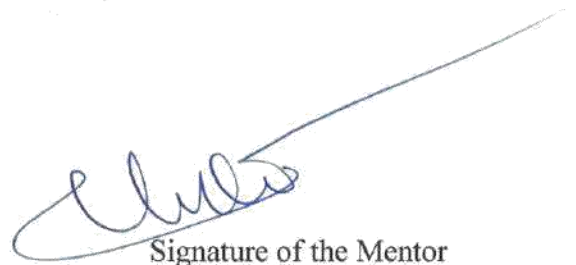
Very good

7. Suggestions to further improve the INSPIRE Internship camps:

Yes, there is a need to keep this multi-sector science approach —

8. Overall impact of the INSPIRE Internship Camp:

Very good


Signature of the Mentor



**DST- INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA**



22-27 DECEMBER 2018

**DST-INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FROM THE
MENTOR**

1. Name and Address of the Mentor:
(With e-mail address & Mob. No.)
*Prof. KAMBADUR MURALIDHAR
Univ of Hyderabad
9810 927705*
2. Date of Participation in the Camp:
21st - 23rd December
3. Comments about the Infrastructural capacity of the organizing Institute:
Very good.
4. Comments on the boarding and lodging facilities made available:
Very good.
5. Mentors views on the INSPIRE Internship Camp:
*Excellent organization. Reach is very good.
Meticulously planned. Very courteous
Understanding and competent.*

6. Comments about the interaction with the participating students:

The students are inquisitive and raised many relevant questions.

7. Suggestions to further improve the INSPIRE Internship camps:

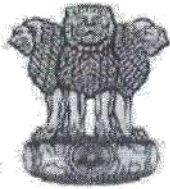
- Ask the participants to write a brief account of any great scientist.
- If budget permits, present inspiring books. (eg: Advice to Young Scientists by E.O. Wilson, or Peter Medawar or Ramon Cajal)

8. Overall impact of the INSPIRE Internship Camp:

I am impressed. Definitely it will mean away bright students to science.



Signature of the Mentor



DST- INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA



22-27 DECEMBER 2018

DST-INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FROM THE
MENTOR

1. Name and Address of the Mentor:
(With e-mail address & Mob. No.)

Mahesh Hariharan
Associate Professor, School of Chemistry
Maruthamala P.O., Vithura
Thiruvananthapuram 695557

2. Date of Participation in the Camp:

25/12/2018

3. Comments about the Infrastructural capacity of the organizing Institute:

Excellent seminar hall, audio and powerpoint facility was amazing and clear. class room had good ventilation and was comfortable throughout the talk. Students had comfortable seating arrangement for good interaction.

4. Comments on the boarding and lodging facilities made available:

Lodging facility was comfortable enough with enough basic requirements.

5. Mentors views on the INSPIRE Internship Camp: This coordinator (Dr. Sridha) has been consistently and passionately holding this camp for many years. Her compassion comes with perfection. Lots of students get benefitted from her interaction as well as other speakers who visit. I strongly recommend this place to be chosen as favorite spot for DST Inspire Camp every year.

6. Comments about the interaction with the participating students:

Students are always enthusiastic from this location. They boundlessly ask questions that invoke new thoughts. Excellent participation from students.

7. Suggestions to further improve the INSPIRE Internship camps:

INSPIRE Camps are excellent initiatives. More such programs have to be implemented in the country to encourage students to choose science.

8. Overall impact of the INSPIRE Internship Camp:

Being an IISER faculty, I have seen this program benefitting young students to know variety of opportunities available for them. Some of them have written to me personally that the Inspire Camp helped them to join places like IISER. I am sure that INSPIRE participants will lead Indian and International science in the coming years.



Signature of the Mentor



**DST- INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA**



22-27 DECEMBER 2018

**DST-INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FROM THE
MENTOR**

1. Name and Address of the Mentor:
(With e-mail address & Mob. No.)
*Dg. M. R. Sudar Sankar Kumar
Former Principal, M G College
Thiruvananthapuram - 695 045*

2. Date of Participation in the Camp: *24-12-2018*

3. Comments about the Infrastructural capacity of the organizing Institute:
Excellent

4. Comments on the boarding and lodging facilities made available:
Excellent

5. Mentors views on the INSPIRE Internship Camp:
*I was impressed by the
interaction from students. The organisers have
selected a range of topics of interest to students.*

6. Comments about the interaction with the participating students:

Excellent

7. Suggestions to further improve the INSPIRE Internship camps:

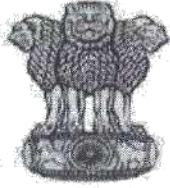
Some hands on experience by
participating students can be included

8. Overall impact of the INSPIRE Internship Camp:

Excellent.

Shades

Signature of the Mentor



**DST- INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA**



22-27 DECEMBER 2018

**DST-INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FROM THE
MENTOR**

1. Name and Address of the Mentor:
(With e-mail address & Mob. No.)
Prof. N. Munuswamy
UGC-BSR. Faculty Fellow
Dept of Zoology
Univ. of Madras.
Grandy Campus
munuswamy.nm@yahoo.com
(C) 9884171947
2. Date of Participation in the Camp:
23rd Dec, 2018
3. Comments about the Infrastructural capacity of the organizing Institute:
Excellent.
Well organized with all required infrastructure facility.
4. Comments on the boarding and lodging facilities made available:
Excellent
well disciplined, organized, good boarding & lodging facility.
5. Mentors views on the INSPIRE Internship Camp:
Excellent -

6. Comments about the interaction with the participating students:

Far excellent.
The students are highly attentive,
well informed about the lecture programme.
Therefore, interaction was good & effective.

7. Suggestions to further improve the INSPIRE Internship camps:

Nothing to say / mention.

