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**REVIEW OF LITERATURE**

**NEED/IMPORTANCE OF THE STUDY**

**STATEMENT OF THE PROBLEM**

**OBJECTIVES**

**HYPOTHESES**

**RESEARCH METHODOLOGY**

**RESULTS & DISCUSSION**

**FINDINGS**

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## A STUDY OF STUDENT'S PERCEPTION FOR SELECTION OF ENGINEERING COLLEGE: A FACTOR ANALYSIS APPROACH

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### ABSTRACT

*This paper proposes and describes student's perception towards selection of engineering college. Implicit in this theory is the notion that engineering college selection may be viewed as a process which consists of a sequence of interrelated stages. It is posited that students move through these series of stages as they search for desirable colleges. This paper attempts at studying all those aspect which are taken into consideration by a higher secondary passed student while taking admission in an engineering college. Now a days number of engineering institutes in India are catering to a lot of marketing activity, which perplex the students and have substantial effect on the decision making process, which again leads to their expectations. Selecting engineering institutes is high involvement decision for any individual as it determines his career and therefore, the information search behavior is very important. A brief questioner which measures the influence of factors on college choice was administered amongst 100 students seeking admission for engineering colleges. The relationship of these factors to gender, college, aptitude, distance of home and some important factors were examined through factor analysis approach. This research has been undertaken to study and examine the perception of students about the engineering colleges. From the research it is concluded that the five important variables contributing in decision making of the students for selection of institute are Placement activities of the institute and package offered by the recruiters, the recruiters, Alumni opinion, availability of workshops and laboratories and suggestion given by coaching institutes.*

### KEYWORDS

Factors, Factor analysis, motivation, Perceptions.

### INTRODUCTION

In today's competitive environment, rendering quality service is a key for success, and many experts concur that the most powerful competitive tool currently reshaping marketing and business strategy is service quality. Service quality is a pervasive strategic force and a key strategic issue in any organization. It is no surprise that practitioners and academicians are keen on accurately measuring and understanding issues affecting service quality delivery. Today, many universities are being driven towards commercial competition imposed by environmental challenges. Institutions, in general, need to be concerned not only with what the society values in the skills and abilities of their graduates, but also how their students feel about their educational experience (Bemowski, 1991). Perception plays a key role in college selection. How much prestige, honor, or academic glory can be attained by attending engineering institute? What about a university? Or, in contrast, the perceived status or Image plays a huge role in college selection. Perception is the act or faculty of apprehending by means of the senses or of mind: cognition; understanding. How students perceive service quality is critical because it determines how they evaluate the service. Students evaluate a service based on their expectations. Because expectations are dynamic, evaluations may also shift from time to time. Thus, how customers (students) evaluate what they term as a quality service today, (based on some criterion) may change tomorrow. This calls for continuous monitoring and evaluations of service quality in any service firm.

There are many factors that go into college selection, as well as college perception. The main socializing agents of family, friends, school, and media can help to create how engineering colleges are perceived; perhaps that is where India's bias begins. Research suggests that some agents have more influence than others. The purpose of the study was to illuminate students' views on how it affect and influence their career decisions. Many economists feel that the nation has failed to take advantage of its greatest resource, this being its diverse population. Some of the reasons for this failure are reflected in challenges that are apparent when seeking to attract a diverse population of students to the fields of engineering and other related professions. The college choice is a decision influenced by a number of demographic, economic, social, political, and institutional factors. Different types of students chose to attend certain universities on the basis of one or more factors that link directly to their characteristics and needs. Major factors cited in the literature to influence college choice are: the advice of parents, academic reputation of the institution, availability of the desired program, availability of financial aid, cost of attending the institution, and the location of the college.

Is the students' perception of the college determined by their motivations to attend? For example, are students more satisfied if they chose to attend when they had other options or less satisfied if they were forced by their financial circumstances? This is the aim of this study to determine the perceptions and motivations of students attending engineering students. Therefore, to study the important attributes especially institutional factors that affect students' college choice decision in higher education institutions become pertinent on the part of marketing strategy planning for students' recruitment of higher educational institutions.

