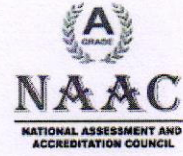




Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed-to-be-University under section 3 of UGC Act 1956)
BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF AERONAUTICAL ENGINEERING



Dr. M. Sundararaj M.E, Ph.D
Head

01/03/2018

Ref No:Cir/Aero/2018/028

CIRCULAR

This is to intimate the students that Value Added Program titled “Foundation Course on Geoinformatics” is scheduled to be conducted from 09.03.2018 . The course will be for a duration of 30 hours and will be conducted during weekends. Further Details can contact the Course Coordinator Mr.R.Karthikeyan. Assistant Professor Department of aeronautical Engineering.

Copy to:

1. Copy to All school of Engineering
2. Copy to Dean Engineering
3. Copy to Pro-VC
4. Copy to Office



HOD/Aero

Dr. M. SUNDARARAJ, M.E., Ph.D.,
HOD

Department of Aeronautical Engineering
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
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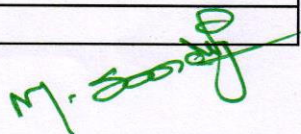
Department of Aeronautical Engineering

Value Added Course

Foundation Course on Geoinformatics

List of students Registered on 09.03.2018

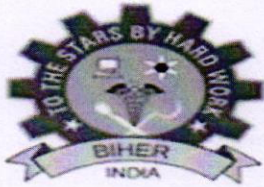
| SNO | Reg NO | Name of the Student |
|-----|----------|-----------------------------|
| 1 | U14AE002 | ABHISHEK REDDY CHEVELLA |
| 2 | U14AE004 | AFSANA BANU |
| 3 | U14AE005 | AKSHAY KUMAR GADE |
| 4 | U14AE006 | ANAND.M |
| 5 | U14AE011 | BANDARU SANTHOSH KUMAR |
| 6 | U14AE015 | BALINENI ANVESH |
| 7 | U14AE019 | CHARLES SAMEER TOPPO |
| 8 | U14AE020 | CHARUMATHI.P |
| 9 | U14AE022 | M.DEVA |
| 10 | U14AE028 | JAGANRAJ |
| 11 | U14AE030 | JAVEED THAMEEM ANSARI.M.S |
| 12 | U14AE033 | JINKA SURESH |
| 13 | U14AE036 | SHILPA KONGARA |
| 14 | U14AE043 | MOHDREHAN |
| 15 | U14AE045 | MONGAM NARENDRA KUMAR |
| 16 | U14AE046 | M KRISHNA VAMSI |
| 17 | U14AE049 | NAND KISHOR BHARTI |
| 18 | U14CS004 | ABDUL RAZVI .M.K |
| 19 | U14CS008 | AJAY.D |
| 20 | U14CS010 | AKHIL REDDY.G |
| 21 | U14CS011 | AKSHAY.R |
| 22 | U14CS019 | ARAMBAKAM,YASWANTH |
| 23 | U14CS053 | GODJSELA SRINATH |
| 24 | U14CS054 | GONTLA KARTHIK |
| 25 | U14CS069 | KARTHIKEYAN.J |
| 26 | U14CS082 | KRISHNANDAN YADAV |
| 27 | U14CS086 | LOKESHWARAN.A. |
| 28 | U14CS158 | SAMPA PARH |
| 29 | U14CS162 | SANTHOSH KUMAR.N |
| 30 | U14MT014 | PREMKUMAR.V |
| 31 | U14MT017 | RAMAKANTH.S |
| 32 | U14MT021 | SARAVANAN.P |
| 33 | U14MT022 | SHALIN MORAY.S |
| 34 | U14MT024 | VANNIYAR MANIKANDAN PERUMAL |
| 35 | U14MT026 | VIGNESH.R |
| 36 | U14EC078 | MANNEM MAHANTH REDDY |
| 37 | U14EC110 | PRASANNA.S |


