ETHIRAJ COLLEGE FOR WOMEN (Autonomous)

Chennai – 600 008

Affiliated to the University of Madras
College with Potential for Excellence
Reaccredited with A Grade by NAAC

OBE MANUAL

(*Choice Based Credit System)

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DEFINITIONS

- ❖ Graduates Attributes (GAs) are the components indicative of the graduate's potential to acquire competence to practice at the appropriate level. GAs forms a set of individually assessable outcomes of the programme.
- ❖ Programme Educational Objectives (PEOs) describe the career and professional developments of graduates, which are to be assessed after 2 or 3 years of graduation.
- ❖ Programme Outcomes (POs) explain the Knowledge, Skills, and Attitude that the students are expected to attain upon graduation.
- Course Outcomes (COs) outline the course specifications to be acquired by students.
- ❖ Knowledge, Skills and Attitude (KSA) are the three types of behavior elements, also known as educational activities, that are selected from Bloom's taxonomy.

VISION & MISSION

VISION

MISSION

To holistically develop women, by imparting knowledge, value systems, technological competencies, and Global skill sets To harness their full potential to prepare them to be responsible citizens, compassionate leaders, agents of social change and participants in the National Development

OBE DESIGN

Vision & Mission

Programme Educational Objectives (PEO)

Programme Outcomes (P0)

Course Outcome 1 Course Outcome 2

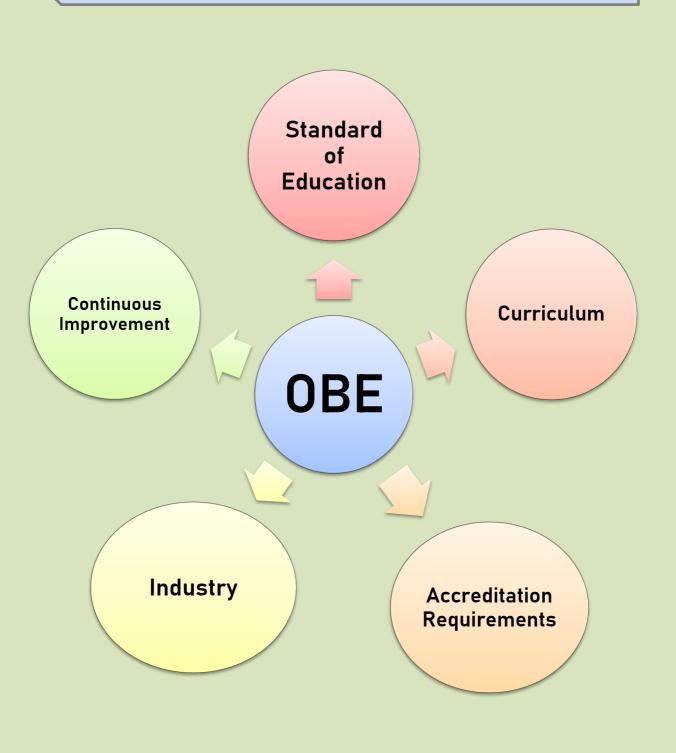
Course Outcome 3

OBE DEFINITION

Outcome-Based Education (OBE) is an educational approach that focuses on the graduate attributes or outcomes after completing an academic programme.

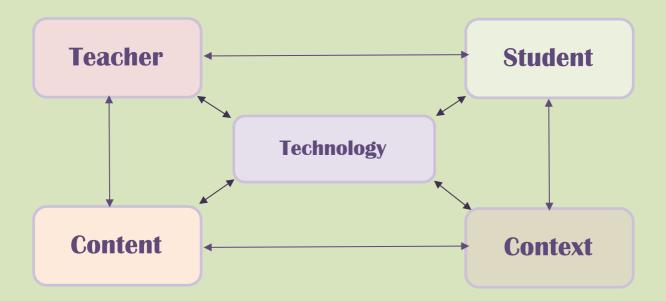
- ➤ An educational philosophy organized around several basic beliefs and principles.
- ➤ Organized from a focus on **exit level outcomes** and designed downwards to the unit levels.
- It focuses teaching & learning strategies on clearly defined learning outcomes getting high standards with high expectations for all students & includes expanded opportunities for enrichment and remediation.

