



**LORD JEGANNATH COLLEGE OF ENGINEERING**  
**RAMANATHICHANPUTHOOR**  
**SCIENTIFIC AWARENESS CAMP**  
**FOR**  
**YOUNG SCIENTISTS**

**Nurture Nature**

**9-11-2013 (Saturday)**

**6.30A.M :Assembling at Marthandam Bus stand**  
**6.45A.M :Bus pickup**  
**8.45A.M :Arrival at SCIENCE CENTRE THIRUNELVELI**  
**9.00A.M : BASIC SCIENCE STUDY SESSION**  
**Welcome Address by :Mullanchery M.VELAIAN**  
 Organiser, Kumari Arival Peravai  
**Special address by : Shri.SEETHARAM**  
 Dist.Science Officer,Dist. Science Centre  
**Key Note Address by : Er.S.INGERSOL**  
 Group Head, ISRO Mahendragiri  
**Inspirational Address by: KUMARI..MASHA**  
 Young scientific innovator  
**10.00AM Visit Science Centre**  
**3.50 P.M Lord Jegannath College of Engineering,**  
**4.00 P.M Tea**  
**4.15P.M INAUGURAL SESSION**

**Welcome Address by :Dr.T.Sasikumar**  
 Principal, Lord Jegannath College of Engineering,  
**Introductory Address by:Mullanchery M.VELAIAN**  
 Organiser, Kumari Arival Peravai  
**Presided by : Dr.P.SUYAMBU**  
 Chairman, PSN Group of Institutions  
**Inaugural Address by:**  
**Shri.KARTHIKESAN D**

**Outstanding Scientist**  
**Associate Director LPSC/ISRO Mahendragiri**  
**5.00 P.M Research topic presentation**

**RESEARCH TOPIC-SOIL&MINERALS**

Need for Soil management  
 Soil quality  
 Geology of soil  
 Mechanisms of soil formation , movement and its control  
 Soil moisture regulation  
 Soil fertility maintenance (chemical balance)  
 Enhancement of soil biological activity  
 Soil quality management  
 Soil types of Kanyakumari district  
 Past and present scenario of Soil fertility in K.K dist.  
 Impacts of soil fertility in k.Ki dist. due to rubber tree plantation  
 Depletion of Soil nutrition due to banana plantation  
 Effects of river soil encroachment in k.K dist.  
 Best soil management Practices to improve soil quality in K.K. Dist.  
 Mining  
 Exploitation of mineral  
 mineral management in India- an overview  
 Distribution and availability of minerals in Kanyakumari  
**Team Coordinator :Shri.M.John Rabikumar ,**  
 LPSC Mahendragiri  
**Team Supporter : J.Livee, Young Scientist 2012-13**  
**Scientist :Er.K.Ramaseshan ,**  
 General, Manager, ISRO Mahendragiri  
**Resource Person :Shri.Mangavilai D.Rajendran,**  
 All India Radio, Nagercoil  
**Doctor : Dr.Y.Arul prakash ,**  
 Asst.Professor, Govt Medical College Nagercoil  
**Consultant : Er.N.Sivasubramanian ,**  
 Senior Scientist, Chief General Manager Rtd,ISRO  
 :Shri.S.Thiruvengadam,  
 Employment officer Rtd  
**Guide :Ms.Manju**  
 Excel Global School, Thiruvattar  
**6.00 P.M Research topic presentation**  
**6.30 P.M Group Discussion, Report**

**RESEARCH TOPIC-FOREST**

Preservation of Forests  
 Forest management  
 Ecosystem services provided by forests  
 Satellite technology for forest management  
 Environmental impacts of forest  
 Indian forests - an overview  
 Government rules and act for forest management  
 Forest in Kanyakumari- Statistics  
 Wild life in Kanyakumari forests and its management  
 Past and present statistics of wildlife in kanyakumari  
 Trees in Kanyakumari forests and its management  
 Medicinal Plants in Kanyakumari forests  
 Management of Medicinal plants in Kanyakumari forest  
 Deforestation, stone crushing in Kanyakumari Dist.  
**Team Coordinator :Dr.S.Edwin Gladson ,**  
 Environmentalist  
**Team Supporter :S.Fathima Shahana ,**  
 Young Scientist 2012-13  
**Scientist :Er.P.Palvannan ,**  
 Dy.General Manager, ISRO Mahendragiri  
**Resource Person :Mrs.R.R.Rekha ,Teacher**  
**Doctor :Dr.P.Thiraviam ,**  
 Medical Officer, IISER, Thiruvananthapuram  
**Consultant :Dr.T.James Wilson ,**  
 Chairman, Sigma College of Architecture,  
 :Shri.S.Johnson, Head Master  
**Guide :Ms.S.Sandhyamol ,**  
 Excel Central School,Thiruvattar

**7.00 P.M Research topic presentation**  
**7.30 P.M Group Discussion, Report**  
**8.00 P.M Dinner**  
**9.00 P.M Cultural programme**  
**10.00P.M Prayer**

