



RAJAGIRI VISWAJYOTHI
COLLEGE OF ARTS AND APPLIED SCIENCES
VENGOOR , PERUMBAVOOR KERALA- 683546

An ISO 9001 : 2015 Certified Institution

Affiliated to Mahatma Gandhi University, Kottayam | Approved by AICTE



CRITERION 6 - GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.5 Internal Quality Assurance System

2019-2024

Submitted to



6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and process.

OBE- Implementation

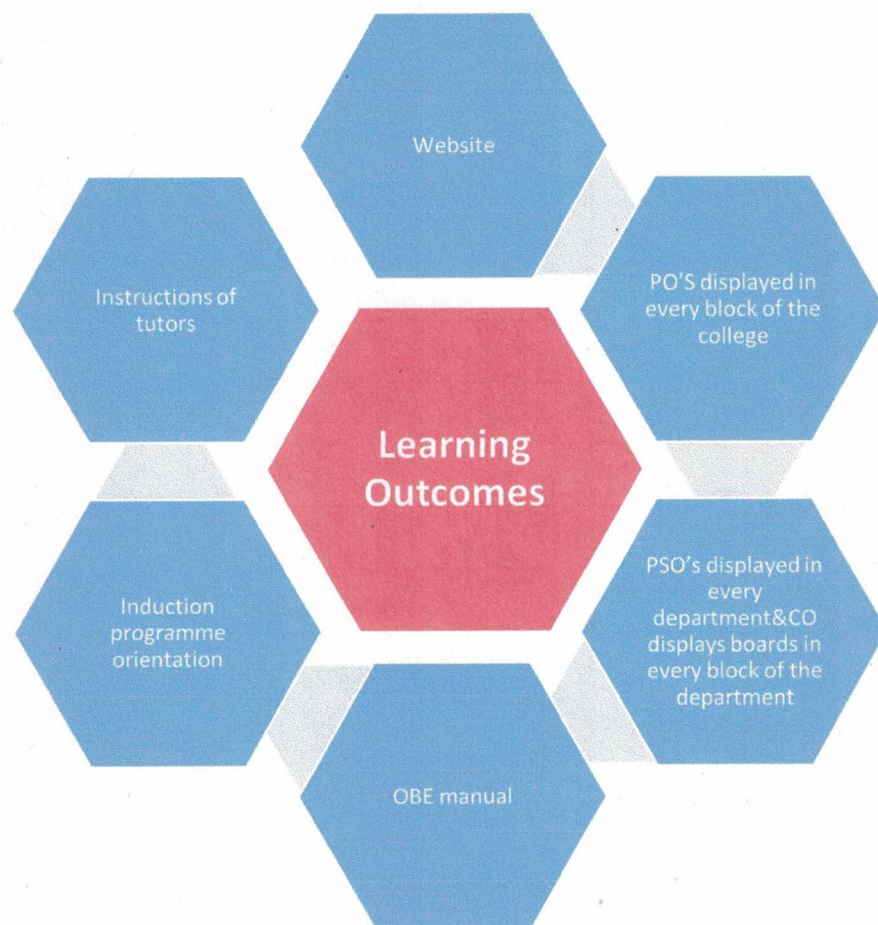
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Diverse Pathways for Communicating Learning Outcomes to Student

The learning outcomes are communicated to students through various channels as follows:

- Induction Programme orientation sessions
- Website
- Obe manual
- Instructions of tutors in class
- PO display boards in every block of the college
- PSO display boards in every department
- CO displays in each department notice board