OUTCOME BASED EDUCATION - CHART



Components of OBE

- Desired Outcomes
- Planning Courses
- Nurturing desired Outcomes
- Assessment
- Feedback for improvement



PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PEO are broad statements that describe the career and professional accomplishments that the programme is preparing graduates to achieve.

The Programme aims at producing Graduates who will be able to:

PEO1: Technical/Subject Proficiency:

Succeed in obtaining employment appropriate to their interests, education and will become productive and valued professional.

PEO2: Professional Growth-

Continue to develop professionally through life-longlearning, higher education, and other creative pursuits in their areas of expertise or interest.

PEO3: Management Skills:

Exercise leadership (management) qualities in a responsive, ethical, and innovative manner.

PROGRAMME OUTCOMES

At the end of the program the students will be able to:

PO 1: Scientific Knowledge:

Apply the knowledge of chemistry, physics, mathematics and computer science to the scientific issues and problems being faced in society/industry

PO 2: Problems Analysis:

Identify, formulate, research literature and analyze complex problems reaching substantiated conclusions using first principles of mathematics, natural sciences and physical sciences.

PO 3: Design/development of solutions:

Design solutions for complex problems and processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural, societal, and environmental considerations.

PO 4: Conduct investigations of complex problems

PO 5: Modern Tool Usage

PO 6: Link with society

PO 7: Environment and Sustainability

PO 8: Ethics

PO 9: Individual Teamwork

PO 10: Communication

PO 11: Project Management and Finance

PO 12: Life-long learning

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSOs are what the graduates of a specific UG/PG programme should be able to do at the time of graduation.

- * The PSOs are programme specific.
- * PSOs are written by the Department offering the programme.
- * PSOs should be two to six in number.
- * A Department can differentiate its programme through PSOs.

OBE OUTCOMES

Course Outcomes (CO):

CO are statements that describe what students are expected to know, attitudes they are expected to hold, and what they are able to do as a result of taking a course.

- ✓ Describe what students demonstrate upon the completion of course
- ✓ Students will be able to choose suitable X and Y for a given specification

Typically, 4-6 COs are identified/course COs are major domain specific outcomes written using action verbs which are specific, measurable and can be demonstrated by students on completion of the course. COs should aim to develop higher order skills in each domain of learning. Evaluation, Synthesis and Analysis are typical examples in cognitive Domain.

MAPPING WITH COS & PSOS

| CO | | PSO | |
|------|--|-----|--|
| CO 1 | | | |
| CO 2 | | | |
| CO 3 | | | |
| CO 4 | | | |
| CO 5 | | | |

S -Strongly correlated (3)

M -Moderately correlated (2)

L -Weakly correlated (1)

NC -No correlation (0)

ACCESS TO COURSES

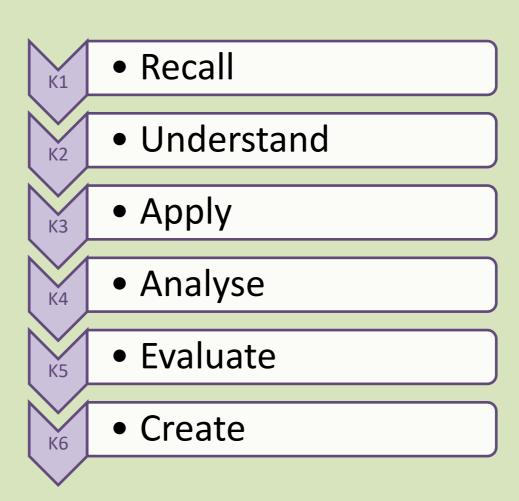
COURSE OUTCOME

PROGRAMME OUTCOMES

PROGRAMME EDUCATIONAL OBJECTIVES

BLOOMS TAXONOMY

Provides taxonomy of cognitive levels for learning objectives which was originally proposed by psychologist Benjamin Bloom in 1956 and it was revised in the year 2001 by Anderson and Krathwohl.



