

भारत सरकार
अन्तरिक्ष विभाग
वायुमंडलीय अनुसंधान प्रयोगशाला
पो.बॉ.नं. 123, एनवीयू कैम्पस डाक घर
तिरुपति - 517 502
प्रयोगशाला : पो : गडंकी-517 112
पाकाला मंडल, चित्तूर जिला, आंध्र प्रदेश
दूरभाष : + 91 8585 272024, 222140
फैक्स : + 91 877 2248146 / + 91 8585 272018/21



GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
NATIONAL ATMOSPHERIC RESEARCH LABORATORY
P.B. No.123, P.O SVU Campus
Tirupati-517 502

Laboratory: P.O. Gadanki - 517 112
Pakala Mandal, Chittoor Dist., Andhra Pradesh
Phone: + 91 8585 272024, 222140
Fax: + 91 877 2248146 / + 91 8585 272018/21

Dr. Dattatreya Gujjar
Sr. Prof., Department of ECE
Alva's Institute of Engineering and Technology
Mijar, Moodabidri -574225

June 29, 2017

Sub: Letter of Joint collaboration under project of GNSS network by NARL

Sir,

This is to initiate collaboration and joint research work for application of GNSS and ionospheric/atmospheric studies using navigation satellites under an on-going activity of ground based GNSS receiver network at NARL.

A GNSS receiver make "Septentrio PolaRxS PRO" with a "Septentrio GNSS MF-Antenna" and cables was installed at your institute on 17 April 2017 for the aforementioned objective. The plan is to study the delay over the satellite signals due to Earth's Atmosphere and Ionosphere and its effect in precise applications areas. The continuous data from the GNSS receiver installed at your lab would be utilized on collaboration basis.

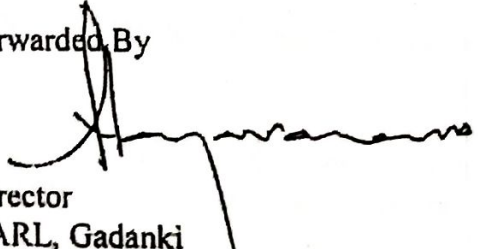
We wish that your institute also takes active part in using the data processing and research using the data recorded from this receiver at your site. Please note that the research publications using data from this receiver would be shared with you. Also, shall you wish to lead in specific scientific objectives under this plan and we assure you the best of our support.

This letter is intended to initiate the joint work and extend the operation of our GNSS receiver at your institute for 3 years. Please do the needful to support the installation of the receiver at your institute and send a response letter with similar intent. Thank you very much for your support to scientific research and development.

Sincerely yours


(Dr. Nirvikar Dashora)
Scientist/Engineer-SE
NARL, Gadanki

Forwarded By


Director
NARL, Gadanki

प्रो. ए. जयरामन / Prof. A. Jayaraman
निदेशक, एन.ए.आर.एल. / Director, NARL
अन्तरिक्ष विभाग / Dept. of Space
भारत सरकार / Govt. of India
गडंकी / GADANKI-517 112

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राष्ट्रीय वायुमंडलीय अनुसंधान प्रयोगशाला

पोस्ट बॉक्स नं. 123, एसवीयू कैंपस डाक घर

तिरुपति-517 502

साइट : पोस्ट व ग्राम, गादंकी-517 112

चित्तूर जिला, आंध्र प्रदेश

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Chittoor Dist., Andhra Pradesh
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CERTIFICATE

This is to certify that the following students

A SHREYA	4AL15EC001
CHARAN RAJ S	4AL15EC017
DEVIKA H S	4AL15EC019
HARSHITHA N P	4AL15EC030

of B.TECH -Electronics and Communication Engineering studying at ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY have successfully completed their internship from 23rd January 2019 to 22nd February 2019 at NARL, Gadanki. During their internship they have worked on "Implementation of GNSS-SDR and its application for PPP at AIET campus" under the guidance of Mr. Himanshu S. Sethi, Sci. /Engr. SC and Dr. Nirvikar Dashora, Sci. /Engr. SF with full support of Dr. Dattathreya Gujar, Dean (Planning) & Sr. Professor, AIET.

