

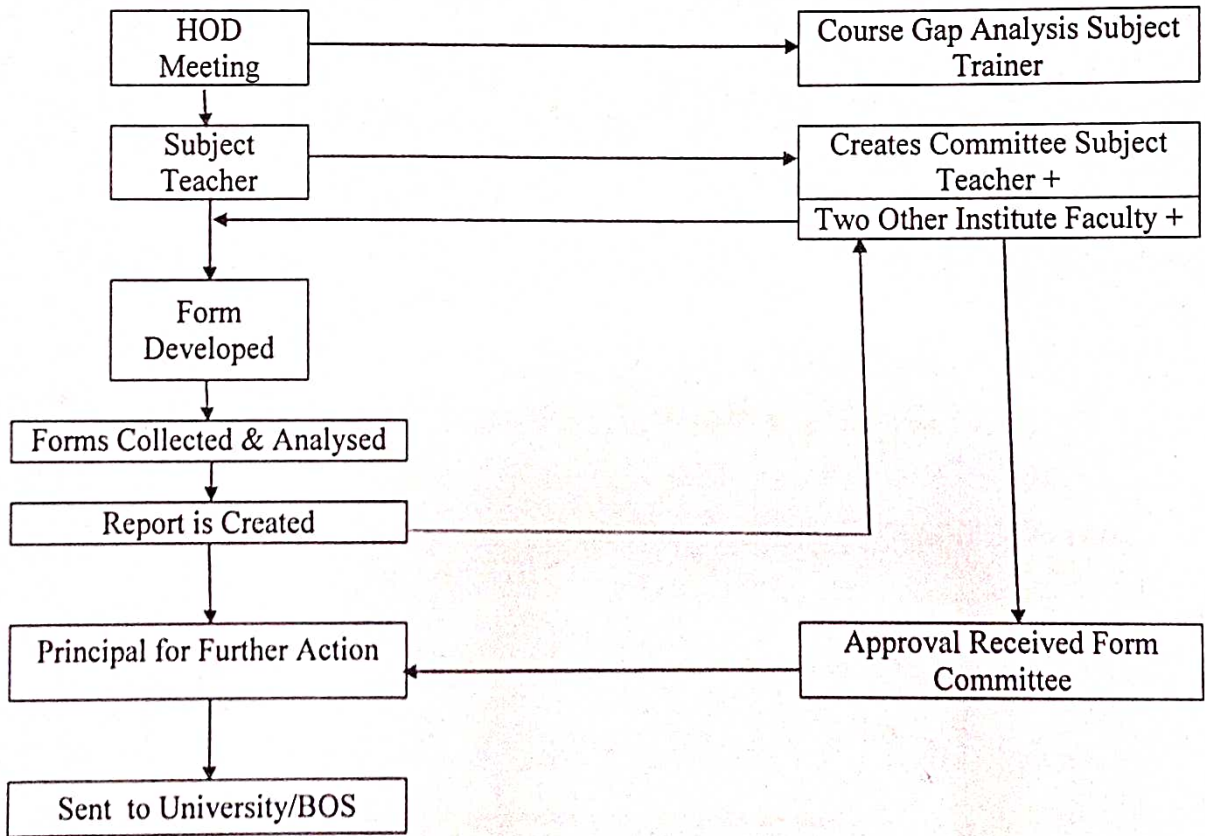


Vishwaniketan's

Institute of Management Entrepreneurship & Engineering Technology

[iMEET]

Structure for Course Analysis



Meeting NO. 35

Date

12/1/17

Notice :-

All the staff Members of civil Dept hereby informed that their Dept. meeting will be held on 12/1/17 at 140 pm at HOD cabin.

Agenda for the Meeting.