**RESEARCH TOPIC-SEA & COASTAL RESOURCES**

Sea and Human life  
 Necessity of sea food for human life  
 Sea weed  
 Fishing in Kanyakumari  
 Salt and its uses  
 Salters in Kanyakumari  
 Coastal management  
 Technologies and procedures to manage coastal regions  
 Managing the environmental effects of coastal regions  
 Preserving the coastal flora and fauna  
 Indian Coastal management - an overview  
 Indian government coastal regulation acts  
 Scenario of Tamil Nadu Coastal management and acts related to it  
 A study on flora and fauna of coastal area of kanyakumari  
 Estuaries  
 Coastal Ecosystems in Kanyakumari  
 Coastal Regulation Zone Violations in Kanyakumari  
 Precautionary measure to safeguard coastal area of Kanyakumari (Tsunami)  
 Effects of sea water on coastal lands from Neerodi to Vattakottai  
**Team Coordinator :Shri.L.Edwin Sam, Social Scientist**  
**Team Supporter :Shri.Shibin, Research scholar**  
**Scientist :Er.S.Ingersol,**  
 Group Head, ISRO Mahendragiri  
**Resource Person : Mrs.T.Jayaselvakumari ,**  
 Universal College of Education, Valliyoor  
**Doctor :Dr.A.Jayalal,**  
 Associate. Professor, Govt Medical College  
 IMA State General Secretary  
**Consultant :Dr.T.Sasikumar,**  
 Principal, Lord Jaganath College Of Engineering  
**Guide :Mrs.Saroja , St.Mary's Hr.Sec.School ,Kaliyal**

**10-11-2013 5.00 A.M Wake up**

**6.00 A.M Yoga**  
**7.00 A.M Field study**  
**7.30 A.M Report**  
**8.00 A.M Break first**  
**8.30 A.M Research topic presentation**  
**9.30 P.M Group Discussion, Report**  
**10.00 P.M Aeronautical lab visit**  
**12.00 P.M Mechanical, Electrical & Electronic lab study**  
**RESEARCH TOPIC-WATER**  
 Water Resources Development & Management  
 Water Supply and sanitation  
 Technologies for water supply and sanitation  
 Meeting drinking Water demands & Treatment technologies  
 Rain water harvesting for water security  
 Watershed management  
 Surface and Ground water management  
 Water re-use and waste water management  
 Potable water  
 Stalinization of ground water  
 Policy review & Water Management in India  
 Water Management in Kanyakumari Dist.

**Team Coordinator :Prof.C.Sajeve,**  
 HOD Sun college of engineering & technology  
**Team Supporter :A.Annlin steffy, Young Scientist 2012-13**  
**Scientist :Er.L.Muthu,**  
 Dy. Director ISRO Vailiyamala Rtd  
**Resource Person :Er.S.Murugan, ISRO Mahendragiri**  
**Doctor :Dr.K.Vijayakumar,**  
 National President, Indian Medical Association  
**Consultant :Capt.P.Bennet Singh, Pilot Port Trust**  
 :Shri.D.Samraj,  
 Asst. Elementary Educational Officer, Kuzhithurai  
**Guide :Ms.M.Serlin Sunitha ,**  
 St.Annes Hr.Sec.School,Colachel

**RESEARCH TOPIC-AIR**

Composition of air  
 Air balance  
 Air standards  
 Air and life  
 Ventilation and standards of ventilation  
 Thermal comfort and dis comfort  
 Comfort zone  
 Air pollution  
 Noise pollution  
 Atmospheric composition  
 Industrialization and air pollution in K.K.Dist.  
 Air and weather  
 Ozone depletion  
**Team Coordinator:Shri P.Balakrishnan,Head Master Rtd**  
**Team Supporter :J.S Ananthkrishna,**  
 Young Scientist 2012-13  
**Scientist :Er.A.Benzigar Rajan ,**  
 Scientist ISRO Mahendragiri  
**Resource Person : Shri.R.Sathiskumar , Head Master**  
**Doctor : Dr.Sugin Herbert,**  
 Medical officer Govt. Health Centre  
**Consultant :Shri.P.Gopalan, Head Master Rtd**  
**Guide : Ms.V.Sujamerlin,**  
 Nanjil Catholic College of Arts & Science

**1.00 P.M Lunch**  
**1.30 P.M Happiness**  
**2.00 P.M Research topic presentation**  
**3.00 P.M Group Discussion, Report, Feedback**  
**3.15 P.M Tea**  
**3.30 P.M Valedictory Function:**  
**Presided by : Dr.T.SASIKUMAR**  
**Felicitation :Shri.Franklin George Jobin**  
 Vice Principal, Lord Jegannath College of Engg,  
**Valedictory address : Mullanchery M.VELAIAN**  
 Organiser, Kumari Arival Peravai