TEMPLATE FOR COURSE SYLLABUS

Course Code & Title :

Class :

Cognitive Level : K1

K2

K3

Course Objectives : The Course aims

CO & PO Attainment Rubrics

From Direct Assessment

CFA & ESE : 40 %

Assignments/ reports/ case studies/ records/ observations : 30 %

From Indirect Assessment

Exit Survey : 30 %

• Based on the cognitive level of the course percentage of marks for K1, K2 etc. to be fixed.

- Apart from the question, CO & K level also to be mentioned in the question paper.
- Apart from total marks scored by the individual the mark scored in CO1, CO2 etc. to be measured.
- Attainment mapping to be done for the individual as well as the class by the office through customized software.

For CFA (2 tests)

| Knowledge Level | Section | Marks |
|-----------------|------------------------|---------|
| K1 | Section A (Answer all) | 10×1=10 |
| K2 | Section B (Either or | 4×5=20 |
| | Pattern) | |
| K3 & K4 | Section C (Answer 2 | 2×10=20 |
| | out of 3) | |

For ESE

| Knowledge Level | Section | Marks |
|------------------------|----------------------|---------|
| K1 | Section A (Answer | 10×2=20 |
| K2 | Section B (Either or | 6×5=30 |
| | Pattern) | |
| K3 & K4 | Section C (Answer 5 | 5×10=50 |
| | out of 7) | |

CO Attainment Calculation

| CO Nos | Question Numbers | | | Marked Scored | | | | | | | |
|-------------|---------------------|---|---|------------------|---|---|---|---|---|----|--------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| CO 1 | | | | | | | 2 | | | | 2/5 = 0.4 |
| CO 2 | 3 | | 2 | | | | | 3 | | 3 | 11/20 = 0.65 |
| CO 3 | | 4 | | | | | | | | | 4/5 = 0.8 |
| CO 4 | | | | 5 | | | | | | | 5/5 = 1.0 |
| CO 5 | | | | | 3 | | | | 1 | | 4/10 = 0.4 |
| CO 6 | | | | | | 3 | | | | | 3/5 = 0.6 |

Template for the Preparation of OBE

Programme Educational Objectives

The PEOs of Ethiraj College for Women are:

➤ Undergraduate Programme

Programme Educational Objectives

On obtaining an undergraduate degree the students will be able to:

- **PEO 1:** Apply and advance the knowledge and skills acquired, to become a creative professional in their chosen field.
- **PEO 2:** Engage in self-directed continuous learning, aimed at global competency, which will promote professional and personal growth
- **PEO 3:** Develop management skills and entrepreneurial skills, by harnessing core competencies tempered by values and ethics
- **PEO 4:** Work towards achieving economic and social equity for women through application of relevant knowledge
- **PEO 5:** Contribute to promoting environmental sustainability and social inclusivity

> Postgraduate Programme

On obtaining a postgraduate degree the students will be able to:

- **PEO 1:** Display higher order thinking in the knowledge domain and demonstrate professional skills
- **PEO 2:** Contribute to the advancement and application of relevant knowledge by self-directed learning
- **PEO 3:** Extend and integrate knowledge and skills to design and develop novel products and explore innovative solutions to national and international goals of development.
- **PEO 4**: Exercise management skills and develop social interactions in a responsive, ethical, and constructive way to meet global standards of excellence in all spheres of activity.
- **PEO 5:** Strive for social and economic equity based on the need for gender parity and ecological sustainability.