8. Overall impact of the INSPIRE Internship Camp:

Both the Co-ordinators at the institution
of the University need to be congratulated
for their well conceived, planned and executed
the inaugural programme.

N. Murthy

Signature of the Mentor

24/12/2018



DST- INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA



22-27 DECEMBER 2018

DST-INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FROM THE
MENTOR

1. Name and Address of the Mentor: *Dr. R. Rajendra Kumar,*
(With e-mail address & Mob. No.) *Former Dean Faculty of Dairy Science and Technology, Kerala Veterinary and Animal Sciences University*
9446442759
2. Date of Participation in the Camp: *27-12-2018*
3. Comments about the Infrastructural capacity of the organizing Institute:
Very Good infrastructural facilities for conducting the orientation programme for the budding students.
4. Comments on the boarding and lodging facilities made available:
Excellent facilities.
5. Mentors views on the INSPIRE Internship Camp:
The calibre of the students is very high. The interaction was very good.

6. Comments about the interaction with the participating students:

Students have interacted very well. They have come up with excellent questions and most of their doubts could be cleared.

7. Suggestions to further improve the INSPIRE Internship camps:

If possible provide students with a summary of the lectures for their future reference.

8. Overall impact of the INSPIRE Internship Camp:

Excellent



Signature of the Mentor



**DST- INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA**



22-27 DECEMBER 2018

**DST-INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FROM THE
MENTOR**

1. Name and Address of the Mentor:
(With e-mail address & Mob. No.)

RAJNEESH BHUTANI
rbhulan@gmail.com
9443636422

2. Date of Participation in the Camp:

24/12/18

3. Comments about the Infrastructural capacity of the organizing Institute:

Excellent

4. Comments on the boarding and lodging facilities made available:

Excellent

5. Mentors views on the INSPIRE Internship Camp:

This is a well-planned & well-organized
Camp. I hope it leads to more interest
to pursue basic sciences among the young
students.

6. Comments about the interaction with the participating students:

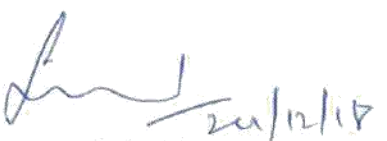
I found them quite inquisitive and they responded well.

7. Suggestions to further improve the INSPIRE Internship camps:

One possibility, that can be explored, is to give some group tasks related to some scientific ~~exp~~ enquiry to help activity-based learning.

8. Overall impact of the INSPIRE Internship Camp:

This scheme is becoming increasingly important, particularly, when ~~students are~~ given the general discouragement for the basic Sciences. I hope this enthuse students to pursue curiosity driven pure sciences.


Signature of the Mentor



DST- INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA



22-27 DECEMBER 2018

DST-INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FROM THE
MENTOR

1. Name and Address of the Mentor:
(With e-mail address & Mob. No.)
S.V.M. Satyanarayana
Department of Physics
Pondicherry University
Pondicherry - 605014
svmsatya@gmail.com
944346247
2. Date of Participation in the Camp:
23-12-18
3. Comments about the Infrastructural capacity of the organizing Institute:
Very good.
4. Comments on the boarding and lodging facilities made available:
Very good.
5. Mentors views on the INSPIRE Internship Camp:
Very useful to attract young talent
and inspire them to take up to science as
a career.

6. Comments about the interaction with the participating students:


I am impressed with enthusiastic participants and their interaction.

7. Suggestions to further improve the INSPIRE Internship camps:

More focus on a narrow area might be useful.

8. Overall impact of the INSPIRE Internship Camp:

It is a time tested method of attracting young students to science. I think it is going well.


Signature of the Mentor 23-12-78



**DST- INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA**



22-27 DECEMBER 2018

**DST-INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FROM THE
MENTOR**

1. Name and Address of the Mentor:
(With e-mail address & Mob. No.)

2. Date of Participation in the Camp:

3. Comments about the Infrastructural capacity of the organizing Institute:

*A marvalously organized and thought-through
programme. The devotion of Sreatha is exemplary.
The devotion to a cause is exemplary.*

4. Comments on the boarding and lodging facilities made available: *My best wishes and hope that this programme will continue with a mark*

Excellent

V.L. G. J.

5. Mentors views on the INSPIRE Internship Camp:

As above.

6. Comments about the interaction with the participating students:

Very satisfying. The questions raised
were pertinent and interaction very good

7. Suggestions to further improve the INSPIRE Internship camps:

The programme organized by UK and
lead by Sujatha should serve as
a model

8. Overall impact of the INSPIRE Internship Camp:

Outstanding

V. L. G. S.

Signature of the Mentor



**DST- INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA**



22-27 DECEMBER 2018

INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FORM FOR STUDENT

1. Name and Address of the student: *Sandra Balakrishnan*
(With their school name, e-mail address & Mob. No)
P.O Kullin (M.M Bazar) Payyanur *balan mp71@gmail.com*
Kannur 670306 *sandra balan@gmail.com*
Kendriya Vidyalaya Payyanur.
2. Comments about the Infrastructural capacity of the organizing Institute:
Gigantic, good infrastructural, and clean campus.
3. Comments on the boarding and lodging facilities made available:
Super, neat, clean,
Very well managed.
4. Comments about the payment of Travelling cost to the participating students:
Satisfied,
5. Comments on the interactive talks delivered by the Mentors:
very much motivational.
It provided me new ideas regarding the
field of science & technology. and helped
me to have a goal in my life.
6. Comments on the practical/hands on experience:
It was a very good experience
and I was able to get introduce to new
instruments. But due to insufficient time
I can't fully attend the physics sections

7. Student views on the INSPIRE Internship Camp:

It is very amazing camp with lots of inspiration and motivation. I feel very much proud to be apart of INSPIRE CAMP. This camp build a high level of self confidence within me.