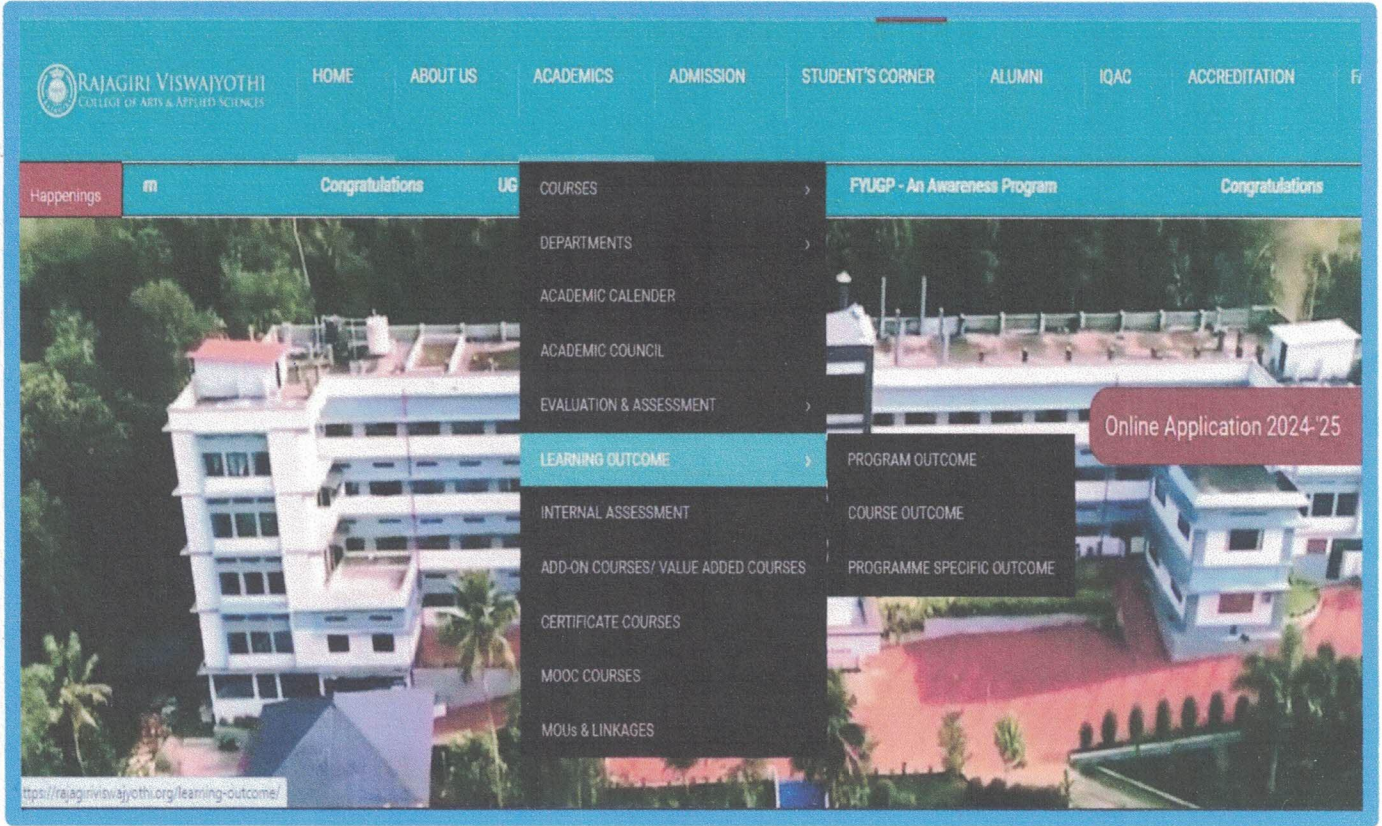


Diverse Pathways for Communicating Learning Outcomes to Student



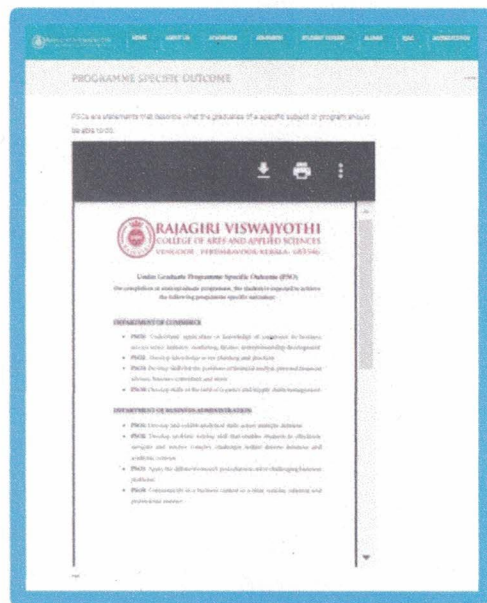
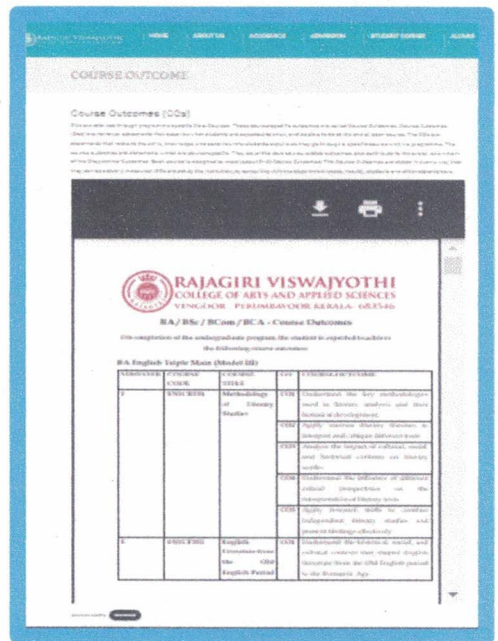
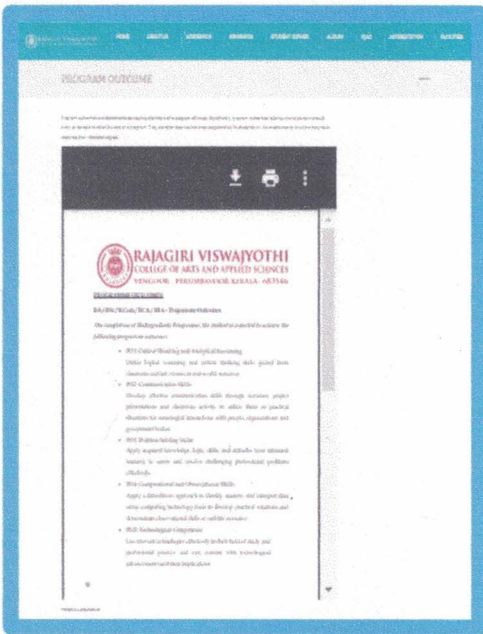


POs, PSOs, COs published in college website

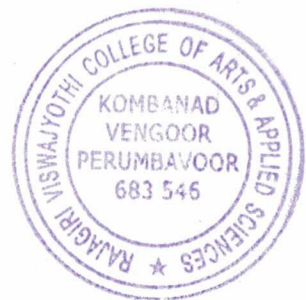


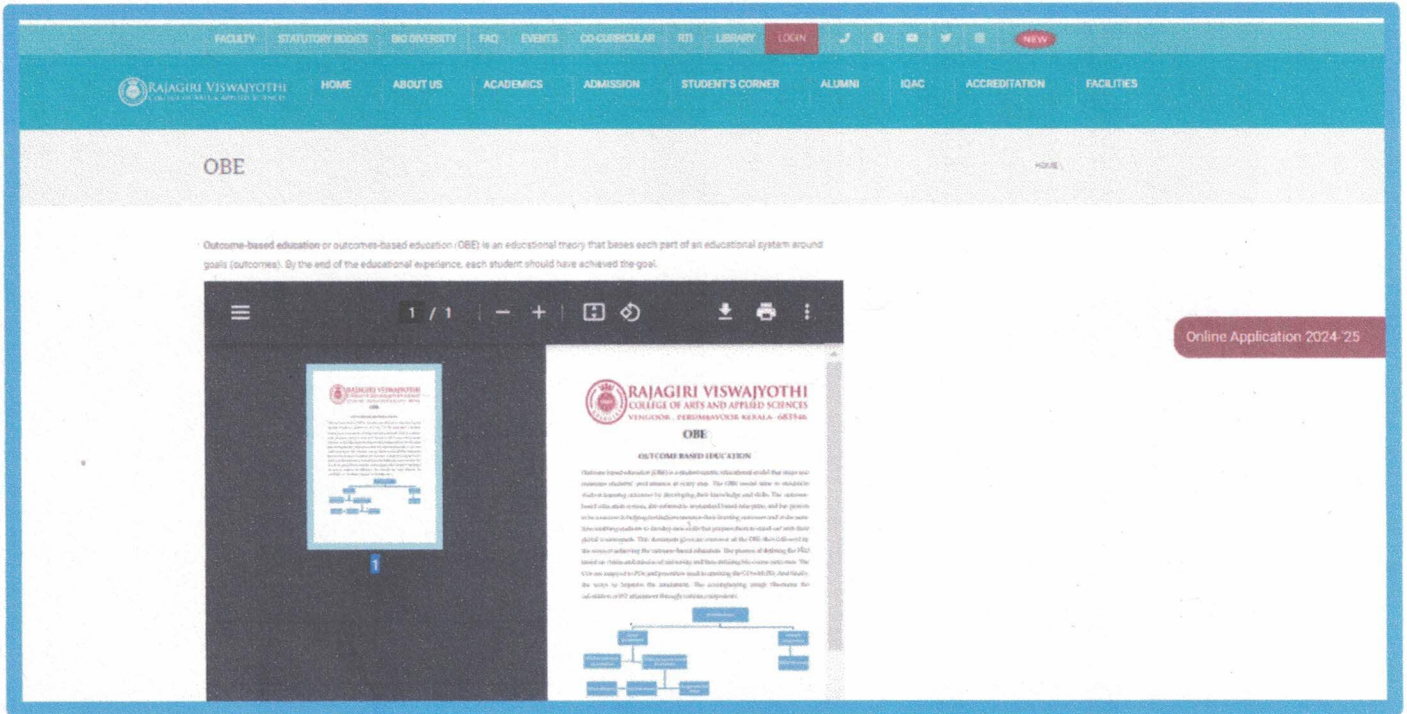
POs, PSOs, COs published in RVCAS website