- 1) Time table :- proper location for PR & Tutorials.
- 2) Introduction of New Staff Members.
- 3) Role and responsibilities of Dept.
- 4) VAP program for BE & SE students.
- 5) Record book distribution and Information regarding filling.
- 6) Arrangement of Industrial visit and Guest lectures for the Sem.
- 7) Increase the Attendance of students for all year students.
- 8) Progress of project work of final year students.
- 9) Lab development review.
- 10) Lab requirement
- 11) Review of 21st Industrial interaction program.
- 12) Requirement of Dept.
- 13) Review ^{of} SLs Lecture ~~At 140 pm~~
- 14) Subject feedback from student
- 15) Formation of (comm)tee for external & internal. course Analysis

notes of the Meeting

Responsibilities of every faculty members were discussed again so that the new faculty members will get idea about it.

Parents meeting: It will be conducted after 1st unit test. And the details regarding that meeting was discussed.

lab development: Charts, standard handling procedure should be demonstrated.

com lab: Rearrangement of the lab was discussed.

ecotech lab: Respective In-charge has been told to look in the lackings.

TRE lab: Development of this lab needs to be done.

Concrete lab:

Dept. Requirement:

• LCD - projector.

is

> Gettogether of technical people: 21 Jan 2011

~~is~~ Felicitation

i) Transportatⁿ: Kushal Thul & Abhishek Shirsat.

ii) Welcome commity: Felicitatⁿ: Kalyani Mam, Minal Tikam.

iii) Photographer: Sachin Pawar.

Student's transportatⁿ: ~~Sachin Pawar~~ Sachin Pawar, Kiran Thombre.

iv) Refreshment: ~~Kiran Thombre~~ ^{Prof. Rahul More} & Amit Sawant.

v) Dipak Kelakar: Special appreciatⁿ.

vi) Technical: Pravin Patil & Abhishek Shirsat.

* Recieving at entrance: Deshpande Mam, Prof. Lele.

• course analysis committee for surveying -

prof. shantku salvarn - SOCE

prof. shreshthai Gaitwad - YTCO

prof. shilpa deshpande - VIMEET

prof. Kiran thombare - VIMEET

Shilpa Deshpande -

M.D. Lela

- 1) Kalyani Wakhate.
- 2) D. Kishorka
- 3) K.B. Thombre.
- 4) Pravin P. Paril
- 5) Sachin Pawar
- 6) Abhi Shirsal
- 7) Minal R. Titum
- 8) Sneha Hirkare
- 9] Amit P. Sawant
- 10] Rupesh A. Devale
- 11] ~~Kushal Thakur~~

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Vishwaniketan's
Institute of Management Entrepreneurship & Engineering Technology
[iMEET]

Date: 17 -01-2017

To,

Prof. Shamthi Salvam.

Saraswati College of Engineering, Kharghar

College in Navi Mumbai, Maharashtra

Dear faculty,

We are constituting committee for gap analysis of various subject of Mumbai University. This effort is carried out to enhance students learning as well as skill levels. You being an expert/regular course teacher. We co-ordinally invite you on course analysis committee.

Thanking you

Subject Teacher

HOD

Civil Engineering



Vishwaniketan's
Institute of Management Entrepreneurship & Engineering Technology
[iMEET]


Date: 17-01-2017


To,
Prof. Shreeshail Gaikwad.
Yadavrao Tasgaonkar College
of Engineering & Management,
Karjat.

Dear faculty,

We are constituting committee for gap analysis of various subject of Mumbai University. This effort is carried out to enhance students learning as well as skill levels. You being an expert/regular course teacher. We co-ordinally invite you on course analysis committee.

Thanking you


Subject Teacher


HOD
Civil Engineering



Vishwaniketan's
Institute of Management Entrepreneurship & Engineering Technology
[iMEET]

Course analysis committee

Subject name: - Surveying

Date:- 17/01/2017

Sr.No	Faculty name	No. years of experience	Name of Institute	Contact number
1	Prof. shamthi salvam	12 years	Saraswati College of Engineering, Kharghar College in Navi Mumbai, Maharashtra	9821996170
2	Prof. Shreeshail Gaikwad	12 years	Yadavrao Tasgaonkar College of Engineering & Management, Karjat.	9763024733
3	Prof. Shilpa Deshpande	16 years	Vishwaniketan's Institute of Management Entrepreneurship & Engineering Technology [iMEET]	9561285795
4	Prof. Kiran Thomabre	4years	Vishwaniketan's Institute of Management Entrepreneurship & Engineering Technology [iMEET]	8766726008

Subject Teacher

HOD

Civil Engineering



Vishwaniketan's
Institute of Management Entrepreneurship & Engineering Technology
[iMEET]

Date: 08-02-2017

To,
The principal,
ViMEET Khalapur.