### LITERATURE REVIEW

Joseph & Joseph (2000) concluded that course and career information, and physical aspects and facilities and facilities are critical issues that must be kept in mind when educational institutions are trying to create sustainable competitive advantages in marketing strategies. Leblance and Nguyen (1999) identified perceptions of price in the form of the price/quality relationship as most important factors, while Ford et al. (1999) recognized academic reputation, cost/time issues and program issues as the determinants of universities choice. Sevier (1986) stated that research has consistently shown that college or university location can be a major factor for potential student's decision to apply and enroll. Some students may be looking for a school close to their hometown or place of work for convenience and accessibility (Absher & Crawford, 1996; Servier, (1994). A study by Kohn et al. (1976) discussed that an important factor in student predisposition to attend college is the close proximity of a higher education institution to home. It was found that a low-cost, nearby college was an important stimulator of a student's decision to further his or her education. Hossler & Gallagher (1990) also concluded that the proximity to a college campus does affect college attendance rates. Students who live close to a campus are more likely to attend college though they may not attend the campus located near home. As a result, this study hypothesizes that location has a significant influence on college choice decision. Tapan Kumar Nayak & Manish Agrawal(2010), through their research focused on the most important factors that the students keep in the mind while selecting a particular B- School .and suggested how a marketing communication based on these factors can help to these B-school to gain competitive edge.

**OBJECTIVES OF THE STUDY**

- To identify and examine the factors responsible for the selection of engineering college.
- To rank the effective factors responsible for the selection of engineering college.
- To identify the factors which are been ignored by the students while selecting the engineering College
- To find out the sources through which students outlines an opinion about engineering colleges
- To identify the key dimensions/factors that influence students' decision in college selection.
- To determine the nature and strength of relationship between service quality dimensions and perception

**METHODOLOGY**

The objectives of the study indicate that the study must be carried out at micro level. We elucidate the concept of factor analysis and sampling design, based on the literature pertaining to the student's perception about the engineering college. To study the factors affecting the selection of an engineering college in India the *factor analysis* is being used in our study.

**FACTOR ANALYSIS**

The factorial analysis allows a reduction in the number of variable to be groped in to common factors. The use of factor analysis in this study is relevant because it identifies the salient attributes, which potential students use to evaluate an engineering institute. Further, we have also used quantitative marketing research techniques to collect data from a sample of 100 students concerning their ratings of all the institutional attributes.

The main applications of factor analysis technique are:

1. To reduce the number of variables and
2. To detect structure in the relationship between variables, that is to classify variables.

Therefore, factor analysis is applied as data reduction or structured detection method. (Factor analysis was first introduced by Thurstone-1931). The research methodology is broadly divided under the heading as follows:

- a) Sampling Design: The sampling technique used in the study is non-probability sampling. It is convenient sample with a judgmental basis. The sample unit is taken as students who have passed their higher secondary examination. The total sample size is 100.
- b) Research Design: While determining the various factors, exploratory study was carried out with the help of secondary data. Once the basic factors of the study were found a descriptive study was carried out to know the preferences of the respondent.
- c) Data Collection: Data was collected with the help of primary survey as well as secondary sources. The primary data was collected with the help of a close ended -structured questionnaire, designed on a semantic differential scale.
- d) Data Analysis: The data is analyzed with the help of factor analysis, to reduce excessive data and correlation techniques. The factors are differentiated with the various variables that are strongly correlated to them. Independent but like factors were grouped by their factor loadings and the result were analyzed by the varimax rotation. The study is based on 44 independent/dependent variables, which were again toned down to 11 different factors with the help of data reduction technique (**factor analysis**), based on most significance to the respondents.

