GEOGRAPHY DEPARTMENT

Prospects-2017-18

ADD-ON COURSE

"Fundamentals of GPS Survey"

Silent Features-

GPS is the need of present and in future. Global positioning System is one of the important parts of our life. Basic knowledge of GPS to the students is main objective.

Course Duration-

Duration of the Course is only 30 Hours conducting throughout the year.

Eligibility-

Any UG/PG enrolled Student of our college.

Student Intake-

30 Students.

Criteria of Certification-

80 % attendance is mandatory for both Classroom teaching and fieldwork/practical with creating map with the help of GPS.

S. P. Patil
Coordinator

ACTING PRINCIPAL
Swoddharak Vidyarthi Santha's
Dadasaheb Rawal College,
Dondaicha, Dist. Dhule·

Swoddharak Vidyarthisanstha's

Dadasaheb Rawal College, Dondaicha

Dadasaheb Rawal Knowledge city, Mandal road,Dondaicha, Dist. Dhule. (M.S.) Pin-425408.

Phone: - 02566-299346.

Affiliated to K. B. C. North Maharashtra University, Jalgaon

NAAC- Accredited 'A' grade (CGPA. 3.30)

Email: - svsasc@rediffmail.com Web: http://www.dadasahebrawalcollege.ac.in

Date- 19/07/2017

ADMISSION NOTICE

ADD- ON PROGRAM: 2017-18

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Contact

S. P. Patil

(Coordinator)

ACTING PRINCIPAL

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Dondaicha, Dist. Dhule·

Date: 19/07/2017

ADD-ON PROGRAM: 2017-18
"Fundamentals of GPS Survey"

Time Table

Semester 1st

Month	August	September
Day	Monday to Saturday	Monday to Saturday
Time	03.30pm to 05.30pm	03.30pm to 05.30pm

Satish Patil
Coordinator

ACTING PRINCIPAL
Principal
Swoddharak Vidyarthi Santha's
Dadasaheb Rawal College,
Dondaicha, Dist. Dhule·

Date : 19/07/2017

GEOGRAPHY DEPARTMENT
AIM- ON PROGRAM: 2017-18
"Fundamentals of GPS Survey-
Syllabus

Objectives

1 . To understand principles and applications of GPS.

2. To learn basics of CPS based survey.

3. To introduced students with advance techniques for data collection.

Sr No	Unit	Sub Units	Activity	Hours

1	Introduction to GPS	A. Global positioning system(GPS)
		  i) Introduction to GPS
		  ii) Working principles of (GPS)
		  iii) Functional Segments of GPS (Space Control and user)
		  iv) Errors of GPS
		B. Applications of GPS
			Theory	9

2	GPS Survey	i) Introduction and conversion of land measurement units in India ii) Determination of Latitudes, Longitudes and Altitude of a point.	Theory	06
3.	Practical of GPS	A. Survey with GPS of a field/plot/ground and preparation of contour map or layout map with area calculation using post processing software e.g. mapsource/Garmin B. Land measurement and area calculation	Practical	15

Important Notes:-

I. Total Duration of the Course is only 30 Hours

2, Classroom Teaching of 15 Hours Is arranged oiler regular teaching.

3. Criteria of Certification is 80% attendance for classroom teaching and successful completion of field work /Practical.

4. Students Prepare (11'S bused maps and Calculation in only sot) copy.

1). GNSS systems are _____.

      a) GPS   b) GLONASS   c) Galileo   d) All the above

2). During which year the project on GPS was launched?

      a) 1970   b) 1971   c) 1972   d) 1973

3). Global Positioning System (GPS) is operated by _____?

      a) Russian Space Force   b) China Space Force

      c) United States Space Force   d) French Air and Space Force

4). A receiver at GPS calculates the self time and position basing on the received data from the different _____.

      a) Satellites   b) Radio waves   c) Atomic clocks   d) None of the above

5). _____ is present on the satellites of GPS to contribute the accurate time information.

      a) Antenna   b) Transponder   c) Atomic clock   d) All the above

6). How many minimum satellites are operational in the constellation of GPS?

      a) 24   b) 25   c) 26   d) 27

7) The degradation in the quality of GPS by the government of the U.S. discontinued by whom?

      a) Ivan A. Getting   b) Bradford Parkinson   c) Friedwardt Winterberg   d) Bill Clinton

8). Which country developed GLONASS in contemporary with the GPS?

      a)China   b) India   c) Nepal   d) Russia

9). Galileo system for Navigation is operated by _____.

      a)China   b) India   c) Europe   d) Russia

10) Compass satellite system of navigation is operated under _____ government.

      a) Chinese   b) Indian   c) European   d) Russian

11). The GPS operated by Indians is _____.

      a) Compass   b) GLONASS   c) Galileo   d) NavIC

12). Once the Selective Availability got lifted the accuracy of GPS was for _____ meters.

      a) 3   b) 4   c) 5   d) 6

13) The mathematical principle involved in GPS is _____?

    a) Graphical Resection   b) Analytical Resection c) Trilateration   d) Triangulation

14) The services offered by GPS _____?

    a) Positioning, Navigation and Timing   b) Pollution, Navigation and Temperature

    c) Position, Navigation and Temperature   d) Position, Network and Timing

15) The satellites placed in the constellation of GPS arranged into _____ orbital are surrounded to Earth?

    a) Five   b) Six   c) Seven   d) Eight

16) The term 'Epoch' in GPS is a coded sequence of _____.

    a) Time of Departure   b) Time of Closure   c) Time of Arrival (TOA)   d) None of the above

17) The two satellites and its extensions connecting line forming the axis of _____.

    a) Parabola   b) Hyperboloid   c) Ellipse   d) None of the above

18) Based on _____ a receiver of GPS indicates how far the satellite located is.

    a) Time Difference   b) Time of Arrival   c) Time of Departure   d) Both b & c

19) The satellites meant for GPS orbits in _____.

    a) Low Earth Orbit (LEO)   b) Medium Earth Orbit (MEO)

    c) Geosynchronous Orbit (GSO)   d) Geostationary Equatorial Orbit (GEO)

20). How many satellites on the surface of Earth are used so that the location can be produced?

    a) Three   b) Four   c) Five   d) Six