Subject: - Recommendation from course analysis committee.

Respected sir,

As per the discussion we had on course analysis, letter dated 17/01/2017. We have conducted course analysis in which 4 teachers and 135 students participated.

Please find a copy of report attached here with for further actions.

Subject Teacher

HOD

Civil Engineering

Incl:-

1. Course analysis report.
2. Sample course copy original with structure.



Vishwaniketan's
Institute of Management Entrepreneurship & Engineering Technology
[iMEET]

Date- 21/01/2017

Notice

Subject- Regarding surveying subject feedback

All the second year students are hereby informed that, kindly give your valuable feedback on surveying subject on or before on 28/01/2017. Also, collect feedback form from subject faculty.

Subject Faculty

HOD

Civil Department

Semester III		
Subject Code	Subject Name	Credits
CE-C 302	Surveying – I	5

Teaching Scheme						
Contact Hours			Credits Assigned			
Theory	Practical	Tutorial	Theory	Practical	Tutorials	Total
04	02	-	04	01	-	05

Evaluation Scheme								
Theory					Term Work/ Practical/Oral			Total
Internal Assessment			End Sem Exam	Duration of End Sem Exam	TW	PR	OR	
Test 1	Test 2	Average						
20	20	20	80	03 Hrs.	25	-	25	150

Rationale

Surveying is a core subject for civil engineers. It is the first step towards all civil engineering projects. A good surveyor is an asset to the company, organization or establishment. All the civil engineering projects such as buildings, transportation systems including roads, bridges, railways, airports along with dams and water/ sewage treatment plants start with surveying as the basic operations. Hence, the knowledge of surveying is very essential to all the civil engineering professionals. In this subject, the students get acquainted with the basic methods and instruments that are used in surveying and it helps them to produce plans and sections. It is also useful in setting out civil engineering structures on construction sites.