**ANALYSIS AND INTERPRETAION****PARAMETERS TAKEN IN THE STUDY**

- 1) Institutional Service Standards:
  - i) University
  - ii) Certified from National Board of Accreditation(NBA)
  - iii) ISO Certification
  - iv) Placement Cell
  - v) Recruiters
  - vi) Package offered by the recruiters
  - vii) Training Programme
  - viii) Technical events
  - ix) Opportunity to handle live project
  - x) Academic qualification of Faculty Members
  - xi) Teacher student ratio
- 2) Institutional Environment:
  - i) College location
  - ii) The city is attractive
  - iii) The city having facility for further study
  - iv) Easy transportation facility (Connectivity with other area)
  - v) Accommodation
  - vi) Safety
  - vii) Existence of cultural activities
  - viii) Existence of health care means
- 3) Brand :
  - i) Ranking given to the college
  - ii) Golden History of the college
  - iii) Reputation of the institute
- 4) Institutional Infrastructure:
  - i) Size of the building
  - ii) Physical Facilities
  - iii) Accessibility of all facilities
  - iv) Workshops & Laboratory
  - v) Library resource
  - vi) Fast search facility in library
  - vii) E-Library
  - viii) Wi-Fi zone
  - ix) Smart classroom equipped with modern pedagogy
  - x) Canteen facilities
  - xi) Extracurricular activities organized by college
  - xii) Sponsorship to attend development program at university level
  - xiii) Stipend



- 5) Sources used to form perception:
- Opinion of friends and family
  - Coaching institutes
  - Self visit to college
  - Alumni opinion
  - Event & exhibition
  - Publicity
- 6) Financial factors :
- Fee structure
  - Loan facility
  - Scholarship

The above cited parameters have been classified into 11 factors with the help of data reduction techniques (factor analysis). The results are shown as follows:

TABLE 1: KMO AND BARTLETT'S TEST(a)

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.	.425
Bartlett's Test of Sphericity	Approx. Chi-Square
	Df
	Sig.
	4482.225
	946
	.000

The Bartlett's Test of sphericity is used here to decide whether the results are worth considering or not. The Bartlett's Test of sphericity significant to a level of significance of 0.000 indicates that there is a high level of correlation between variables; therefore factor analysis is being applied.

### FACTOR ANALYSIS AND ITS RESULTS

A data of 100 students who have cleared Engineering Entrance Exam (PET) were randomly surveyed. The use of factor analysis in this study is relevant as it helps in identifying the variables which are taken into consideration by the students seeking admission. The main applications of factor analytic technique are:

- To reduce the number of variables
- To detect structure in the relationships between variables, that is to classify the variables.

The result of factor analysis after varimax rotation, has grouped the data into **11 factors**. Table 2 below is the representation of the variance explained in terms of 11 factors extracted. The Eigen value chart is show below:

TABLE 2: TOTAL VARIANCE EXPLAINED

Component	Initial Eigen Values(a)			Extraction Sums of Squared Loadings			Rotation Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	19.782	20.093	20.093	19.782	20.093	20.093	9.167	9.311	9.311
2	15.244	15.484	35.576	15.244	15.484	35.576	7.436	7.553	16.864
3	11.416	11.596	47.172	11.416	11.596	47.172	8.713	8.851	25.715
4	7.781	7.903	55.076	7.781	7.903	55.076	9.225	9.37	35.085
5	6.116	6.213	61.288	6.116	6.213	61.288	9.929	10.085	45.17
6	5.816	5.907	67.195	5.816	5.907	67.195	8.244	8.374	53.544
7	4.646	4.72	71.915	4.646	4.72	71.915	7.049	7.16	60.704
8	4.016	4.079	75.994	4.016	4.079	75.994	5.866	5.958	66.662
9	2.798	2.842	78.836	2.798	2.842	78.836	7.117	7.229	73.891
10	2.541	2.581	81.417	2.541	2.581	81.417	4.248	4.315	78.206
11	2.322	2.359	83.776	2.322	2.359	83.776	5.483	5.569	83.776