8. Comments on the scientific discussion with the Mentors:

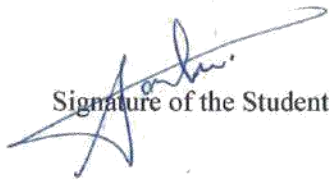
It was a very wonderful sessions while interacting with great scientist, It was very informative, ...

9. Suggestions to further improvement of the INSPIRE Internship camps:

I don't think there is anything to improve even then, including some interactive sessions with all the friends ~~results~~ from different schools should be ~~the~~ good

10. Overall impact of the INSPIRE Internship Camp:

INSPIRE Internship Camp have a very big positive feeling in my life. ~~My~~ This camp helped ~~me~~ to achieve self confidence and motivation. ~~and~~ achieve


Signature of the Student



DST- INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA



22-27 DECEMBER 2018

INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FORM FOR STUDENT

1. Name and Address of the student:

(With their school name, e-mail address & Mob. No)

Amal Nalki. v.p. Panarkala vilai house Tettiyoode Aynkamam
Parasala P.O. Tum., school => G.V.H.S.S parasala Ph.no: 8921586928

2. Comments about the Infrastructural capacity of the organizing Institute:

* Infrastructural capacity of the organizing institute is very good. Especially AC and fan, We feel very comfortable, but in some small situation the microphone didnot work well and people who give in the back cant hear properly the lecture properly.

3. Comments on the boarding and lodging facilities made available:

There is no problem in the boarding facilities. Lodging also good, but there is no pillow (in the instruction they did not inform to bring pillow, only told to bring pillow cover). All other facilities are OK.

4. Comments about the payment of Travelling cost to the participating students:

Yes, we got the payment of travelling, it is more helpful. The fee so the financially backward people also able to attend the Inspire camp.

5. Comments on the interactive talks delivered by the Mentors:

Interactive talks delivered by the Mentors clear the inspire me to become a scientist. I think this was the turning point of my career.

6. Comments on the practical/hands on experience:

The practical section is interesting, but time is not enough to see all the section. So, plz extend the practical section in the next inspire session. (Maths and chemistry is more interesting. I can't get time to see physics section)

7. Student views on the INSPIRE Internship Camp:

I'm sure that inspire camp will give more scientist to India. All Volunteers and teachers ~~are~~ give so much of love.

8. Comments on the scientific discussion with the Mentors:

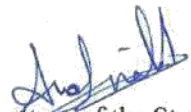
Scientific discussion really help me to create scientific temper. All the Mentor are really good

9. Suggestions to further improvement of the INSPIRE Internship camps:

* Improve Punctuality (Night section we got phone only at 10:30 pm. but the actual time is at 9:00 pm)

10. Overall impact of the INSPIRE Internship Camp:

INSPIRE Camp really inspire us. I'm sure that this camp will give more scientist to India


Signature of the Student



DST- INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA



22-27 DECEMBER 2018

INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FORM FOR STUDENT

1. Name and Address of the student:

(With their school name, e-mail address & Mob. No)

✓
THERES MARIA PRINCE, AREEPARAMBIL (H), KANNIVAYAL P.O

ST. THOMAS H.S.S THOMAPURAM, KASARGOD, e-mail: Theresmprince

2. Comments about the Infrastructural capacity of the organizing Institute:

8289964049
@gmail.com
C.U.K had made all possible facilities for us.
I am completely satisfied

3. Comments on the boarding and lodging facilities made available:

It also was good. kabani-block was really clean and remained clean at all time. They also provided as much, what they can do

4. Comments about the payment of Travelling cost to the participating students:

I had come on bus.

5. Comments on the interactive talks delivered by the Mentors:

The interactive section was really helpfull. It help us to realise ourself and, made us able to open before a Society / group.

6. Comments on the practical/hands on experience:

It was a special experience. I really enjoyed the lab sections. our volunteers much worked to be punctual punctual at all labs.

7. Student views on the INSPIRE Internship Camp: It was excellent.

8. Comments on the scientific discussion with the Mentors:

discussion with mentors help us to think in different ways. They were really moulding us.

9. Suggestions to further improvement of the INSPIRE Internship camps:

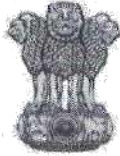
The camp was exactly brilliant. + Cons. The only thing I want to say is about the tight schedule. But it also made us, how to maintain time.

10. Overall impact of the INSPIRE Internship Camp:

I am really feeling proud, for getting admitted in this great innovative programme. I will really do something for my society and for my country.

Theres Maria Prince Amisil

Signature of the Student



DST- INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA



22-27 DECEMBER 2018

INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FORM FOR STUDENT

1. Name and Address of the student:

(With their school name, e-mail address & Mob. No)

Vesha Wilson
Kendriya Vidyalaya Kettan Nagar
Vat Wilsonva 2011@gmail.com

Mob. No → 9447424186

2. Comments about the Infrastructural capacity of the organizing Institute:

Massive institute. Good facilities & infrastructure.
Well maintained.

3. Comments on the boarding and lodging facilities made available:

Comfortable & good bed. Neat & clean surroundings.
But no availability of pillows.

4. Comments about the payment of Travelling cost to the participating students:

- Indeed good. A good facility. Supports the students from far away districts to reach here.

5. Comments on the interactive talks delivered by the Mentors:

- Motivative & inspiring talks had made our minds fill with pleasure, happiness, excitement, innovation & thoughts. Really informative. I came to know many things which I never thought I would come across. The talks & interaction helped us clear our doubts.

6. Comments on the practical/hands on experience:

- All the practical sessions were of great importance to you me. I could improve my practical ability & get much exposure in the practical science. The visit to the Plant Science dept. was the best. The PNA extraction of was the best.

7. Student views on the INSPIRE Internship Camp:

A very good camp that helps students realize their talents in the field of research.