Objectives

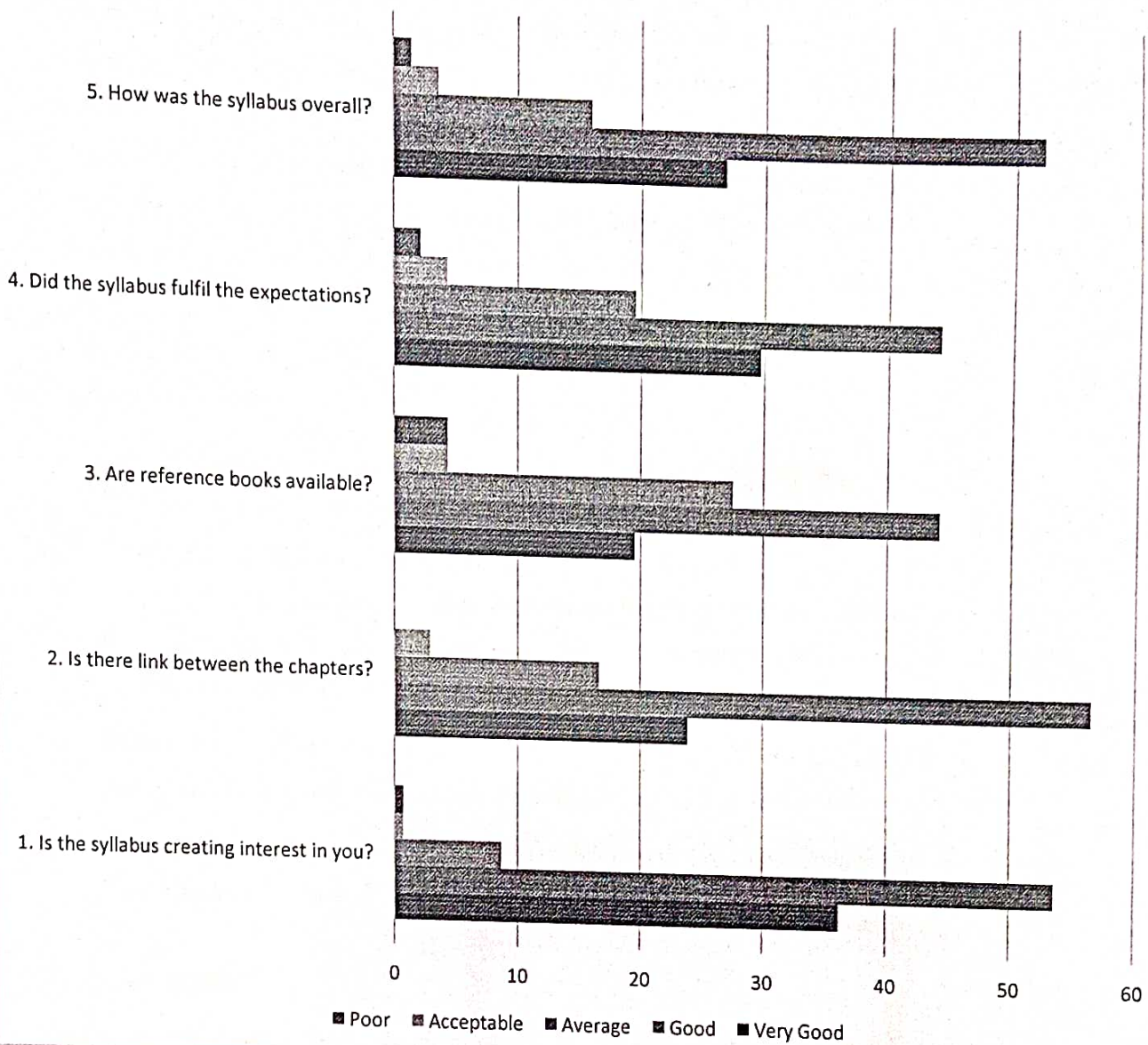
- To understand appropriate methods of surveying based on accuracy and precision required availability of resources, economics and duration of project.
- To study techniques for measurement of distance, setting offsets, calculate area and volume using surveying instruments
- To study the functions of various instruments, their least counts, possible errors, advantages and limitations.
- To study various techniques for solving Surveying related problems.
- To study the superiority and leverage of using modern methods in surveying over conventional ones.

Detailed Syllabus

Module	Sub-Modules/ Contents	Periods	
I.	1. Introduction	08	
	1.1		Definition, principles, objectives, classification, technical terms, uses and necessity of surveying. Units of measurement, surveying measurement and errors, type of errors and their corrections (including numericals), corrections for wrong scales, accuracy and precision, stages of survey operations
	1.2		Chaining, Ranging and offsetting: Definitions, Principles, Types, Instruments required, methods, obstacles (including numericals), sources of errors, conventional signs and symbols.
	1.3		Electronic Distance Measurement: Working Principles, types, applications in surveying
II.	2. Measurement of Directions and Angles	10	
	2.1		Basic definitions, meridians, bearings, magnetic and true bearings, compasses, prismatic and surveyor's, temporary adjustments, declination, dip, local attraction
	2.2	Types of traverse, procedures, control establishments, Conversion of WCB into RB and vice-versa, Traverse Survey and Computations of interior angles of a closed Traverse. Adjustment of closing error, correction for local attraction.	
III.	3. Levelling and its application	12	
	3.1		Introduction to levelling, basic terms and definitions, types of instruments, construction and use of dumpy level, auto level, digital level and laser level in construction industry, principle axes of dumpy level, temporary and permanent adjustments
	3.2		Booking and reduction of levels, plane of collimation (HI) and rise-fall methods, computation of missing data, distance to the visible horizon, corrections due to curvature and refraction, reciprocal levelling, Numerical problems
	3.3	Differential levelling, profile levelling, fly levelling, check levelling, precise levelling, sources of errors, difficulties in levelling work, corrections and precautions in levelling work.	