(Himanshu S. Sethi)

Sci. /Engr. -SC

NARL, Gadanki

(Dr. Nirvikar Dashora)

Sci. /Engr. -SF

NARL, Gadanki

डॉ. निर्विकार दशोरा / Dr. Nirvikar Dashora
वैज्ञानिक/इंजीनियर 'एसई'/Scientist/Engineer 'SE'
राष्ट्रीय वायुमंडलीय अनुसंधान प्रयोगशाला
National Atmospheric Research Laboratory
अन्तरिक्ष विभाग/ DEPARTMENT OF SPACE
भारत सरकार/ GOVERNMENT OF INDIA
गादंकी/ GADANKI-517 112, AP, INDIA

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Recommendation Letter

This is to recommend the projects taken by the B.Tech. Students of Alva Institute of Engineering and Technology, Moodbidri, Mangalore for the funding from Karnataka State Council for Science and Technology (KSCST) with due consideration that these students are working on four different projects allotted and guided by NARL. The projects are related with a novel work on signals processing of navigation satellites using a multi-frequency multi-satellite navigation receiver installed at AIET by NARL under collaboration.

The students, so far, have grasped the fundamentals of satellite navigation the signal properties and are ready to take the problems identified meeting the graduate level. The research problems tackled by students would enable them to serve for various applications that emerge from use of navigation Indian Constellation (NAVIC) signals in variety of needs in modern society ranging from transport to surveying to agriculture, defense and banking to state a few. NAVIC is an indigenous GPS like system developed by ISRO for Indian region that caters the need of Indian land mass for the said applications.

Hence, I recommend the case of AIET students for funding from KSCST, Bangalore.

Place: NARL, Gadanki

Date : 21-12-2017


(Dr. NIRVIKAR DASHORA)

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वैज्ञानिक/इंजीनियर 'एसई'/Scientist/Engineer 'SE'
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भारत सरकार/ GOVERNMENT OF INDIA
गादंकी/ GADANKI-517 112, आंध्रप्रदेश/A.P.



ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

A Unit of Alva's Education Foundation (R)

(Affiliated to Visvesvaraya Technological University, Belagavi

Approved by AICTE, New Delhi & Recognised by Government of Karnataka)

Shobhavana Campus, Mijar, Moodbidri - 574 225, Mangalore, D.K. Karnataka State

Phone : 08258-262724 (O), 262725 (P), Telefax 08258-262726

Email : principalalet08@gmail.com, Web : www.alet.org.in

Ref : AIET /Aca /2017-18/ 1921

Date:05/01/2018

From,

The Principal
Alva's Institute of Engineering & Technology,
Shobhavana Campus,
Mijar, Moodbidri,
Dakshina Kannada District-574225.

To,

The Director
NARL
Gadanki.

Respected Sir,

Sub: Permission for Internship Programme

The students listed below are the bonafide students of this institution studying in 4th Year (7th Semester) B.E (Electronics & Communication Engineering) and they would like to undergo an Internship training programme at your esteemed organization during their semester vacation.

We request you to kindly provide them an opportunity to acquire additional knowledge by way of granting permission to undergo training.

We would be obliged, if you could kindly issue certificates from your end to the students after the successful completion of their training programme.

Thanking you,

Yours faithfully

Students Name:

Mr.Ashok Singh Raj Purohit (USN : 4AL14EC014)

Mr.Harshith Somanna P B (USN : 4AL14EC038)

Mr.Govindrao M Mahendrakar (USN : 4AL14EC034)

Mr.Shashikumar Magadum (USN : 4AL15EC425)


PRINCIPAL
Alva's Institute of Engineering & Technology
Mijar, MOODBIDRI - 574 225

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Phone: 08255-262724 (O), 262725 (P), Telefax: 08255-262726