TABLE 3: COMMUNALITIES

	Raw		Rescaled	
	Initial	Extraction	Initial	Extraction
VAR00001	2.401	2.007	1.000	.836
VAR00002	3.958	3.611	1.000	.912
VAR00003	.961	.536	1.000	.557
VAR00004	1.148	.772	1.000	.672
VAR00005	.740	.233	1.000	.314
VAR00006	.596	.346	1.000	.580
VAR00007	.933	.530	1.000	.568
VAR00008	1.851	1.508	1.000	.815
VAR00009	2.273	1.893	1.000	.833
VAR00010	2.642	2.273	1.000	.860
VAR00011	1.715	1.361	1.000	.794
VAR00012	3.692	3.452	1.000	.935
VAR00013	2.755	2.443	1.000	.887
VAR00014	.659	.451	1.000	.684
VAR00015	2.985	2.522	1.000	.845
VAR00016	4.842	4.575	1.000	.945
VAR00017	3.456	3.132	1.000	.906
VAR00018	2.160	1.872	1.000	.867
VAR00019	1.481	1.022	1.000	.690
VAR00020	2.572	2.030	1.000	.789
VAR00021	1.483	.930	1.000	.627
VAR00022	.568	.293	1.000	.515
VAR00023	2.081	1.622	1.000	.779
VAR00024	1.048	.672	1.000	.641
VAR00025	1.017	.756	1.000	.744
VAR00026	.269	.132	1.000	.490
VAR00027	.311	.188	1.000	.605
VAR00028	.965	.615	1.000	.638
VAR00029	2.170	1.739	1.000	.801
VAR00030	4.916	4.714	1.000	.959
VAR00031	3.414	3.115	1.000	.912
VAR00032	3.544	3.233	1.000	.912
VAR00033	2.340	1.861	1.000	.795
VAR00034	3.755	3.252	1.000	.866
VAR00035	3.523	2.905	1.000	.824
VAR00036	1.738	1.275	1.000	.734
VAR00037	.559	.264	1.000	.473
VAR00038	3.063	2.768	1.000	.904
VAR00039	.304	.125	1.000	.409
VAR00040	4.512	4.354	1.000	.965
VAR00041	3.043	2.458	1.000	.808
VAR00042	3.666	3.323	1.000	.906
VAR00043	3.067	2.670	1.000	.870
VAR00044	3.275	2.649	1.000	.809

NOTE: Extraction Method: Principal Component Analysis.

TABLE 4: ROTATED COMPONENT MATRIX (a)