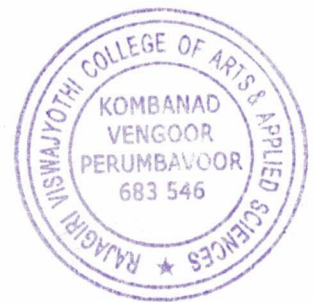


POs, PSOs, COs published in RVCAS website



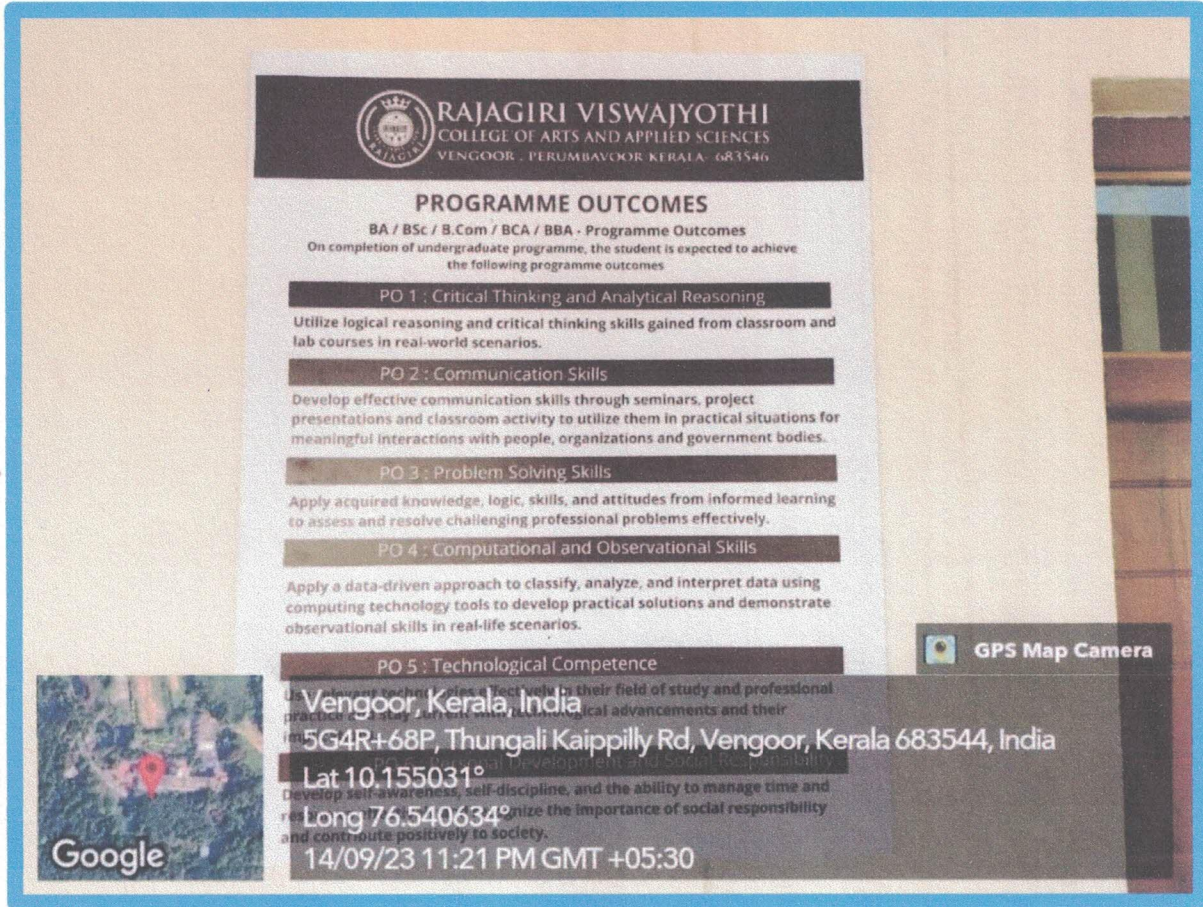


OBE in college website





PO display board in every block of the College - Specimen copy



PO display board





PSO display board in every department – Specimen copy

RAJAGIRI VISWAJYOTHI
COLLEGE OF ARTS AND APPLIED SCIENCES
VENGOOR, PERUMBAAVOOR KERALA - 683546

PROGRAMME SPECIFIC OUTCOMES
DEPARTMENT OF BUSINESS ADMINISTRATION
At the completion of BBA programme ,the student will be able to

PSO 1
Develop and exhibit analytical skills across multiple domains.

PSO 2
Develop problem-solving skill that enables students to effectively navigate and resolve complex challenges within diverse business and academic contexts.

PSO 3
Apply the different research procedures to solve challenging business problems.

PSO 4
Communicate in a business context in a clear, concise, coherent and professional manner.