8. Comments on the scientific discussion with the Mentors:

Helps gather a lot of informations in the field of Science & technology.

9. Suggestions to further improvement of the INSPIRE Internship camps:

- could be better if pillows are provided for the students.

10. Overall impact of the INSPIRE Internship Camp:

- Informative
- helps us mould ourselves in the field of science.
- Provides a lot of informations.
- Laboratory experience helps us shape our practical talents.
- The active participation of volunteers are indeed awe-inspiring.


Signature of the Student



DST- INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA



22-27 DECEMBER 2018

INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FORM FOR STUDENT

1. Name and Address of the student:

(With their school name, e-mail address & Mob. No)

Abdullah Rishad
C.J.H.S.S Chemnad, Kasavagode
phone: 9295727263
email: rishadabdullahemo@gmail.com

2. Comments about the Infrastructural capacity of the organizing Institute:

This campus have a huge Campus area with international facilities
The place where the campus locates is a beautiful locality. we have no
problems at all. all facilities are available here for this beautiful camp.

3. Comments on the boarding and lodging facilities made available:

We had a good times on our hostel which is a good one. there were
Facilities what we need to gave good sleep. Hostel have its own
mess nearby. It is also located near to main quater foriam.

4. Comments about the payment of Travelling cost to the participating students:

The to and from charges from the house is re-imbursed by
the camp authorities.

5. Comments on the interactive talks delivered by the Mentors:

All interactive sessions are very interesting. They lead us to a great
world of universe which is science. we have got many new
information. which is going to attract us towards basic science

6. Comments on the practical/hands on experience:

we have spendted a whole day on practising lab experiments.
we have visited almost every lab here. due to delay in
timing we have missed some experiments in physics, but we have

enjoyed the chemistry lab and plant science lab every thing.

so the interacted was a great experience

7. Student views on the INSPIRE Internship Camp: Every student says that this is their golden experience, which cannot be experienced before or after. My personnel feeling this is the camp really inspiring science students to become the future of our nation.

8. Comments on the scientific discussion with the Mentors:

The discussion was most interesting section. Many of us have asked a variety of questions. Most of them we were satisfied. But some questions mentors have been puzzled. Although really good experience.

9. Suggestions to further improvement of the INSPIRE Internship camps:

Everything on this week camp were perfect which have fulfilled all the dreams of students. One and only problem is no facility

for prayers. We will expect solution to this on next camp.

10. Overall impact of the INSPIRE Internship Camp:

The greatest camp experienced in my life. But also for many others. We tasted and enjoyed the Real Science with greatest mentors in India. Really our lives are changed. We have now entered on the way of science, the greatest thing in universe. We have also learned a new life-style which is time conservative and helpful to our health. Really when we leave this campus we are going as new born baby bathed in science.

Signature of the Student





**DST- INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA**



22-27 DECEMBER 2018

INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FORM FOR STUDENT

1. Name and Address of the student: **DEVIKA SUDRYAN,**
(With their school name, e-mail address & Mob. No) **"VRINDHAVANAM", AZHIKODE SOUTH P.O**

KANNUR (PIN CODE: 670009)
School name; **D.I. SABHA GIRLS H.S.S, KANNUR CITY**
e-mail; **sudevanvv@gmail.com**
Mob no; **9645394346** **(670003)**

2. Comments about the Infrastructural capacity of the organizing Institute:

*It is actually superb, very well organised.
So grateful to the volunteers, Sudha ma'am & all
other authorities.*

3. Comments on the boarding and lodging facilities made available:

*I'm fully satisfied but I think, sufficient water is
not available at the hostel, otherwise I think facilities
are very perfect. Well arranged rooms & clean & tidy
bathrooms.*

4. Comments about the payment of Travelling cost to the participating students:

5. Comments on the interactive talks delivered by the Mentors:

*All of them were well co-operating & taught us
a detailed version of our syllabus. These talks were
very helpful & useful. Each word delivered was unforget-
table.*

6. Comments on the practical/hands on experience:

*Very useful & I'm very excited in seeing several
equipments. Very lucky in seeing every experiments &
other instruments carried out by research scholars.
We had the opportunity in watching these laboratories
& had given us several acknowledge.*

7. Student views on the INSPIRE Internship Camp:

Completely satisfied.
We have received lots of knowledge from this.
I think to me, I'm totally inspired.

8. Comments on the scientific discussion with the Mentors:

Mentors always cleared out doubts, & they were well cooperating & without any hesitation.

9. Suggestions to further improvement of the INSPIRE Internship camps:

I think, these arrangements & other things are very perfect.

So I don't have any further suggestions more than this.

10. Overall impact of the INSPIRE Internship Camp:

Through this camp, I had received many friends & received additional knowledge.

Before I was attending the camp, all my concepts about my ambition was totally different. But now, at the end of this occasion, I'm totally changed. Now I have a new concept regarding my future. Over all, this camp is really "INSPIRING".

Signature of the Student





**DST- INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA**



22-27 DECEMBER 2018

INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FORM FOR STUDENT

1. Name and Address of the student:

(With their school name, e-mail address & Mob. No)

Fida As, Elathari (HO), Naduvannur (VIA), Kozhikode (D12)
G.H.S.S Kokallur
Fidaaselathari@gmail.com

2. Comments about the Infrastructural capacity of the organizing Institute:

CUK institute ~~is~~ is really wonderful in all ways - It give all facilities for our camp. They do for they maximum - it really beyond my expectation.

3. Comments on the boarding and lodging facilities made available:

- We get enough care and from here.
- The room facilities enough for us
- We get good bedrooms and bathrooms etc.
- All facilities are really good.

4. Comments about the payment of Travelling cost to the participating students:

5. Comments on the interactive talks delivered by the Mentors:

Here all classes are very interesting topic and mentors are so excellent persons. Their classes open new opening to scientific world.