Variable	1	2	3	4	5	6	7	8	9	10	11
VAR00001	-0.388	-0.573	-0.128	-0.103	-0.503	-0.680	0.586	0.494	0.269	0.328	0.129
VAR00002	0.038	-0.480	-0.086	-0.191	-0.135	-1.778	-0.222	0.312	0.054	0.075	-0.024
VAR00003	0.080	0.100	0.349	0.019	-0.152	-0.465	0.381	0.070	0.051	0.003	0.074
VAR00004	0.287	0.114	-0.363	-0.530	-0.117	0.078	-0.036	0.331	-0.152	0.096	0.317
VAR00005	0.101	0.091	-0.250	-0.080	-0.104	-0.334	-0.047	0.061	-0.068	0.033	0.104
VAR00006	0.420	0.035	-0.164	-0.211	-0.155	0.173	-0.045	0.127	-0.113	-0.072	-0.084
VAR00007	0.563	-0.023	-0.036	-0.062	0.189	-0.151	0.184	0.024	-0.068	-0.288	0.164
VAR00008	0.940	-0.066	0.028	-0.345	0.134	0.076	0.644	-0.128	-0.070	-0.086	0.183
VAR00009	1.252	0.015	0.252	0.210	-0.116	0.209	0.247	-0.121	-0.238	0.051	-0.155
VAR00010	1.339	-0.103	-0.251	0.001	0.295	-0.508	-0.106	-0.172	0.096	0.034	0.093
VAR00011	0.959	-0.385	-0.210	-0.099	0.159	-0.205	-0.216	-0.139	-0.086	0.303	-0.076
VAR00012	0.246	-0.456	0.184	0.612	1.407	0.765	0.146	0.015	-0.032	0.431	0.058
VAR00013	-0.446	-0.038	0.092	0.776	1.146	0.179	0.115	0.066	0.506	0.030	0.110
VAR00014	0.012	0.064	-0.147	0.164	0.210	0.046	0.584	0.032	0.069	0.012	0.068
VAR00015	0.547	-0.051	-0.043	0.038	0.418	0.752	1.157	0.109	-0.330	0.112	-0.062
VAR00016	-0.381	-0.222	0.251	0.052	0.012	-0.367	0.190	0.175	2.018	-0.205	-0.009
VAR00017	0.039	-0.388	0.178	0.358	0.772	-0.201	1.317	0.030	0.368	-0.121	0.545
VAR00018	-0.863	0.543	-0.083	0.224	-0.138	0.009	0.571	-0.052	-0.212	0.509	0.353
VAR00019	0.306	-0.175	-0.073	-0.127	0.861	0.084	0.312	-0.115	-0.083	-0.075	-0.066
VAR00020	0.115	0.631	1.108	-0.187	0.377	-0.198	0.060	-0.267	0.237	-0.196	-0.061
VAR00021	-0.164	0.777	-0.121	0.347	0.189	-0.067	0.083	-0.021	-0.222	0.080	0.247
VAR00022	0.009	-0.041	-0.407	-0.202	0.088	-0.126	-0.028	0.142	-0.157	0.077	-0.098
VAR00023	-0.046	1.170	0.217	0.066	-0.242	0.081	-0.299	-0.063	0.133	0.045	-0.148
VAR00024	0.009	0.624	0.030	0.066	-0.044	0.430	0.044	-0.236	-0.040	0.161	0.077
VAR00025	-0.162	0.713	0.236	0.012	-0.105	0.290	0.165	-0.010	0.006	0.201	-0.047
VAR00026	0.145	-0.230	-0.134	-0.082	0.063	0.020	0.116	0.102	0.037	-0.042	-0.045
VAR00027	0.116	-0.231	-0.197	-0.111	0.019	-0.040	0.110	0.213	0.063	-0.071	0.045
VAR00028	0.081	-0.151	0.042	-0.532	-0.029	-0.004	0.006	0.363	-0.202	-0.322	-0.155
VAR00029	-0.064	-0.257	-0.349	-0.318	-0.308	-0.060	0.241	1.091	-0.252	0.153	0.103
VAR00030	-0.326	-0.317	0.867	-0.699	0.402	-0.373	-0.657	1.331	0.717	-0.435	-0.250
VAR00031	-0.691	-0.261	0.447	-0.004	0.512	-0.152	0.022	1.295	0.613	-0.059	0.165
VAR00032	0.002	0.126	1.595	0.087	0.061	0.006	-0.077	0.262	0.224	0.720	-0.133
VAR00033	0.911	-0.283	0.641	0.241	0.076	0.236	0.475	-0.036	-0.066	0.359	0.247
VAR00034	0.025	0.235	1.118	-0.357	1.143	-0.080	0.140	0.106	-0.409	0.019	0.554
VAR00035	0.302	0.202	0.659	0.100	1.402	-0.121	0.414	0.145	0.068	-0.043	0.386
VAR00036	-0.062	0.303	-0.179	0.104	-0.088	0.985	0.038	0.205	-0.204	0.230	0.140
VAR00037	0.079	-0.069	-0.433	-0.135	-0.133	0.029	0.104	-0.054	0.111	0.038	-0.033
VAR00038	-0.014	0.602	0.141	0.296	0.110	0.151	0.086	-0.027	-0.292	1.468	-0.120
VAR00039	-0.099	0.181	-0.072	-0.029	0.005	-0.018	-0.172	-0.055	0.167	-0.118	0.035
VAR00040	0.007	0.067	0.180	0.115	0.389	0.021	0.376	0.100	0.055	-0.121	1.996
VAR00041	0.068	0.009	0.619	1.272	0.303	0.244	-0.080	-0.048	0.478	0.252	0.019
VAR00042	-0.251	0.479	-0.106	1.515	0.174	0.504	0.298	-0.279	-0.518	0.067	0.050
VAR00043	0.060	0.716	0.183	1.270	-0.175	0.035	0.574	-0.070	-0.372	0.028	0.041
VAR00044	0.034	0.935	0.115	0.715	0.369	0.793	0.589	-0.144	-0.328	0.095	-0.039

## THE EXTRACTED FACTORS

By principle component matrix we get total eleven factors and all the 44 variables are categorized according to the level of correlation they show. All the eleven factors are listed below:

### Factor 1: Affiliations and Ranking (Variable)

1. University
2. Certified from National Board of Accreditation(NBA)
3. ISO Certification
4. Ranking given to the college
5. Golden History of the college
6. Reputation of the institute

### Factor 2: Job Orientation (Variable)

1. Placement Cell
2. Recruiters
3. Package offered by the recruiters
4. Training Program
5. Technical events
6. Opportunity to handle live project