GPS Map Camera

Vengoor, Kerala, India
5G4R+68P, Thungali Kaippilly Rd, Vengoor, Kerala 683544, India
Lat 10.155039°
Long 76.540787°
14/09/23 11:26 PM GMT +05:30

Google

PSO display board



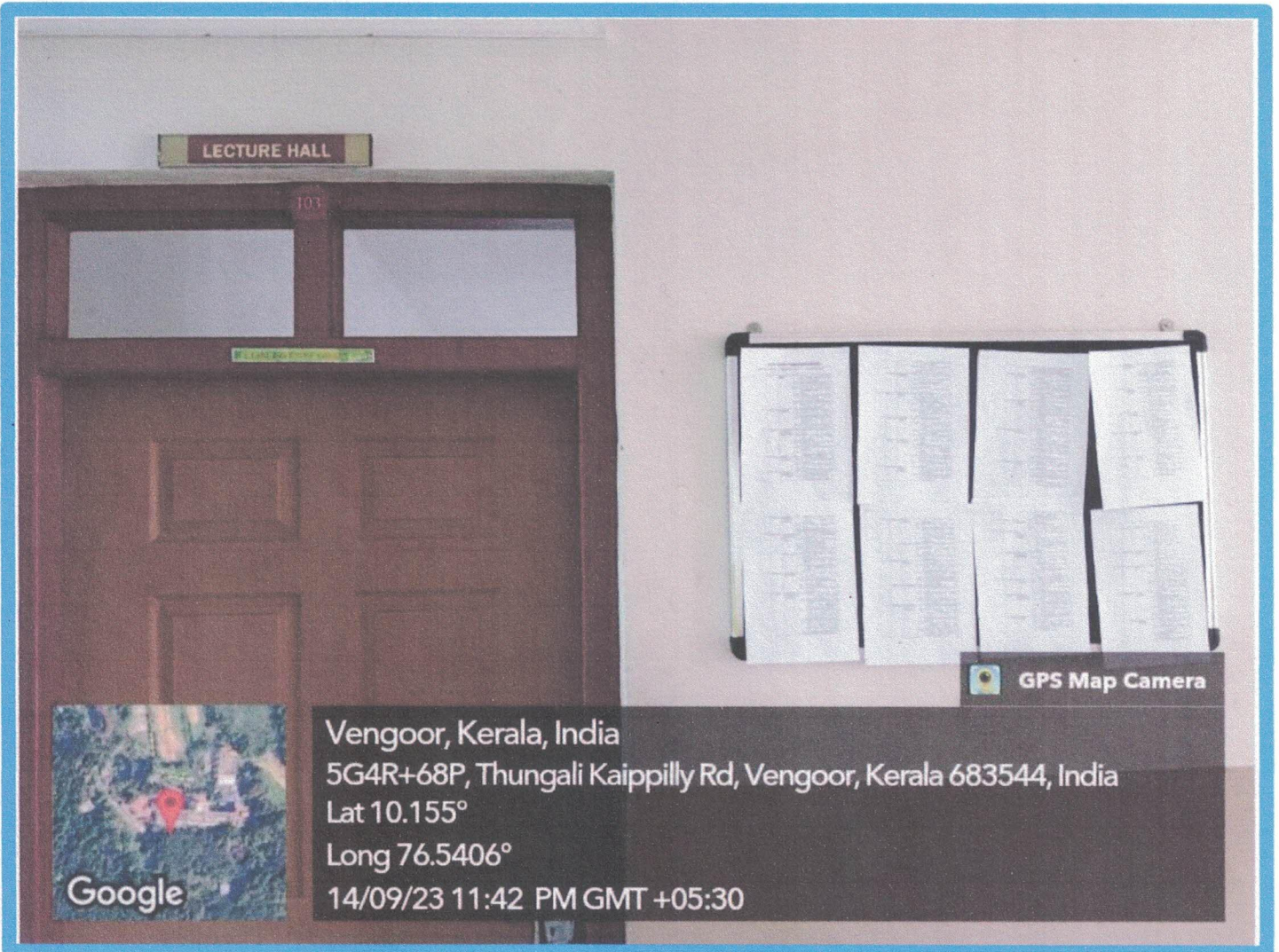


PSO display board





COs displayed on department notice board – Specimen

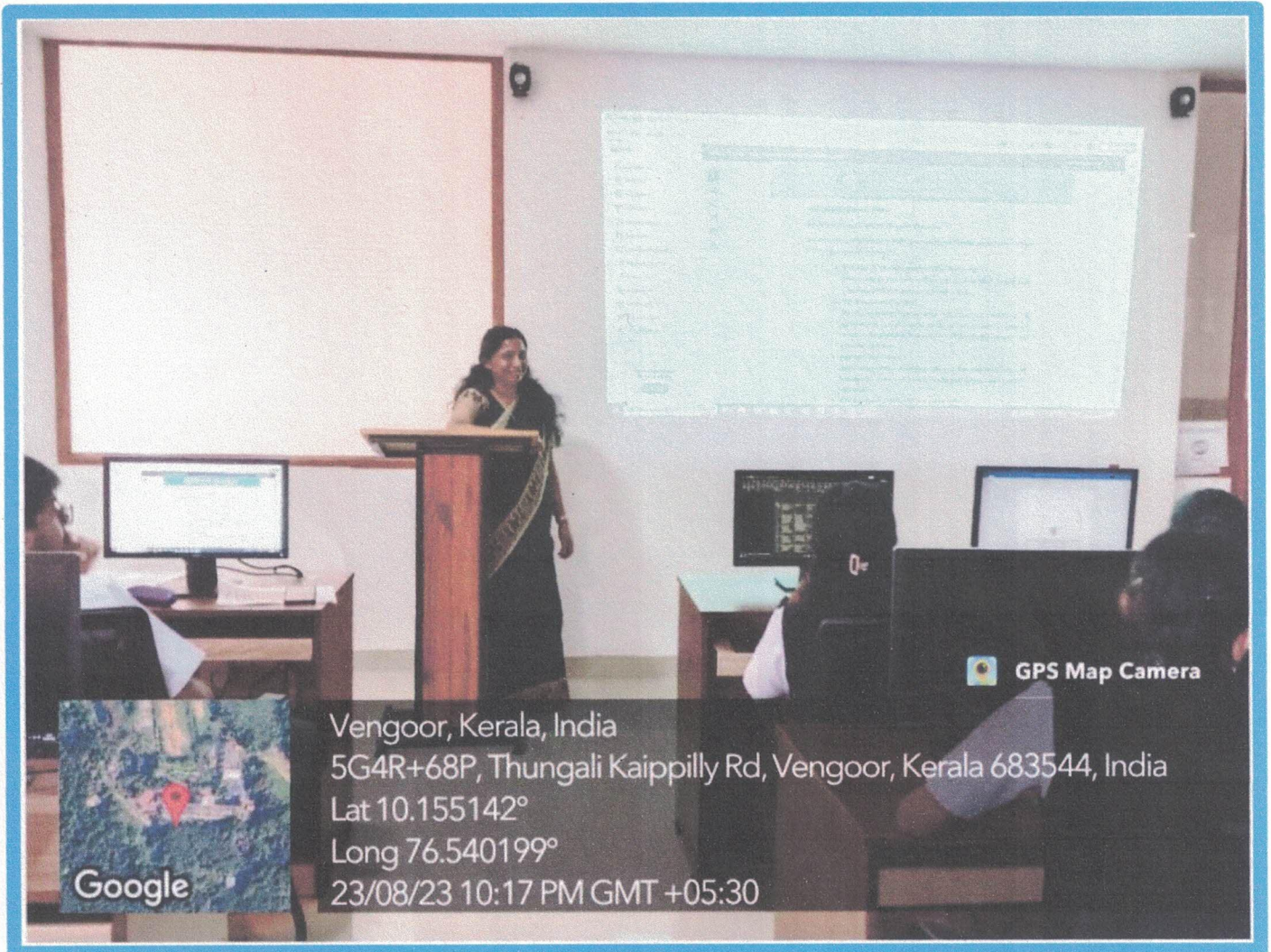


COs displayed on notice board

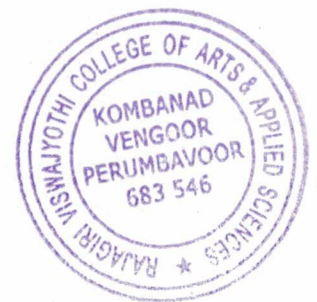




Familiarization of PO, PSO, COs to students

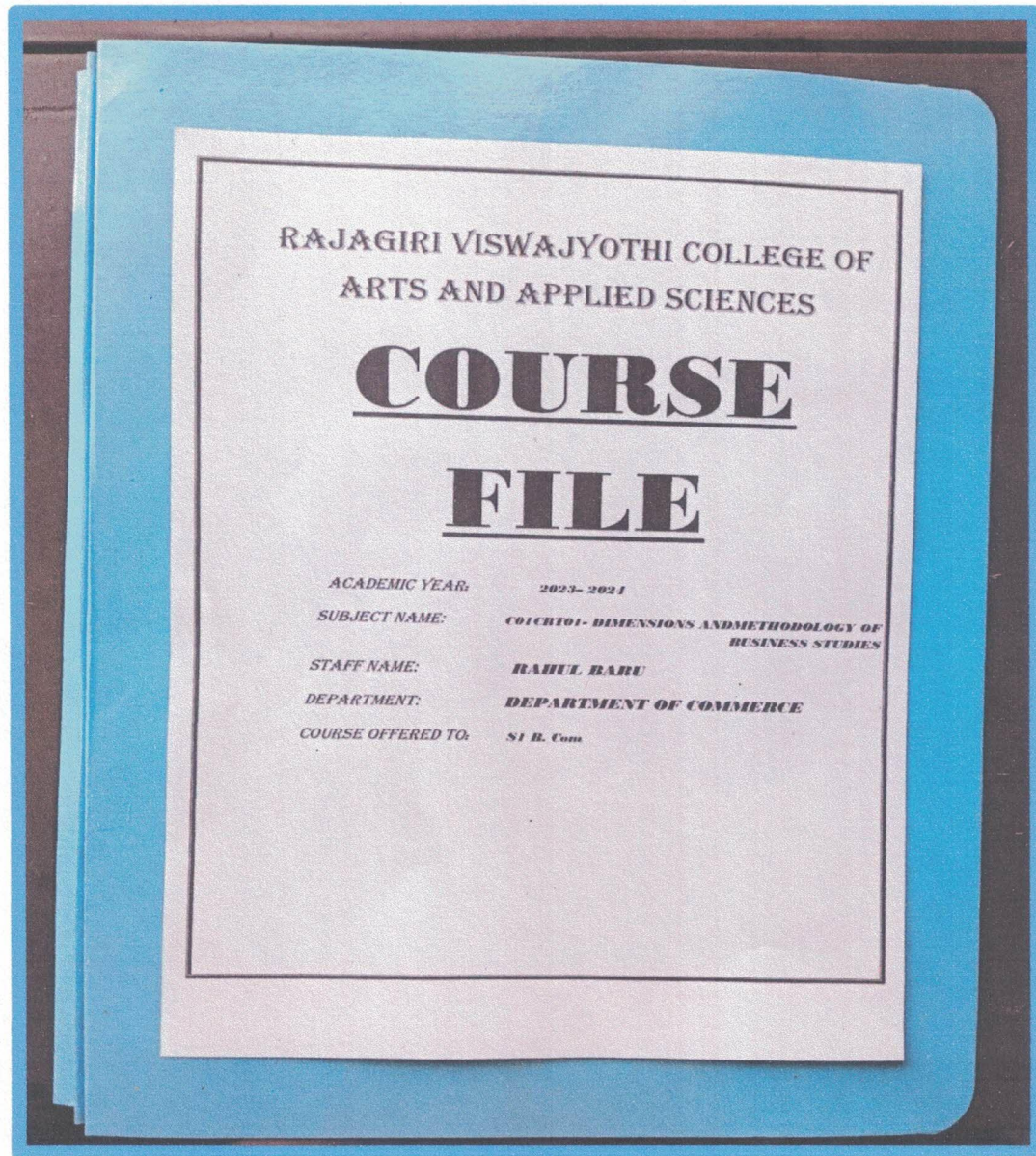


Familiarization of PO, PSO, COs to students



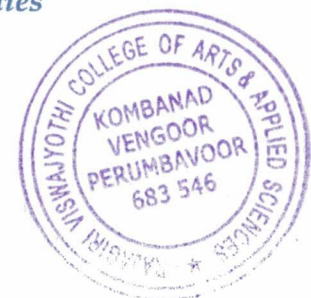


Course file- Specimen copy



Course file specimen copy-

Dimensions and methodology of business studies





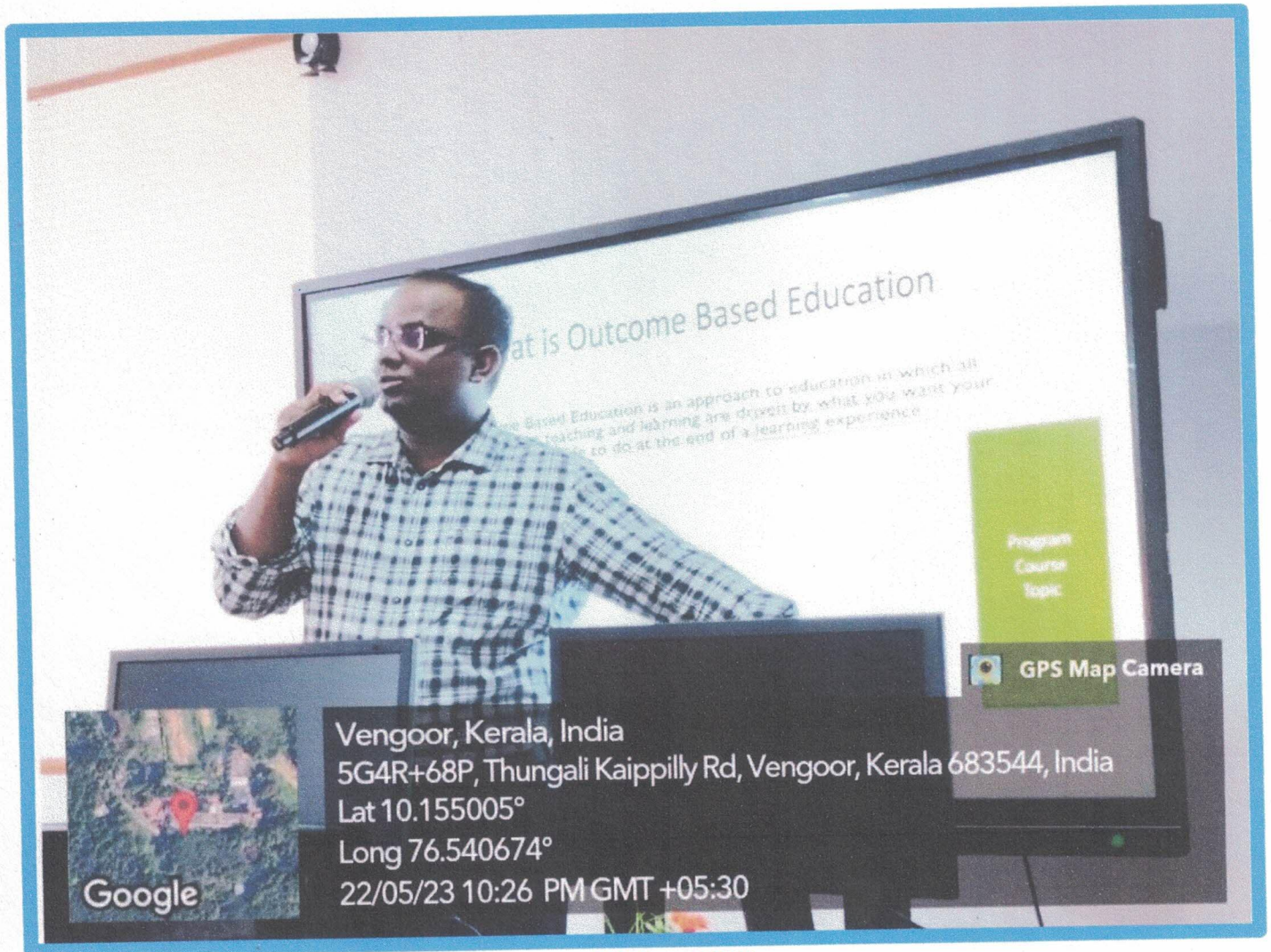
RAJAGIRI COLLEGE OF ARTS AND APPLIED SCIENCES