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| | | |
|----|----------|-------------------------|
| 38 | U14EC113 | PUNUGOTI ANUSHA |
| 39 | U14EC114 | RACHAMADUGU MANISH |
| 40 | U14EC117 | PAWAR.SUSHEEL KUMAR |
| 41 | U14EC120 | SAI RINITHA.K |
| 42 | U14EC123 | CHEEDELLA SARACCHANDRA. |
| 43 | U14EC125 | SATHYA NARAYAN .R |
| 44 | U14EC126 | SHAIK AKHIL |
| 45 | U14EC128 | SHAIK.ALEEM |

M. S. S. S.



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Value Added Course

Foundation course on Geoinformatics

Objective :

This course would provide the participants with a full understanding of GIS concepts and principles and how it can be used for resource management and it is designed to expose participants to how GIS can be used to develop applications. Using real-life data, the participants will develop GIS databases. Participants will be introduced to basic principles of remote sensing, image processing and feature extraction methods as used for GIS. This course would provide the participants an appreciation of field-based data acquisition methods that can be used to build and update GIS spatial databases and provides participants the knowledge to design and develop visualisations of GIS data using cartographic design principles and desktop mapping software.

Course Co-ordinator: Mr.R.Karthikeyan

COURSE LAYOUT

| SNO | Date | Course Content | Duration | Instructor |
|-----|-----------------|---|----------|---|
| 1 | 09.03.2018 | Introduction to concepts; areas of application; system planning & acquisition; data automation; | 3 Hour | Mr.R.Karthikeyan, Assistant Professor, Department of Aeronautical Engineering, BIHER |
| 2 | 10.03.2018 (FN) | Implementation and evaluation strategies; costs and benefits analysis; spatial query and analysis; towards a national GIS/LIS strategy. | 3 Hour | Mr.N.Elumalai Assistant Professor, Department of Aeronautical Engineering, P.B.College of Engineering |
| 3 | 10.03.2018 (AN) | Conceptual and logical database design; building and coding the attributes; digitizing and scanning of maps; relating spatial and attribute data; using databases; and database management. | 3 Hour | Mr.R.Karthikeyan, Assistant Professor, Department of Aeronautical Engineering, BIHER |
| 4 | 17.03.2018 (FN) | Electromagnetic radiation and their interactions with surfaces. Remote sensing systems and sensors. Image processing techniques. | 3 Hour | Mrs.ArulSelvi, Assistant Professor Department of ECE -BIHER |
| 5 | 17.03.2018 (AN) | operation, infrastructural need, and sources of data. Terrestrial systems: establishment of controls detailed surveying, combination with satellite methods. | 3 Hour | Mr.N.Elumalai Assistant Professor, Department of Aeronautical Engineering, P.B.College of Engineering |

| | | | | |
|----|-----------------|--|--------|---|
| 6 | 24.03.2018 (FN) | Datums: traditional and satellite systems, conversion, and accuracy. Applications and quality assessment. | 3 Hour | Mrs.ArulSelvi, Assistant Professor Department of ECE -BIHER |
| 7 | 24.03.2018 (AN) | ArcGIS basics; creating views and themes; working with themes; the power of tables; spatial query and analysis; | 3 Hour | Mr.N.Elumalai Assistant Professor, Department of Aeronautical Engineering, P.B.College of Engineering |
| 8 | 31.03.2018 (FN) | Working with charts; creating a map layout; addresses and other events. Digital terrain models. Network analysis. Address-matching system. | 3 Hour | Mr.N.Elumalai Assistant Professor, Department of Aeronautical Engineering, P.B.College of Engineering |
| 9 | 31.03.2018 (AN) | Symbol design; name design and placement; concept of scale; map projections; data pre-processing techniques; thematic mapping; digital mapping | 3 Hour | Mr.R.Karthikeyan, Assistant Professor, Department of Aeronautical Engineering, BIHER |
| 10 | 01.04.2018 (FN) | GIS analysis, Classification Methods, Errors in GIS and Key elements of maps, Limitations of GIS | 3 Hour | Mr.N.Elumalai Assistant Professor, Department of Aeronautical Engineering, P.B.College of Engineering |