### Factor 3: Financial factors (Variable)

1. fee structure
2. Loan facility
3. Scholarship & waiver scheme

### Factor 4: Teaching Philosophy (Variables)

1. City environment
2. Academic qualification of Faculty Members
3. Teacher student ratio

## Factor 5: Institutional Infrastructure (Variable)

1. Size of the building
2. Physical Facilities
3. Accessibility of all facilities
4. Canteen facilities

## Factor 6: Physical Facility (Variable)

1. Workshops & Laboratory
2. Library resource
3. Fast search facility in library
4. E-Library
5. Wi-Fi zone
6. Smart classroom equipped with modern pedagogy

## Factor 7: Environment (Variable)

1. College location
2. The city is attractive
3. The city having facility for further study

## Factor 8: Food &amp; Lodging (Variable)

1. Easy transportation facility (Connectivity with other area)
2. Accommodation
3. Safety

## Factor 9: Orientation &amp; Recognition (Variable)

1. Extracurricular activities organized by college
2. Technical events
3. Sponsorship to attend development program at university level
4. Stipend

## Factor 10: Social Measures (Variable)

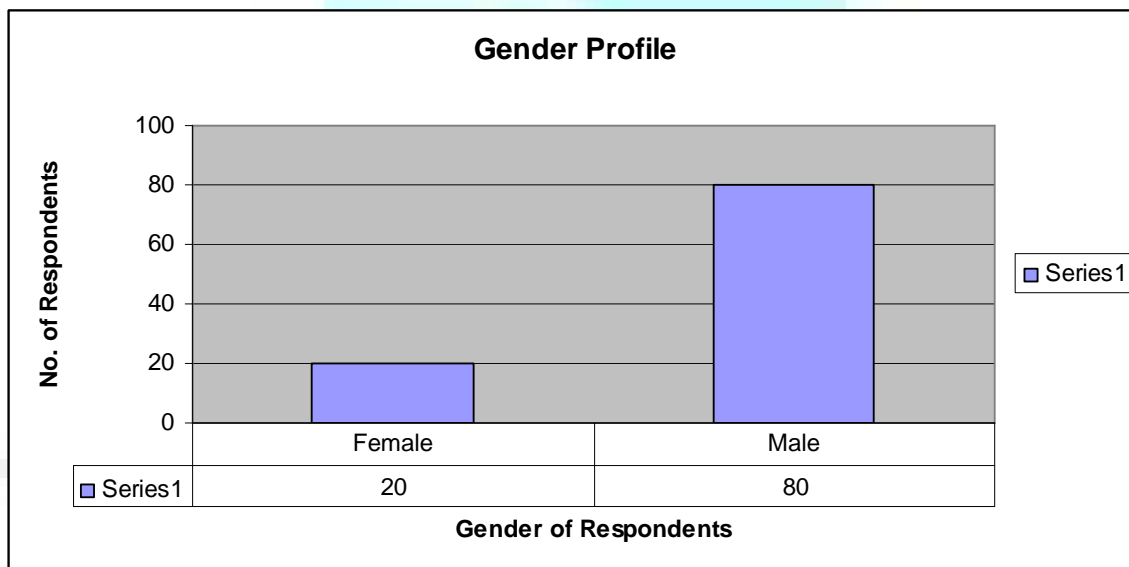
1. Existence of cultural activities
2. Existence of health care means
3. Transport facility

## Factor 11: Word of mouth and observation (Variable)

1. Opinion of friends and family
2. Coaching institutes
3. Self visit to college
4. Alumni opinion
5. Event & exhibition
6. Publicity