COURSE FILE INDEX

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| | 4.2 | College Calendar |
| | 4.3 | Department Calendar |
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Workshops and training on OBE conducted for Teachers



FDP on OBE





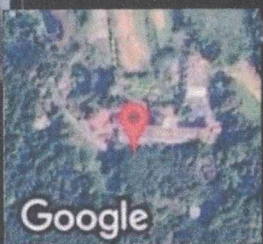
RAJAGIRI VISWAJYOTHI

COLLEGE OF ARTS & APPLIED SCIENCES

Vengoor, Perumbavoor, Kerala - 683546



GPS Map Camera



Vengoor, Kerala, India
5G4R+68P, Thungali Kaippilly Rd, Vengoor, Kerala 683544, India
Lat 10.155142°
Long 76.540199°
22/05/23 10:34 PM GMT +05:30

FDP on OBE





RAJAGIRI VISWAJYOTHI

COLLEGE OF ARTS & APPLIED SCIENCES

Vengoor, Perumbavoor, Kerala - 683546



FDP on OBE





FDP Certificate





St. Albert's College (Autonomous), Ernakulam
An initiative of Archdiocese of Verapoly
Affiliated to Mahatma Gandhi University, Kottayam



The Kerala State Higher Education Council
കേരളം സംസ്ഥാനം ഉന്നതവിദ്യാഭ്യാസം കൗൺസിൽ

Certificate

This is to certify that

Rengini D, Assistant Professor Dept. of Computer Applications, Rajagiri Viswajyothi College of Arts and Applied Sciences

has participated in the **7 Day National level Online Faculty Development Program**

on **Outcome Based Education and Essential AI Tools for Teachers,**

organised by **The Internal Quality Assurance Cell (IQAC)**

and **The Department of Computer Science, St. Albert's College (Autonomous), Ernakulam,**

in association with **The Kerala State Higher Education Council (KSHEC)**

from **02 November 2023 to 09 November 2023**

and has successfully completed all the tasks, assignments and assessments and secured an **A grade.**