6. Comments on the practical/hands on experience:

I visited all laboratories. They show many experim. It is highly interesting. making the students more active. All are so excited in some experimts.

7. Student views on the INSPIRE Internship Camp:

It is really an excellent camp - it make the student to a scientific approach towards all things. It help to study more thing along with science like moral values

8. Comments on the scientific discussion with the Mentors:

The discussion mentors corrected all our doubts. They answer all question perfectly and simply we can understand level.

9. Suggestions to further improvement of the INSPIRE Internship camps:

- Include some motivational class
- Reduce the tight schedule.

10. Overall impact of the INSPIRE Internship Camp:

In my own experience in different ^{camp} I can see it really different from other camps. The camp is really beyond my expectations. The facilities for the camp very good setup. We get enough food at the ^{fair} interval. So it also nice. Before attending Inspire camp I have no interest in science - I am not reading any ~~scat~~ science article. But after attending the camp ^{Signature of the Student} by getting inspiration from the class. I am interested in science. And I think I go through science and I sent my goal strongly. So I haven't get any words to explain the camp. The camp is really fantastic. I think it change all participant in small level also.



**DST- INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA**



22-27 DECEMBER 2018

INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FORM FOR STUDENT

1. Name and Address of the student:

(With their school name, e-mail address & Mob. No)

SREELAKSHMI. M, Makkatty (H), Karivedakam (P.O), Chengala via,
Kasargod, G H S Kundambuzhy, email: sreelakshmisurendran.m@gmail.com

2. Comments about the Infrastructural capacity of the organizing Institute:

9946920388

The CUK was having all the capacities for hosting this programme. The seminar hall Sabarmathi, lab facilities for various departments is really attractive.

3. Comments on the boarding and lodging facilities made available:

The lodging facilities arranged at Kabani hostel could satisfy all our basic needs and we felt much comfortable.

4. Comments about the payment of Travelling cost to the participating students:

Yes, that is good. But is it beneficial for those who came in their own vehicles?

5. Comments on the interactive talks delivered by the Mentors:

Really inspiring and fruitful. New ideas sprout among us about various subjects through their words.

6. Comments on the practical/hands on experience:

The day was very exciting. Visualisation of many of the experiments that we knew, made it much clear. The determination shown by the students of CUK in explaining the experiments without being exhausted is really appreciable.

7. Student views on the INSPIRE Internship Camp: The camp is extremely good. The arrangements made for the students in each and every section was very nice.

8. Comments on the scientific discussion with the Mentors:

We could know the scientific principles behind many of the things involved in our life. Interaction with them was a good experience.

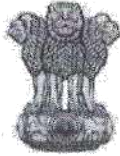
9. Suggestions to further improvement of the INSPIRE Internship camps:

If the time schedule is ^{made} arranged a little bit loose, then the students may get more time to relax and thus to interact among them.

10. Overall impact of the INSPIRE Internship Camp: I am sure that it has brought about many changes in my life both as a student and as an individual that will help me in my future.



Signature of the Student



**DST- INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA**



22-27 DECEMBER 2018

INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FORM FOR STUDENT

1. Name and Address of the student:

(With their school name, e-mail address & Mob. No)

*Rijina, Athikkasampallam (H) periya
G.H.S.S periya, Rijinaamma 285@gmail, 9605648751*

2. Comments about the Infrastructural capacity of the organizing Institute:

central university of kerala was well developed and facilitated institute. The infrastructural facilities are very comfortable and I satisfied all with that.

3. Comments on the boarding and lodging facilities made available:

in this camp we doesn't concerned about our boarding and lodging facilities. number of volunteers helped us to shift our laggage to our rooms. And help to find our specific rooms.

4. Comments about the payment of Travelling cost to the participating students:

The coordinates of the inspire camp gives the payment of travelling cost. some of students from Trivandrum is present in the camp. They too got the payment.

5. Comments on the interactive talks delivered by the Mentors:

The mentors are usually famous scientists. They take ~~over~~ their class very well and a little bit we feel bore but all the sessions were very informative.

6. Comments on the practical/hands on experience:

First time I visit many research labs. The scholars clear the doubts and experimental process. The experiments are given me a new wonderful experience. The ~~memorable~~

7. Student views on the INSPIRE Internship Camp:

INSPIRE inspired us. The camp gives many knowledge and new friendships. The mentors are very talented and they give many secrets of their success in life. Their experiences are very motivating.

8. Comments on the scientific discussion with the Mentors:

Now I realize that science is very vast and it has many opportunities. The science field was full of questions. And it is our duty to find the answers of that question. Through this camp I can taste a little bit of science, the vast land.

9. Suggestions to further improvement of the INSPIRE Internship camps:

INSPIRE internship camp was very informative, and all the entire team of this camp was working for 4 months before. So in their great effort I can't see anything to improve.

10. Overall impact of the INSPIRE Internship Camp:

It was one of the valuable and great experiences in my life. The person before this camp and the person after this camp will entirely change. That was the great impact of that camp, and that reveals the significance of INSPIRE internship camp.


27/12/18

Signature of the Student



**DST- INSPIRE SCIENCE CAMP
CENTRAL UNIVERSITY OF KERALA**



22-27 DECEMBER 2018

INSPIRE INTERNSHIP SCIENCE CAMP: FEEDBACK FORM FOR STUDENT

1. Name and Address of the student:

(With their school name, e-mail address & Mob. No)

Mambaram - H.SS

nandana2002@gmail.com

Nandana . M . K .

'Nandachandanam' Odathil peedikka

(P.O) Mamba, Kammur

Ph: 9562480739

2. Comments about the Infrastructural capacity of the organizing Institute:

- There are good facilities in the institute
- Well facilitated buildings.