> M.Phil. Research Programme

On obtaining a research degree the scholar will be able to:

- **PEO1** Demonstrate advanced domain knowledge competencies and display high order discerning and synthesizing capabilities to address local, regional and national concerns through innovative well researched solutions.
- **PEO2** Continue to serve the community of professionals and experts as both independent and team player with a strong grounding in ethics, inclusivity, gender parity and environmental sustainability.

OBE Outcomes

Course Outcomes (CO):

CO are statements that describe what students are expected to know, attitudes they are expected to hold, and what they can do as a result of taking a course

- ✓ Describe what students demonstrate upon the completion of course
- ✓ Students will be able to choose suitable X and Y for a given specification

Typically, 4-6 COs are identified/course COs are major domain specific outcomes written using action verbs which are specific, measurable and can be demonstrated by students on completion of the course. COs should aim to develop higher order skills in each domain of learning. Evaluation, Synthesis and Analysis are typical examples in cognitive Domain.

Course Objectives:

- ✓ Describe what a teacher needs to teach and what needs to be planned to teach
- ✓ Students will understand the concept of X and Y in respective domain

Guidelines for CO:

- ✓ Outcomes must measure something useful and meaningful.
- ✓ Outcomes must be consistent with programme goals, core curriculum outcomes and university mission.
- ✓ Outcomes must be measurable.
- ✓ Outcomes must be explicitly stated in terms of what students can do.
- ✓ There are no fixed rules for the number of learning outcomes but it will be better to restrict to 4-6.

Programme Profile

PROGRAMME PROFILE -B.A. NAME OF DISCIPLINE

| SE M | PART | COURSE CODE | TITLE OFTHE PAPER | CREDITS | HOURS/ WK | TOTAL HRS | C A | S E M | Total |
|---------|------|----------------|-------------------------|---------|--------------|--------------|--------|-------------|-------|
| I | I | | Foundation Tamil - I | 3 | | | 40 | 60 | 100 |

Total minimum credits for the programme must be given.

Include compulsory extension activity credits while showing minimum credits for UG programmes.

Give separate Programme Profiles for UG/PG/M.Phil.

EVALUATION PATTERN FOR CA

Evaluation pattern for Continuous Assessment-UG

Internal Valuation by Course Teacher/S

PART I, II AND III – Theory Papers

| Total | 40 marks |
|---|----------|
| Participatory Learning | 10 marks |
| Quiz/ Assignment/ Seminar / Field Visit | 10 marks |
| CA 2 (2 hours – 50 marks) | 10 marks |
| CA 1 (2 hours – 50 marks) | 10 marks |

PART IV-SKB/SOFT SKILLS

COMPONENT TIME MARKS

1.

2.

3.

CA QUESTION PAPER PATTERN - UG:

| Knowledge Level | Section | Word | Marks | Total |
|------------------------|---------------|-------|-------|-------|
| | | Limit | | |
| K 1 | A-6X2 marks | 50 | 12 | |
| K1. K 2 | B-3/5x6 marks | 200 | 18 | 50 |
| K2, K3 | C-1/2x20 | 500 | 20 | |
| | marks | | | |

CA QUESTION PAPER PATTERN - PART IV:

| KnowledgeLevel | Section | Word Limit | Marks | Total |
|----------------|---------|---------------|-------|-------|
| K 1, K2 | A-5X10 | 350 | 50 | 50 |

Evaluation pattern for Continuous Assessment-PG

Internal Valuation by Course Teacher/S

CA 1 (2 hours – 50 marks) 10 marks

CA 2 (2 hours – 50 marks) 10 marks

Quiz/ Assignment/ Seminar / Field Visit 10 marks

Participatory Learning 10 marks

Total 40 marks

CORE/ ELECTIVE - PRACTICAL PAPERS:

COMPONENT MARKS

1.

2.

3.

PROJECT:

COMPONENT MARKS

1.

2.

3.

SOFT SKILL PAPERS:

COMPONENT TIME MARKS

1.

2.

3.