Dr. Bijoy V M

Principal

St. Albert's College (Autonomous), Ernakulam

Certificate ID: nPTmszGln

Dr. Krishnakumar K S

IQAC coordinator

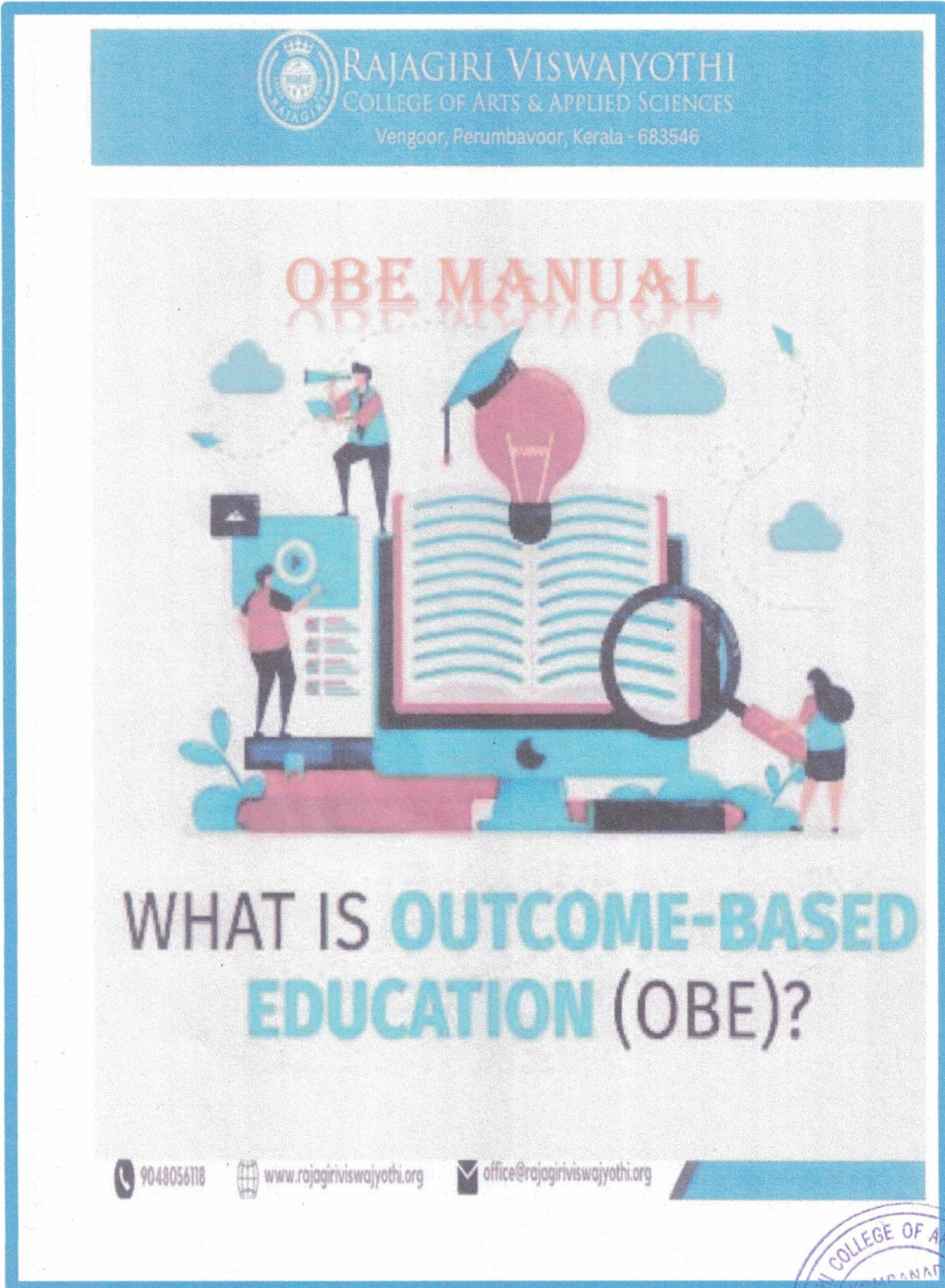
St. Albert's College (Autonomous), Ernakulam

FDP Certificate

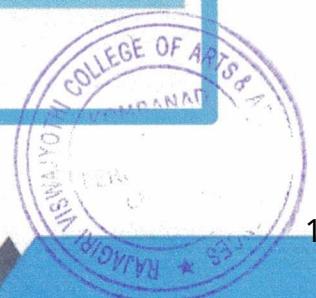




OBE Manual



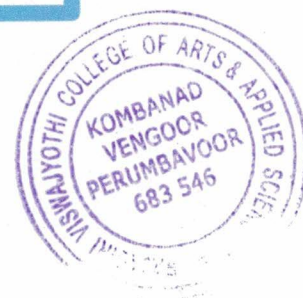
OBE Manual of RVCAS





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| 3 | Key features of OBE | 3 |
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Contents - OBE Manual





RAJAGIRI VISWAJYOTHI
COLLEGE OF ARTS AND APPLIED SCIENCES
VENGOOR, PERUMBAVOOR KERALA- 683546

OUTCOME-BASED EDUCATION MANUAL

Introduction

Outcome-Based Education (OBE) is an educational paradigm that brings clarity to the learning process by articulating specific and measurable learning outcomes, providing educators and students with a clear understanding of what is expected. Outcome-Based Education (OBE) is a student-centric teaching and learning methodology in which the course delivery, assessment are planned to achieve stated objectives and outcomes. It focuses on measuring student performance i.e. outcomes at different levels. By aligning educational objectives with real world skills and competencies, OBE ensures that students acquire practical knowledge that is relevant to their future careers.

OBE places a strong emphasis on continuous assessment and feedback, allowing for the measurement of progress towards achieving the specified learning outcomes. This ongoing assessment not only provides valuable insights into individual student performance but also allows for timely intervention and adjustments in teaching strategies. The flexibility inherent in OBE accommodates diverse learning styles and paces, acknowledging the individuality of students and promoting a more personalized learning experience.

Furthermore, OBE establishes a framework for quality assurance within educational institutions. By defining clear outcomes, institutions can assess the effectiveness of their programs and make informed decisions to enhance the overall quality of education. This accountability extends to educators who are held responsible for guiding students towards the achievement of specific learning objectives. Additionally, OBE cultivates a mindset of lifelong learning by not only imparting content knowledge but also fostering critical thinking, problem-solving, and other transferable skills.



OBE Manual





OBE question paper stating COs - Specimen copy



RAJAGIRI VISWAJYOTHI COLLEGE OF ARTS AND APPLIED SCIENCES

Vengoor, Perumbavoor
DEPARTMENT OF COMMERCE
FIRST SERIES EXAMINATION 2023-2024 (FIRST SEMESTER)
COICRT01- DIMENSIONS AND METHODOLOGY OF BUSINESS STUDIES

Faculty Name: Rahul Babu
Date: 19-09-2023

Year & semester: I & S1
Max. Marks: 30

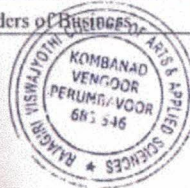
| Course Outcomes | Blooms Level | Que No | Total Marks (including choice) |
|---|--------------------|-----------|--------------------------------|
| CO1: Infer an idea business and its role in society. | K2 (understanding) | 1,6,7,8 | 27 |
| CO3: Illustrate the business environment and various dimensions | K3 (apply) | 2,3,4,5,9 | 23 |