3. Comments on the boarding and lodging facilities made available:

- The rooms are comfortable.
- The bathrooms and toilets are clean.
- Food is also very good.

4. Comments about the payment of Travelling cost to the participating students:

Satisfied

5. Comments on the interactive talks delivered by the Mentors:

- Interactive talks with Mentors is very useful and understandable.
- Mentors are greatly answering all of our questions
- They had delivered good talks.

6. Comments on the practical/hands on experience:

- Laboratory^{oratory} experiment was very nice.
- By doing ourself, is a new experience.
- Practical done by ourself is more understandable.

7. Student views on the INSPIRE Internship Camp:

- The camp was very inspiring and interesting
- It was very useful to children to know more about science and technology.

8. Comments on the scientific discussion with the Mentors:

- The discussion was very interesting.
- We had cleared our doubts.
- They had answered our questions very well.

9. Suggestions to further improvement of the INSPIRE Internship camps:

- All the arrangement is very nice, there is no further problem.
- One thing is that time for each session is less, please increase the time.

10. Overall impact of the INSPIRE Internship Camp:

- It was a new experience.
- We got new knowledge about science.
- We got so many friends.



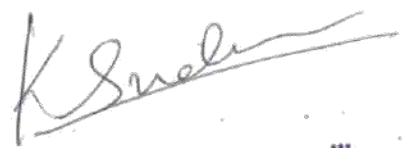
Signature of the Student

DST-INSPIRE INTERNSHIP SCIENCE CAMP: SUMMARY OF FEEDBACK BY THE PROGRAMME CO-ORDINATOR

1. Name and Address of the Host Institute : Central University of Kerala,
Periye, Kasaragod, Kerala
2. Date/Duration of the INSPIRE Internship Camp : 23-27December2018 (5days)
3. Number of participating INSPIRE Interns : 156

Sl. No.	Summary of INSPIRE Interns comments on:	Poor (1)	Satisfactory (2)	Good (3)	Very Good (4)	Excellent (5)
1	The Infrastructural capacity of the organizing Institute			12	52	92
2	Boarding and lodging facilities			14	69	73
3	Payment of Travelling cost				89	67
4	Interactive talks & Discussion with the Mentors				22	134
5	Hands on experience			23	82	51
6	<p>Suggestions to further improve the INSPIRE Internship camps:</p> <p align="center">Camp visit by DST officials would have great impact and also much inspiration not only to the Institution and also to the INSPIRE Interns.</p>					

Note: Sum total of the Feedback (1+2+3+4+5) should be equal to the number of participating INSPIRE Interns. This summary shall be completed based on the individual INSPIRE Interns feedback submitted for the respective INSPIRE Internship Science Camp.


डॉ. सुधा काप्पल्ली / Dr. Sudha Kappalli
 Associate Professor / Associate Professor
 Co-ordinator
 जंतु विभाग विभाग / Department of Animal Science
 कर्णटम केन्द्रीय विश्वविद्यालय / Central University of Kerala
 तेजस्विनी हिल्स, पेरिया टाक / Tejaswini Hills, Periye
 कासरगोड / Kasaragod-671316

8/10

good thought!

B CLEAN ENERGY

Nowadays we are using petroleum products as energy sources. petrol, diesel, etc are being used as fuels for vehicles. ~~the~~ The number of vehicles are increasing day by day and we are aware of the truth that the frequent use is going to end in ~~the~~ a situation exhausted with fuels.

It is a problem of ~~price~~ which we are thinking about and researchers are going on this. As we all know the fuels which are used today are highly pollutant.

We are all thinking about alternative methods, using hydrogen as a fuel is an idea of great value. But we are facing many challenges in this such as transport and storage. It is ~~be~~ also done through solar radiation, we are all looking forward for an ~~soo~~ world where pollution is less and all facilities are available.

In my view, plastics are the major threat to our nature and it will not degrade. If we are able to convert this plastic into energy, the main problems faced by our world will be solved to an extent. Through this way we can reduce the plastic and energy can

be produced in which makes our earth a better place to live in. It can also save us from global warming, polluting of our rivers. Nowadays we have many places which can reduce the harmful characters of plastics. Even though these things are removed, ~~we cannot~~ it is non-degradable.

In this modern world, it is a hard job to ~~remo~~ reduce or wash out the use of plastics fully. Even though government and many other authorities are implementing many rules, it is very difficult. So I strongly believe that this can be used to overcome a serious problem in the future.

24/12/18

8 INNOVATIVE IDEA
CONCEPT
Genetic engineering

{ Aswin-k Suresh
SNH SS, Binjalakuda
Thrisur.

Genetic engineering have a great future in the modern world. It can be used in medical field for many diseases.

* During accidents or some any other means humans may lost their legs, finger, hands etc.

In medical field the only cure for this is to fitting an artificial legs, that may support in walking, but it may not be 100% success.

I don't know wheather my idea is an applicable one. In lizards if their tail has broken the new one will grow automatically. My idea is to take that gene from the lizard that helping lizards to grow that broken tail and plaving it on humans through genetic editing the parts of the humans organs that have lost in humans, through genetic editing. That will help in growing the organ.

Even though the genetic editing is so

difficult, it is not impossible. For a
clarification for this idea I have to
research on it. It is not sure that
this idea is practical. But if it is
possible it ~~will~~ can make a great
changes in the life of ~~man~~ human.

Thinking process on new innovative ideas.

Mathematical modelling.

Devanand.D.
J.N.V.Kannur.

India is one of the world countries, with an amazing diversities. It has many type of people, language, culture and profession. According to my point of view, India is not a country with a flat structure, which means it has mountains, valleys which make them unflat. And our state, Kerala is also having the same above said structure.