	4. Plane Tabling, Contouring, Area and Volume	08
IV.	4.1	Plane Table Surveying: Definition, principles, accessories required for plane table surveying, merits and demerits, temporary adjustments, Different methods of plane table surveying, Errors in plane table surveying, Use of telescopic alidade.
	4.2	Contouring: definitions, contour interval, equivalent, uses and characteristics of contour lines, direct and indirect methods of contouring. Grade contour: definition and use.
	4.3	Area: Area of an irregular figure by trapezoidal rule, average ordinate rule, Simpson's 1/3 rule, various coordinate methods. Planimeter: types including digital planimeter, area of zero circle, uses of planimeter.
	4.4	Volume: Computation of volume by trapezoidal and prismoidal formula, volume from spot levels, volume from contour plans.
	5. Theodolite Traversing	10
V.	5.1	Various parts and axis of transit, technical terms, temporary and permanent adjustments of a transit, horizontal and vertical angles, methods of repetition and reiteration.
	5.2	Different methods of running a theodolite traverse, Latitudes and departures, rectangular coordinates, traverse adjustments by Bowditch's, transit and modified transit rules, Gales Traverse Table, Numerical Problems.
	5.3	Use of theodolite for various works such as prolongation of a straight line, setting out an angle, bearing measurements. Omitted measurements, Problems in using theodolite traversing, errors in theodolite traversing; Trigonometrical Levelling: Problems on one plane and two plane methods,
	6. Tacheometric surveying	06
VI.	6.1	Principle, purpose, uses, advantages and suitability of tacheometry, different methods of tacheometry, stadia formula, Stadia diagram and tables. Sub-tense bar method.
	6.2	Application in plane table and curve setting.
	6.3	Radial Contouring.
	Total	52

Analysis of Feedback by Students on Syllabus



Most of the students are of the opinion that the syllabus is interesting with a good link between the chapters. Few of the students felt that more reference books could be made available. Overall, the syllabus was able to meet the expectations of the students.

Feedback from students

1. The content is well organized and focused on practical situations.
2. Very good hands on training.
3. I enjoyed the course and learned a lot from it. The content is well organized and focused on practical situation.

Contribution to Outcomes

On completion of the course, the learners will be able to:

- Apply principles of surveying and leveling for civil engineering works
- Measure vertical and horizontal plane, linear and angular dimensions to arrive at solutions to basic surveying problems.
- Perform various practical and hence projects using different surveying instruments.
- Apply geometric principles for computing data and drawing plans and sections
- Analyze the obtained spatial data and compute areas and volumes and represent 3D data on plane surfaces (2D) as contours

Theory examination:

1. The question paper will comprise of six questions; each carrying 20 marks.
2. The first question will be compulsory and will have short questions having weightage of 4–5marks covering the entire syllabus.
3. The remaining five questions will be based on all the modules of the entire syllabus and may be. For this, the modules shall be divided proportionately and further, the weightage of the marks shall be judiciously awarded in proportion to the importance of the sub-module and contents thereof.
4. Remaining questions will be mixed in nature (e.g. Suppose Q.2 has part (a) from module II then part (b) will be from any module other than module II).
5. The students will have to attempt any three questions out of remaining five questions.
6. Total four questions need to be attempted.

Oral Examination:

The oral examination will be conducted in conjunction with the practical/s and will be based on the entire syllabus and the term work. The weightage of the practical examination will be of 10 marks and that of oral, 15 marks.