Email: principal@aei08@gmail.com, Web: www.aief.org.in

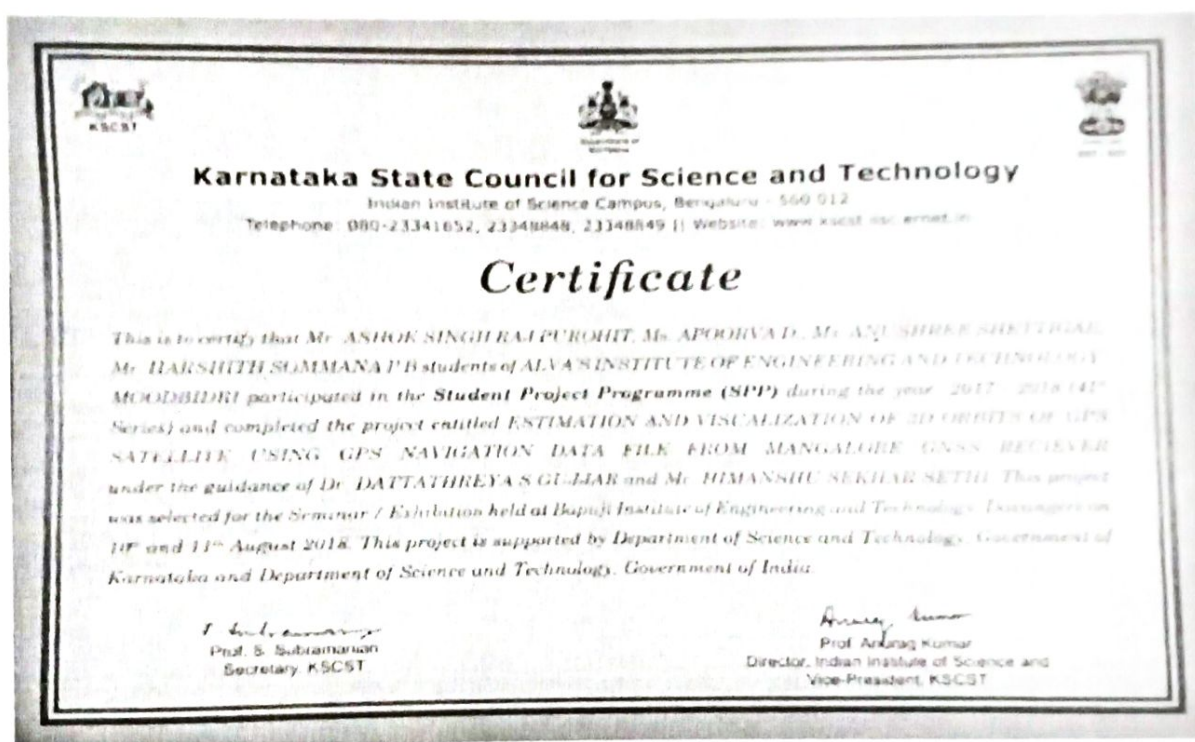
Name of students going to NARI:

Sl. No	NAME	USN	PHONE	EMAIL-ID	BATCH	PHOTO
1.	Ashok Singh Raj Purohit	4AL14EC014	8050377935	asrp1008@gmail.com	Batch -1	
2.	Harshith Somanna PB	4AL14EC038	7259389971	pb.harshith@gmail.com	Batch -1	
3.	Govindrao MMahendrakar	4AL14EC034	9538384718	govindraomm@gmail.com	Batch -2	
4.	ShashikumarMagadum	4AL15EC425	8792980683	shashimagadum95@gmail.com	Batch -2	

PRINCIPAL

Alva's Institute of Engg. & Technology

Mjar, MOODBIDRI - 574 225



The following mentioned students are doing their projects at NARL for the academic year 2108 -2019

Group 1 - Department of Electronics and Communication Engineering					
Duration – 11 Months (From September 2018 – July 2019)					
Faculty in charge – Dr. Dattathreya					
S.N	Name	USN	Sem	Ph Number	Email
1	A Shreya	4AL15EC001	7 Th	8277495081	shreyanaik332@gmail.com
2	Charan Raj S	4AL15EC017	7 Th	9591455928	crs.charanraj@gmail.com
3	Devika H S	4AL15EC019	7 Th	9148105447	devikaHS35@gmail.com

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(Himanshu S. Sethi)

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गादंकी/ GADANKI-517 112, ANDHRA PRADESH