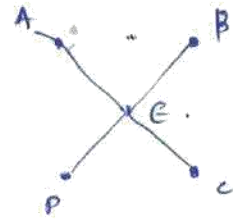
The current world is passing through an era of technology. It has developed a technology which makes everything in the world on our fingertips. Smartphones, computers and cellular network are also having a vital role in the current generation. And establishment of cellphone towers is one of the major seen we are witnessing in now-a-days. It is one of the our activity which causes deforestation, destroying of crop fields, and water bodies which may cause a major threat to our environment in the upcoming days. Towers are establishing in all the corners of village and towns, which is one of the way they are built. A single tower can be used to provide network to some places. Because it is also a costly expenditure.

I have heard of a problem in (tree problem) maths which can be used to locate a point which is equidistant from several points. This they can

we need to locate a location from which 4 equidistances from some other point.

Consider 4 points A, B, C, D.

we can find that E is a point which is equidistant from all the other 4 points. we can establish a tower to this position, the tower must be somewhat more efficient to provide network, and this tower can be used to provide network to A, B, C and D.



what is the situation in Kerala is that, within the area surrounded by A, B, C and D there is 3 or 4 towers, which is really unnecessary.

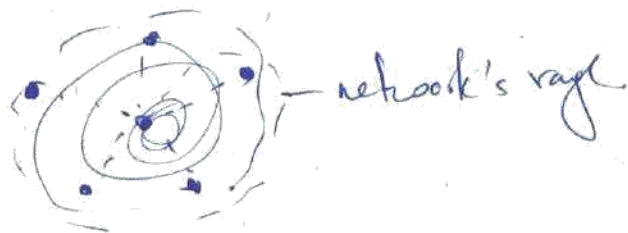
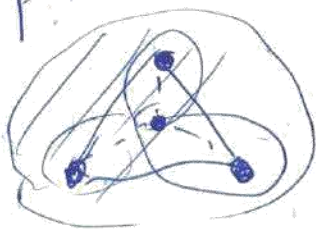
Using this idea we can establish an efficient connection b/w all the places in a state.

→ Advantages

→ Using this we can reduce the no. of towers which will reduce expense.

→ Not that much place is required.

Using this we can find shortest distance from 3, 5 etc points.





केरल केंद्रीय विश्वविद्यालय
CENTRAL UNIVERSITY OF KERALA

(संसद के अधिनियम, वर्ष 2009 द्वारा स्थापित / Established under the Act of Parliament in 2009)

No.CUK/ACA/DST/470/2017 / 1733/E 5641

दिनांक/Date: 06/02/2019

CERTIFICATE

This is to certify that "DST-INSPIRE Internship Science camp conducted at Central University of Kerala during 22-27 December, 2018 was purely residential in nature.

This is issued based on the request of Dr.Sudha K, Programme Co-ordinator, DST-INSPIRE Science Camp.

monaraj
11/2/19
Registrar (कुलसचिव) /
कुलसचिव / Registrar
केरल केंद्रीय विश्वविद्यालय
Central University of Kerala
कासरगोड / Kasaragod

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Report.

DST-Inspire Camp-22-27 December 2018 Central University of Kerala

Students' residential camp for skill development.

The motto of the Inspire Program is to motivate the talented young minds to take up scientific research as a personal undertaking and a career, after being exposed to the processes and people of science from eminent institutions during programs like this. The science camp being concluded here has been a great success, thanks to all the wholehearted efforts of each and everyone involved, under the guidance of the Chairman of the program, our honourable VC, Prof. Gopakumar and the efficient organising efforts of the Program coordinators, especially Dr. K Sudha, who is the backbone of this program, the Committee faculty members, to name a few Prof. Prathapachandrakurup, Dr. Rajendran Pilankatta, Dr Thyagu, Dr Sijin, Dr Swapna, Dr. Gnanavel, Dr Elezebeth, Dr Shaini, Dr Prasad, Dr Thasleema, Dr Rajesh, Dr Sakthivel, Dr Aswathi, Dr Jonah Thomas, Dr Sameer, Dr. Poyiloor, Inspire volunteers, medical officer, administrative staff, especially the engineering section, media etc. All the students have actively participated in the activities. And all the listed speakers have attended their sessions.

The camp was attended by 175 students from 80 schools from different parts of Kerala, majority representing Malabar area. The camp was inaugurated on the 22nd of December 2018, by Padmabhooshan Prof.(Dr.) Virendra Lal Chopra, Former chancellor of this University, with a formal welcome by Dr.K.Sudha, the co-ordinator of the INSPIRE camp. She also introduced the camp motto to the young minds. Prof.(Dr.).G.Gopakumar, Vice Chancellor, Central University of Kerala delivered the presidential address and shared his views on the scientific world. Prof. Gopakumar opined that science has to have an ethical and human side. The keynote address was given by Prof.(Dr.) K.Muralidhar, University of Hyderabad; while addressing the students, he emphasized that science is nothing but understanding the structure and function of nature through observations and experiments. The CoE and science Deans also spoke at the function. Dr.Ramachandran Kotharambath, joint co-ordinator INSPIRE science camp concluded the programme with the vote of thanks. The official opening ceremony was followed by a mind jogging session by Dr.M.N.Mohammedunni Alias Musthafa, Associate professor, Dept. of Education, CUK; session was motivational and inspiring to the young minds. Briefing of the whole programme and general instructions was done by Dr. Shaini P., Assistant Professor, Dept of mathematics, CUK.

In this camp, eminent scientists from well-reputed institutes all over India were invited to share their knowledge and interact with the participating students. The success stories and scientific videos were also displayed for the students. Cultural programs and discussions with different scholars were included as the evening

activities. Inspire camp provided sessions on Yoga, scientist/professor interactions, Walk with scholars, recreation, Christmas celebration along with regular scientific sessions. Each scientific sessions was of one-hour duration followed by a half hour interactive session with the mentor. Each day began with half an hour yoga session and twenty minutes of Walk with the Scholars.