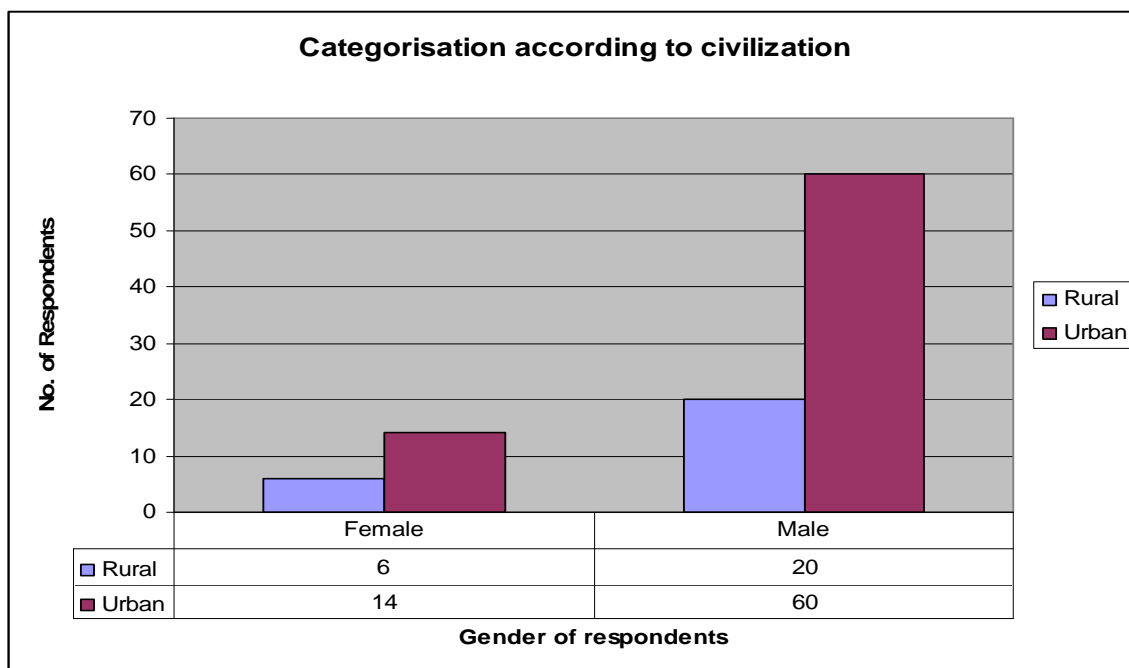
## RESULTS

FIGURE: 1



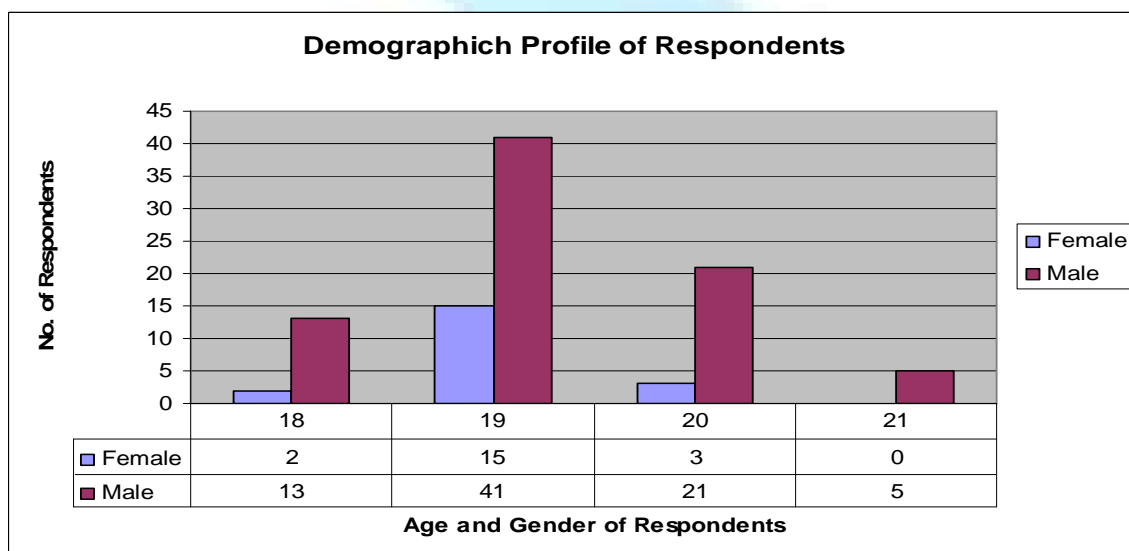
From the research point of view sample of 100 students was surveyed randomly. Out of which 20 respondents are females and 80 are males.

FIGURE: 2



From fig 2 it is concluded that out of 100 respondent 26 students belong to rural area Out of which 6 were females, remaining 74 students are from urban area. 14 respondent were female and 60 were male.