BOOKS AND REFERENCES

| | |
|-----------------------------|---|
| BOOKS AND REFERENCES | |
| 1 | James B. Campbell and Randolph H. Wynne, "Introduction to Remote Sensing", (5th Ed.), The Guildford Press, New York, 2012. |
| 2 | Lillesand, T.M., Kiefer, R.W. and Chapman, J.W., "Remote Sensing and Image Interpretation", (5th Ed.), John Wiley & Sons, 2007. |
| 3 | Gupta, R. P., "Remote Sensing Geology", 2nd Ed., Springer, 2003. |
| 4 | Drury, S. A., "Image Interpretation in Geology", 2nd Ed, Allen & Unwin, 1993. |
| 5 | Cracknell, A.P., "Introduction to Remote Sensing", (2nd Ed.), Tylor & Francis, London, 1991. |
| 6 | Gonzalez, Rafael C. and Richard E. Woods "Digital Image Processing", (3rd Edition) Pearson Education, London. |



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Department of Aeronautical Engineering

CERTIFICATE OF PARTICIPATION

This acknowledges that

M.DEVA
U14AE022

Has undertaken 30 hours course on "FOUNDATION COURSE ON GEOINFORMATICS"
organized by DEPARTMENT OF AERONAUTICAL ENGINEERING, BIHER FROM 09.03.2018 TO
01.04.2018.

Mr.R.Karthikeyan,
Program Coordinator

HOD/AERO



Sharath

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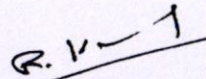
Department of Aeronautical Engineering

CERTIFICATE OF PARTICIPATION

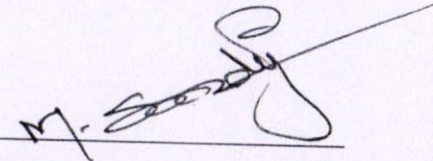
This acknowledges that

SANTHOSH KUMAR.N
U14CS162

Has undertaken 30 hours course on "FOUNDATION COURSE ON GEOINFORMATICS"
organized by DEPARTMENT OF AERONAUTICAL ENGINEERING, BIHER FROM 09.03.2018 TO
01.04.2018.



Mr.R.Karthikeyan,
Program Coordinator



HOD/AERO

Participant Feedback Form

(On course completion)

Date *1-04-2018*.....

Course *Foundation Course on Criminology*.....

Student Name (optional) *Abdul Rasheed*.....

Student ID (optional) *U14LS005*.....

a) Helpful and knowledgeable staff:

Very satisfied Satisfied Somewhat satisfied Not satisfied

b) Staff friendliness:

Very satisfied Satisfied Somewhat satisfied Not satisfied

c) Ease of registration:

Very satisfied Satisfied Somewhat satisfied Not satisfied

2. Is there anything we can improve with our registration process?

.....

B. The Training Facility

3. How satisfied were you with the training facility on the follow

a) Cleanliness of facility:

Very satisfied Satisfied Somewhat satisfied Not satisfied

b) Comfort of training room:

Very satisfied Satisfied Somewhat satisfied Not satisfied

4. Is there anything we can improve with any of the above?

.....

Participant Feedback Form

(On course completion)

Date 01/04/2018

Course Foundation Course on Geo Informatics

Student Name (optional) Karthick.V

Student ID (optional) U14 AM002

a) Helpful and knowledgeable staff:

Very satisfied Satisfied Somewhat satisfied Not satisfied

b) Staff friendliness:

Very satisfied Satisfied Somewhat satisfied Not satisfied

c) Ease of registration:

Very satisfied Satisfied Somewhat satisfied Not satisfied

2. Is there anything we can improve with our registration process?

.....

B. The Training Facility

3. How satisfied were you with the training facility on the follow

a) Cleanliness of facility:

Very satisfied Satisfied Somewhat satisfied Not satisfied

b) Comfort of training room:

Very satisfied Satisfied Somewhat satisfied Not satisfied

4. Is there anything we can improve with any of the above?

.....



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Department of Aeronautical Engineering

Value Added Course

Foundation course on Geoinformatics



Our Instructor” Mr.N.Elumalai ,Assistant Professor Department of Aeronautical Engineering P.B.College of Engineering” is Handling the session to our registered participants on Network Analysis