On the second day, Prof. (Dr.) K. Muralidhar, from Hyderabad Central University talked on the topic 'Perspective View of Communications in Living Organisms'; He shared his viewpoints about living organisms in the perspective of a physicist, chemist, and a biologist. The lecture concluded by detailing on the behavioral and hormonal changes in organisms. Following this, an interactive session with Padma Bhushan Prof. (Dr.) Virendra Lal Chopra, Former Chancellor, Central University of Kerala, was held; Prof. Chopra gave a glimpse of advances in the field of genetic engineering and agricultural sciences. The students raised questions related to the modern hybrid seed varieties and about the availability of arable land for agriculture. The post-lunch session started with a talk on "Cryobiology in Life Sciences" by Prof. (Dr.) N. Munuswamy from Madras University; He explained the different types of preservation methods and chemicals involved in preservation and concluded his talk by detailing on the applications of Cryopreservation, Cryomicroscopy etc. The last session on "Physics before $f=ma$ " was mentored by Dr.S.V.M. Sathyanarayana of Pondicherry University. The evening sessions were devoted to meet the CUK faculty and discussions with invited school teachers.

The third day of INSPIRE camp began with a lecture on "Chemistry the Mother science" by Dr.M.R.Sudarshanakumar. He emphasized the importance of knowing the history of any science; without which it is incomplete, quoting the leaves of a tree is incomplete without its trunk.After the tea break, Dr. A.Vijayakumar, professor, CUSAT gave a talk titled "Excitements and challenges in mathematics". He explained the culture of asking fundamental questions in science and urged students to develop critical thinking skills to advance science. He instilled a motivation to the students with the story of the Great Indian mathematician, Srinivasa Ramanujan "The man who knew infinity".In the afternoon session, Dr.Rajneesh Bhutani dealt with "The Earth System Sciences In Today's World. This was followed by the interactive session with CUK faculty from different schools. Followed by this an essay writing exercise on the topic "Thinking Process on New Innovative Ideas" The topics given were 1. Biodiversity and Conservation, 2. Mathematical Modelling, 3. Clean Energy and 4. Genetic Engineering. The cultural programmes by CUK students made the evening sessions lively and colorful.

On the fourth day, in the first morning session, Dr. Mahesh Hariharan from IISER, Trivandrum, introduced the ultramodern technology of femtosecond and attosecond spectroscopy in his session on "Ultrafast process in Chemistry and Biology". He tried to uplift the confidence level of students by emphasising on the potential and innate capabilities of human mind and how these powerful brain faculties can be used in the pursuit of science. The rest of the day was devoted to laboratory experiments,

conducted in various departments in the university. The students got a real-life experience of various models and experiments. The evening sessions of the fourth day were enriched with festive joy and academic flair. The students interacted with our Hon. Vice-chancellor Prof. Dr. G. Gopakumar and his wife Mrs. Jayasree Gopakumar, who was a teacher and mural artist. Both of them patiently answered the interesting and curious queries of the students. This session was followed by Christmas celebration. The VC and Fr. Maani Meloth of St Stephen Church Kasaragod gave the Xmas message.

On the 5th day the program started with the experience sharing of the aquaculture person Sri. T. Purushothaman from Payyannur; He talked about prawns culture and the problems faced in the field. In his talk on "Vistas in Aquaculture Biotechnology", Dr. K. K. Vijayan explained various disciplines in the field of aquaculture in detail. Dr. Vijayan elaborated his topic by focusing on the health benefits of seafood, food production through agriculture and animal husbandry, the economic perspective of brackish water aquaculture and shrimp exporting, and different aspects of technology applied in aquaculture.

Followed by this, Prof. (Dr.) Kuruvilla Joseph gave a talk on the topic "Material Science-Yesterday, Today and Tomorrow"; he talked about the importance of being earnest and curious if one is to build a career in science. Prof. Kuruvilla briefed the opportunities in space science in the Indian context. He also discussed the various processes involved in nanotechnology.

The afternoon sessions were handled by Prof. (Dr.) C. Vijayan, from IIT Madras on the topics "Joy of Physics" and "Visualization and Exploration of Mathematical Function". In the first session "Joy of Physics," Prof. Vijayan described the methods of studying the forces of nature and the requirement of further advanced studies to control the forces to our advantage. Prof. Vijayan mentioned that students often do not grasp the basic ideas clearly and, hence, develop misconceptions. The lack of proper exposure leads to a wrong impression that, mathematics/science is a tough subject to master. His talk attempted to nudge the students towards the joy of physics, by exploring beyond the school textbooks. In the next session, Prof. Vijayan talked about simple mathematical functions. Students were asked to draw graphs on the basic concepts in physics and mathematics. Also, Prof. Vijayan gave an idea on how functions can be visualised before plotting in the graph and making the mathematical calculations easily digestible for the students. Followed by this an interactive session was conducted at the open stage with the science phd students of this university. We called it a day with cultural programs by the participating students.

Today's programs started with a talk and interactive session on "Career Avenues in Dairy and Food Processing Sector" by Prof. R. Rajendra Kumar, from KVASU, Wayanad. Dr. Kumar talked about the processes involved in food processing and dairy research. He also mentioned the scope and opportunities in the field. In the penultimate session of this camp, Prof. Kurien Issac of IIST, Trivandrum gave a talk on the topic "Pursuing Science and Technology". Prof. Issac talked about the

opportunities and careers in science and technology. He gave stories of the pioneers in the same field. Prof. Isaac added that the scientist always stood for the development of society. He explained in detail about the information and communication technology, satellite technology and nanoscience. Prof.Kurien also discussed the security and ethical issues in these fields. This session was followed by a panel discussion on the career prospects in science.

Thank you.