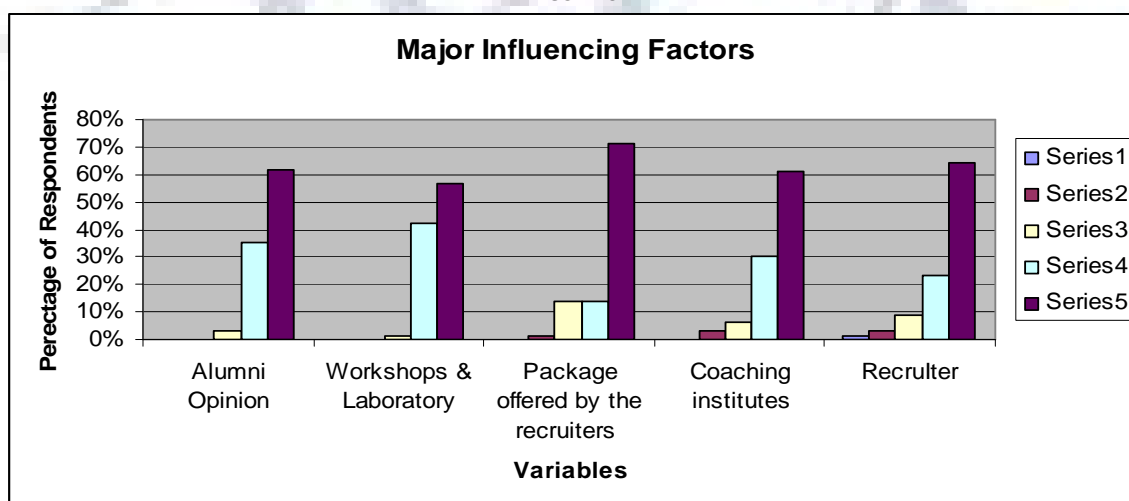
FIGURE: 3



From Fig: 1,2 & 3 it is clear that maximum respondents are male from urban area and are of 18 years, whereas least number of candidates are of 21 years. To make research comprehensive we try to trace the perception of both male and female of different civilization having different demographic characteristics.

#### INTERPRETATIONS

FIGURE: 3





It is observed that 71% of the students gave high weightage to the packages received by the passed out student of the particular institute through campus selection. At second order recruiters are considered important hence 64% student preferred it. Due to the increase number of engineering colleges in the Madhya Pradesh potential candidates relies on the advices received from the Alumni students rather than other sources of information. In our research 62% of the respondent gave emphasis on Alumni and 61% and gave emphasis to coaching institutes where as 57% respondent were of opinion that facilities of Workshop and laboratory is an important aspect while considering Engineering college.

On contrast least consideration is given to the certification of ISO. It is found that students are not aware of accreditations especially in rural area.

## FINDINGS

Through the research it has been found that there are few factors which are considered vital by the students while they evaluate any engineering institute. A total of 44 variables were included in the study, which were categorized into eleven factors. The research findings are as follows:

- The entire Variable under the factor Job orientation has been weighted highest.
- Sources of information for Students are: Alumni, Opinion of friends and family, coaching institute, events and exhibition. They also gather information by visiting institutes (very rare). Among all these variables students relies most on opinion of Alumni.
- Infrastructural facilities of the institute are the next concerned area besides above mentioned factors.

## LIMITATION

With the data collected being of multiple choice, data may have some limitations in terms of responses. The following points served as limitations to this study.

1. The sample size is small and it is limited to 100 students, and it does not represent the entire universe.
2. The sample is surveyed in Indore (MP) and nearby region.
3. Study focuses only those students who have appeared in MP-PET.

## CONCLUSION

Initially work started with 44 factors which were further categorized into eleven factors from the research it is concluded that in today's scenario where there is mushrooming of engineering institute's, an attempt has been made to rank the variable contributing in decision making of the students for selection of institute. Considering all the sources it has been found that there are three major sources of information: Alumni opinion, coaching institutes, event and exhibition. Facts collected from Alumni and job orientation is valued as a major factor. This research helps Engineering institutes to market their services and also to the psychologist to read the brains of future technical leaders.

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