CA QUESTION PAPER PATTERN-PG

| Knowledge Level | Section | Word | Marks | Total |
|------------------------|---------------|-------|-------|-------|
| | | Limit | | |
| K 4 | A-2/4X5 marks | 500 | 10 | |
| K4. K 5 | B-2/3x20 | 1200 | 40 | 50 |
| | marks | | | |

RUBRICS FOR CA EVALUATION

| Assignment | Content/originality/Presentation/Schematic Representation |
|------------------|---|
| | and Diagram/Bibliography |
| Seminar | Organisation/Subject Knowledge/VisualAids/Confidence |
| | level/presentation-Communication and Language |
| Field Visit | Participation/Preparation/Attitude/Leadership |
| Participation | Answering Questions/ Clearing Doubts / |
| | Participating in Group Discussions/Regular |
| | Attendance |
| Case Study | Finding the Problem/Analysis/Solution/Justification |
| Problem Solving | Understanding Concepts/Formula and Variable |
| | Identification/ Logical Sequence/Answer |
| Group Discussion | Preparation/Situation Analysis/Relationship Management |
| | /Information Exchange/Delivery Skills |
| Flipped/Blended | Preparation/Information Exchange/ Group interaction |
| Learning | /Clearing doubts |

- First four rubrics should be included.
- * Others are optional based on Teaching-Learning Methodology Adopted for The Programme of Study

EVALUATION PATTERN FOR END SEMESTER

UG-THEORY PAPERS

PART I/II/III (Choose what is offered by the Department)

SEMSTER I/II/III/IV/V/VI

Double Valuation by Course Teacher and External Examiner

Maximum Marks: 100 To be Converted To 60

PASSING MARK: 40

PART IV

SINGLE VALUATION

ORAL TEST/WRITTEN TEST

MAXIMUM MARKS: 50

PASSING MARK: 25

UG-PRACTICAL PAPERS

PART III

SEMSTER I/II/III/IV/V/VI

DOUBLE VALUATION BY COURSE TEACHER AND EXTERNAL

EXAMINER

MAXIMUM MARKS: 100

PASSING MARKS: 40

PG-THEORY PAPERS

SEMSTER I/II/III/IV

Double Valuation by Course Teacher and External Examiner

MAXIMUM MARKS: 100 TO BE CONVERTED TO 60

PASSING MARKS: 50

PG-PRACTICAL PAPERS

SEMSTER I/II/III/IV

Double Valuation by Course Teacher and External Examiner

MAXIMUM MARKS: 100 TO BE CONVERTED TO 60

PASSING MARK: 50

SOFT SKILLS PAPERS

SEMESTER I/II/III/IV

Single Valuation by Course Teacher

MAXIMUM MARKS:

PASSING MARKS:

EVALUATION PATTERN FOR PROJECT

| Double Valuation by Research Supervisor and External Examiner |
|---|
| DISSERTATION: |
| VIVA: |
| MAXIMUM MARKS: |
| PASSING MARKS: |
| |
| INTERNSHIP: |
| YEAR: |

SEMESTER:

SEMESTER:

END SEMESTER EVALUATION PATTERN- M. Phil.

SEMESTER – I COUSE PROFILE – PROGRAMME OF STUDY

| Part | Core/ Allied/ Elective | Course Title | Course Code | L | Т | P | Н | C | CA | SE | M M |
|--------------|------------------------------|-----------------------------|-------------|---|---|---|---|---|----|----|--------|
| SEMESTER - I | | | | | | | | | | | |
| I | Language | Tamil/Hindi/French/Sanskrit | | | | | | 3 | 40 | 60 | 100 |

COUSE TEMPLATE

SEMESTER – I

| COURSE CODE | : | CREDITS | |
|----------------|---|----------------|--|
| TEACHING HOURS | : | LTP | |

COURSE OBJECTIVES:

A Minimum of 3 for UG A Minimum of 5 for PG

COURSE OUTLINE:

| UNIT - I | 15 Hrs |
|------------|--------|
| | |
| | |
| UNIT – II | 15 Hrs |
| | |
| | |
| UNIT – III | 15 Hrs |
| | |
| | |
| UNIT – IV | 15 Hrs |
| | |
| | |
| UNIT - V | 15 Hrs |
| | |

RECOMMENDED TEXTBOOKS:

Minimum two

REFERENCE BOOKS:

Minimum five

Recent editions can be given preference

Complete bibliographical data must be given

JOURNALS:

Minimum two

One International and One Indian

E-LEARNING RESOURCES:

Minimum **five** links must be provided-one for each unit. While doing so please ensure that the links are:

- -directly relevant to the units
- -contain complete URLs as far as possible
- -avoid generic web ids such as www.wikepedia.com, http://nptel.ac.in,

http://ebscohost.com

COURSE OUTCOME

| CO Number | CO Statement |
|-----------|--------------|
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |

COURSE MAPPING

| CO/PSO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PSO6 |
|---------|------|------|------|------|------|------|
| CO1 | | | | | | |
| CO2 | | | | | | |
| CO3 | | | | | | |
| CO4 | | | | | | |
| CO5 | | | | | | |
| AVERAGE | | | | | | |

Key: Strongly Corelated-3 Moderately Corelated-2 Weakly Corelated-1 No Corelation-0

TEACHING METHODOLOGY:

 Lecture (Chalk and Talk-OHP-LCD) - Flipped Learning/Blended Classroom-E Content, Videos- Problem Solving-Group Discussion-Role Modelling - Quiz-Seminar- Peer Learning-Field Visits- Self-Study Papers

Any of the Methodologies Mentioned can be Used or Other Innovative Methodologies Can Be Approved by the BOS.

QUESTION PAPER PATTERN-UG*

| Knowledge Level | Section | Word Limit | Marks | Total | Special Instructions if any |
|--------------------|---------------|---------------|-------|-------|-----------------------------------|
| K 1 | A-10X2 marks | 50 | 20 | | Question |
| K1, K 2 | B-5/8x8 marks | 200 | 40 | 100 | No is |
| K2, K3 | C-2/3x20 | 500 | 40 | | compulsory |
| | marks | | | | Section |
| | | | | | B/C-must be |
| | | | | | have 2 |
| | | | | | theory and |
| | | | | | 3problems |

QUESTION PAPER PATTERN-PG*

| Knowledge Level | Section | Word Limit | Marks | Total | Special Instructionsif any |
|--------------------|----------------------------------|---------------|-------|-------|--|
| K 3 K4, K5 | A-5X8 marks B-3/5x20 marks | 500 1500 | 60 | 100 | Question No is compulsory Section B/C-must be have 2 theory and 3problems |

QUESTION PAPER PATTERN M.Phil.

K Level 5-6

*Question Paper pattern given above is common to the college but maybe slightly modified to suit the discipline in case the BoS so recommends. Any deviation from the norm may be recorded in the minutes of the BoS

INSTRUCTIONS

STYLE:

FONT: TIMES NEW ROMAN

HEADINGS: 14 BOLD

CONTENT: 12

As the Revised Bloom's Taxonomy is being used for teaching learning and evaluation under the Outcome Based Education to improve the skills of students, all syllabi must be framed keeping this objective in mind.

Course objectives may be framed keeping the teaching in mind

Course outcomes may be framed keeping the student in mind

Suggested Verbs to be included in Outcome Statements:

| Compile | Select | Discuss | Outline |
|----------|-------------|-------------|-----------|
| Identify | Utilize | Explain | Evaluate |
| Create | Apply | Predict | Formulate |
| Plan | Demonstrate | Assess | Revise |
| Prepare | Compare | Select | Analyse |
| Use | Rate | Communicate | Design |
| Compute | Critique | | |

All outcomes should be observable and measurable.