List of Practical:

1. Computing area of polygon by chaining, ranging and offsetting and verify distances by EDM
2. Measuring bearing of closed traverse using Prismatic/Surveyor's compass and computing included angle.
3. Simple and differential levelling using dumpy level
4. Transferring R.L from benchmark to new point by auto level/digital level with at least three change points and performing check levelling
5. Measurement of horizontal angle by Repetition and Reiteration Method using Vernier Transit theodolite.
6. To find the constants of a tachometer and to verify filed distances.

7. To find R.L and distances by tachometric surveying.
8. To find height of inaccessible tower using one plane and two plane methods using Vernier Transit theodolite.
9. Plane table surveying by various methods with at least four stations.
10. Determination of areas of irregular figures by conventional/digital planimeter

Internal Assessment:

There will be two class tests (to be referred to as an 'Internal Assessment) to be conducted in the semester. The first internal assessment (IA) will be conducted in the mid of the semester based on the 40% of the syllabus. It will be of 20 marks. Similarly, the second internal assessment (IA) will be conducted at the end of the semester and it will be based on next 40% of the syllabus. It will be of 20 marks. Lastly, the average of the marks scored by the students in both the Internal Assessment will be considered. Duration of both the IA examination will be of one hour duration, respectively.

Term work:

It shall consist of the following:

- Field book based on afore-mentioned practicals conducted on and off the field.
- The account of practical performed with aim, apparatus, observations, calculations, results and inferences.
- The assignments shall comprise of the minimum 20 problems covering the entire syllabus divided properly module wise.

Distribution of the Term Work Marks:

The marks of the term work shall be judiciously awarded for the various components of the term work and depending upon the quality of the term work. The final certification and acceptance of term work warrants the satisfactory performance of laboratory and field work by the student, appropriate completion of the assignments. Broadly, the split of the marks for term work shall be as given below. However, there can be further bifurcation in the marks under any of the heads to account for any sub-head therein.

Assignments on entire syllabus	: 10 marks
Practical	: 10 marks
Attendance (Theory and Practical)	: 05 marks
Total	: 25 marks

Further, while giving weightage of marks on the attendance, following guidelines shall be resorted to.

75%– 80%: 03 Marks; 81%– 90%: 04 Marks 91% onwards: 05 Marks

Recommended Books:

1. Surveying and Leveling: Vol-I and II: *Kanetkar and Kulkarni*, Pune VidyarthiGriha, Pune.
2. Surveying and Levelling: *N.N.Basak*, Tata McGraw Hill, New Delhi.
3. Surveying: *R. Agor*, Khanna Publishers.
4. Surveying: Vol-I: *Dr K.R. Arora*, Standard Book House.
5. Surveying and Levelling (2nd Edition): *R. Subramanian*; Oxford Higher Education.
6. Surveying and levelling (Vol.-I): *Dr. B.C. Punmia*, Laxmi Publications.
7. Surveying and Levelling (Vol.-I): *S.K. Duggal*, Tata Mc-Graw Hill
8. Textbook of Surveying, By *C Venkatramaiah*, University Press, Hyderabad, Latest Edition

Web Materials:

1. <http://nptel.ac.in/courses/105107122/>



Vishwaniketan's

Institute of Management Entrepreneurship & Engineering Technology

[iMEET]

Student Subject Feedback Form

Name of Student Dhamane Sandesh

Course and Branch SE B civil

Subject Name:- Surveying

Roll No. B15

Date:- 23/01/2017

		Very Good	Good	Average	Acceptable	Poor
		1	2	3	4	5
1.	Is the syllabus creating interest in you?		✓			
2.	Is there link between the chapters?			✓		
3.	Are reference books available?			✓		
4.	Did the syllabus fulfil the expectations?				✓	
5.	How was the syllabus overall?		✓			

Suggestion: -----



Vishwaniketan's

Institute of Management Entrepreneurship & Engineering Technology

[iMEET]