BoS has to decide the percentage of questions to be asked for each cognitive level

K levels to be mentioned for each question in the QP pattern

All question papers can be framed in the following cognitive levels

Knowledge Level 1: Recall

Knowledge Level 2: Understanding

Knowledge Level 3: Application

Knowledge Level 4: Analysis

Knowledge Level 5: Evaluation

Knowledge Level 6: Creation

- UG syllabi and question paper pattern can be oriented towards teaching/learning and testing K1 level to K3
- PG syllabi and question paper pattern can be oriented towards teaching/learning and testing K4 level to K5
- In case the BoS recommends that the cognitive levels for any PG question paper can include K1 to K3 questions also it must be clearly mentioned in the Question Paper pattern attached to each course and must be recorded in the minutes of the BoS.
- Project papers and Research programme papers can be orientedtowards K6 levels

KEYWORDS FOR QUESTION PAPERS BASED ON KNOWLEDGE LEVELS

KNOWLEDGE LEVEL 1-REMEMBERING/RECALLING

Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers

| Who | What | Why | When | Omit |
|--------|----------|--------|-------|--------|
| Where | Which | Choose | Find | How |
| Define | Label | Show | Spell | List |
| Match | Name | Relate | Tell | Recall |
| Select | Describe | | | |

KNOWLEDGE LEVEL 2- UNDERSTANDING

Demonstrate understanding of facts and ideas by organising, comparing, translating, interpreting, giving descriptions and stating main ideas

| Compare | Contrast | Demonstrate | Interpret | Explain |
|----------|------------|-------------|-----------|----------|
| Extent | Illustrate | Infer | Outline | Relate |
| Rephrase | Translate | Summarise | Show | Classify |
| Describe | Discuss | | | |
| | | | | |

KNOWLEDGE LEVEL 3-APPLYING

Solve problems to new situations by applying acquired knowledge, facts, techniques, and rules differently

| Apply | Build | Choose | Construct | Develop |
|-------------|-----------|------------|-------------|----------|
| Experiment | Identify | Interview | Make use of | Model |
| with | | | | |
| Organise | Plan | Select | Solve | Utilise |
| List | Use | Compute | Simplify | Survey |
| Demonstrate | Dramatise | Illustrate | interpret | Sketch |
| Write | Show | Manipulate | Relate | Schedule |

KNOWLEDGE LEVEL 4- ANALYZING:

Examine and break information into parts by identifying motives or causes. Make inferences and find evidence to support generalizations.

| Analyse | Assume | Categorize | Classify | Compare |
|--------------|----------|--------------|-------------|----------|
| Conclude | Contrast | Divide | Examine | Function |
| Infer | Discover | Dissect | Distinguish | Inspect |
| List | Motive | Relationship | Simplify | Survey |
| Take part in | Test for | Identify | | |
| | | theme | | |

KNOWLEDGE LEVEL 5-EVALUATING

Present and defend opinions by making judgements about information, validity of ideas or quality of work based on a set of criteria.

KNOWLEDGE LEVEL 6-CREATING

Compile information together in a different way by combining elements in anew pattern or proposing alternate solutions

| Adapt | Change | Choose | Compile | Compose |
|-----------|----------|-----------|---------|-----------|
| Construct | Create | Design | Develop | Discuss |
| Elaborate | Estimate | Formulate | Imagine | Improve |
| Invent | Minimise | Maximise | Modify | Originate |
| Predict | Propose | Solve | Test | Theory |
| | _ | | | _ |

This list is only suggestive and not exhaustive.

| Agree | Appraise | Assess | Award | Choose |
|------------|-----------|------------|-----------|-----------|
| Compare | Conclude | Criteria | Decide | Deduct |
| Defend | Determine | Disapprove | Dispute | Estimate |
| Evaluate | Explain | Importance | Influence | Interpret |
| Judge | Justify | Measure | Opinion | Perceive |
| Prioritize | Prove | Rate | Recommend | Select |
| Support | Value | | | |



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