Student Subject Feedback Form

Name of Student Bhoite Varsha

Course and Branch Civil SE A

Subject Name:- Surveying

Roll No. A05

Date:- 22/01/2017

		Very Good	Good	Average	Acceptable	Poor
		1	2	3	4	5
1.	Is the syllabus creating interest in you?		✓			
2.	Is there link between the chapters?			✓		
3.	Are reference books available?				✓	
4.	Did the syllabus fulfil the expectations?		✓			
5.	How was the syllabus overall?			✓		

Suggestion: -----



Vishwaniketan's

Institute of Management Entrepreneurship & Engineering Technology

[iMEET]

Student Subject Feedback Form

Name of Student *Ratil Nirvuti*

Course and Branch *Civil SE A*

Subject Name:- *Surveying*

Roll No. *A49*

Date:- *23/01/2017*

		Very Good	Good	Average	Acceptable	Poor
		1	2	3	4	5
1.	Is the syllabus creating interest in you?		✓			
2.	Is there link between the chapters?	✓				
3.	Are reference books available?			✓		
4.	Did the syllabus fulfil the expectations?			✓		
5.	How was the syllabus overall?		✓			

Suggestion: -----



Vishwaniketan's

Institute of Management Entrepreneurship & Engineering Technology

[iMEET]

Student Subject Feedback Form

Name of Student *Mhabe Anita*

Course and Branch *SE B civil*

Subject Name:- *surveying*

Roll No. *B31*

Date:- *29/01/2017*

		Very Good	Good	Average	Accept able	Poor
		1	2	3	4	5
1.	Is the syllabus creating interest in you?	<input checked="" type="checkbox"/>				
2.	Is there link between the chapters?		<input checked="" type="checkbox"/>			
3.	Are reference books available?			<input checked="" type="checkbox"/>		
4.	Did the syllabus fulfil the expectations?				<input checked="" type="checkbox"/>	
5.	How was the syllabus overall?		<input checked="" type="checkbox"/>			

Suggestion: -----

Analysis of Feedback by Students on Surveying


Feedback was collected from the Students on curriculum. A five-point scale feedback form on curriculum was developed for the same. We had received a total of 138 responses from the students of SE Civil programme on the curriculum designed by Mumbai University.

Table showing Feedback by Students on Subject of Surveying

Sr. No	Particulars	Response in %				
		Very Good	Good	Average	Acceptable	Poor
		1	2	3	4	5
1.	Is the syllabus creating interest in you?	36	54	9	1	1
2.	Is there link between the chapters?	24	57	17	3	0
3.	Are reference books available?	20	44	28	4	4
4.	Did the syllabus fulfil the expectations?	30	44	20	4	2
5.	How was the syllabus overall?	27	52	16	4	1

Following are the suggestion received from students which was based on surveying syllabus.

1. Actual field experience is required to use need hands on Training.
2. Acquire skill for handling the instrument.
3. Knowledge about modern instruments and practice to handling and actual application.



Subject Faculty



HOD
Civil Department



VISHWANIKETAN

Vishwaniketan's Institute of Management Entrepreneurship & Engineering Technology [ViMEET]

Affiliated to University of Mumbai, Approved by AICTE, New Delhi

DTE CODE: EN 3467

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Mr. Madhu Bathija
President

Mr. Sunil Bangar
Secretary

Dr. B. R. Patil
Principal

Ref.No: ViMEET/Feedback /CE- /2017-18

Date: 05-03-2017

To
Chairman,
Board of Studies in Civil Engineering,
University of Mumbai,
Fort, Mumbai.

Subject: - Recommendation for course improvement for A.Y. 2017-2018

Respected sir,

As a part of quality assurance initiative of Vi MEET, we have conducted course gap analysis by expert teachers who have taught this course or has been dealing with subject area as a competent practioner. We modestly reviewed the attached document with a spirit to improve students learning experience. We take this opportunity to inform you, outcomes of our efforts.

We believe university will also appreciate the continuous improvement strategic measures conducted by our organization

Thanking you.


PRINCIPAL

Principal
Vishwaniketan's (I MEET)