PART -A
(Answer all Questions)

| Q. No | Questions | Marks | CO | Blooms Level |
|-------|--|-------|-----|--------------|
| 1. | What do you mean by Marketing Co-operatives? | 2 | CO1 | K2 |
| 2. | Write the two elements of external environment? | 2 | CO3 | K2 |
| 3. | Define business environment? | 2 | CO3 | K1 |
| 4. | Explain the importance of Environment in business? | 2 | CO3 | K2 |
| 5. | Distinguish between SWOT and TOWS models of environment analysis | 2 | CO3 | K2 |

PARTB
(Answer Any 1 Question)

| Q.No. | Questions | Marks | CO | Blooms Level |
|-------|---|-------|-----|--------------|
| 6. | What is Joint Stock Company? Explain the features of Joint stock company? | 5 | CO1 | K2 |
| 7. | Explain the external stakeholders of Business | 5 | CO1 | K2 |



Dr. Joseph P. V.
PRINCIPAL
Rajagiri Viswajyothi College of Arts and Applied Sciences
Vengoor, Perumbavoor, Kerala - 683546

Mapped
Question Paper

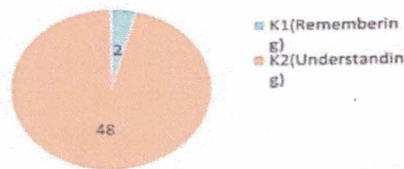




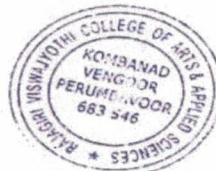
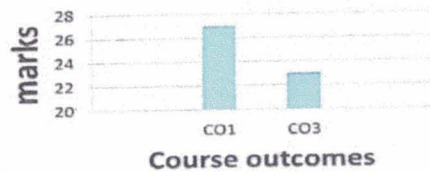
PART C
(Answer Any 1 Question)

| Q.No. | Questions | Marks | CO | Blooms Level |
|-------|---|-------|-----|--------------|
| 8. | Explain the scope of Business | 15 | CO1 | K2 |
| 9. | Describe the various components of business environment | 15 | CO3 | K2 |

**Bloom's Level wise
Marks Distribution**



**Course outcome wise
mark distribution**



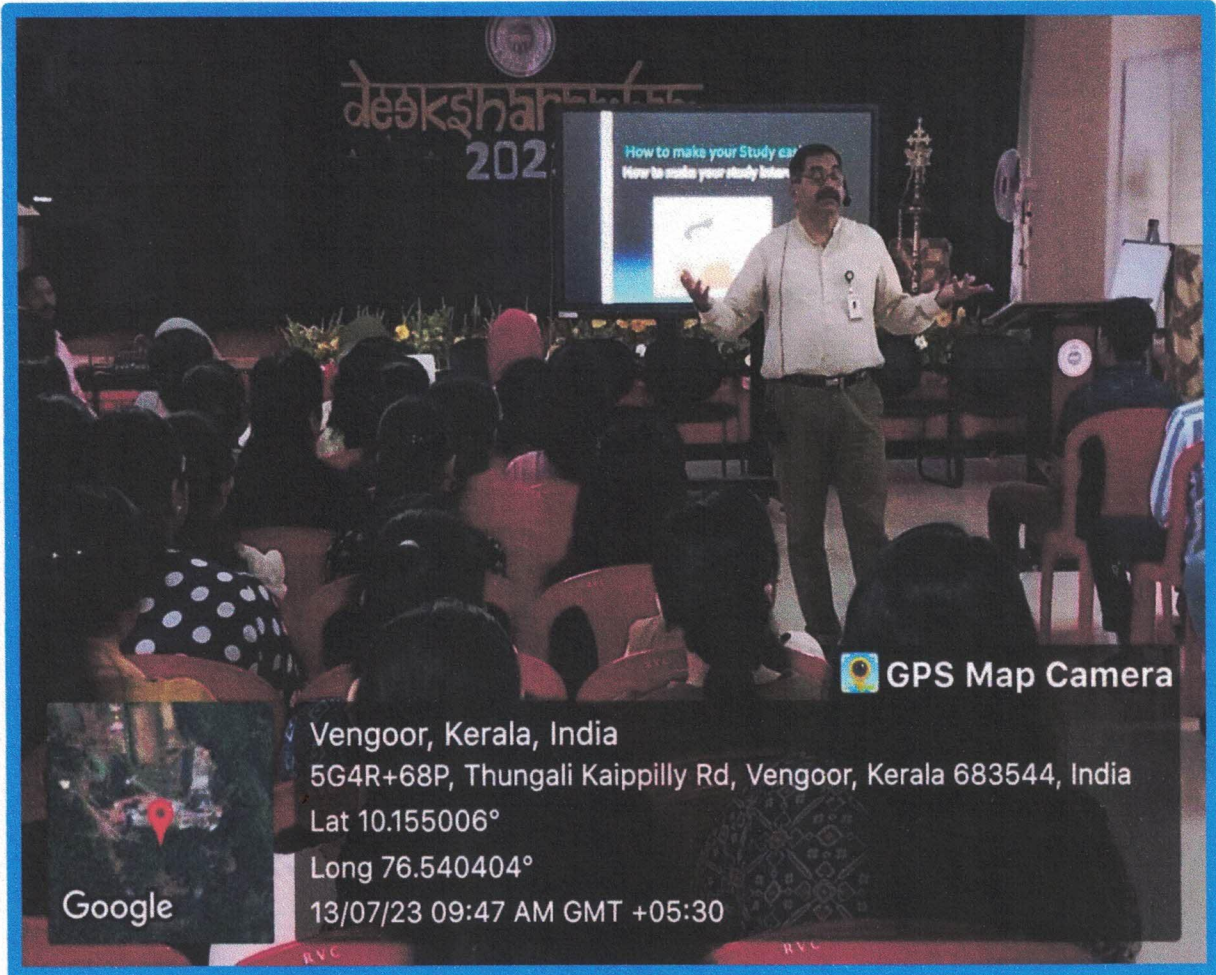
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Mapped Question Paper





First year induction program on PO-PSO-CO



First year induction programme on learning outcomes



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Rajagiri Viswajyothi College of
Arts & Applied Sciences
Vengoor, Perumbavoor-683 546



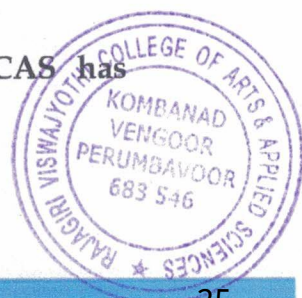
Attainment calculation method

Program Outcomes (POs), Program-Specific Outcomes (PSOs), and Course Outcomes (COs) are clearly defined for every course offered. Each course's COs are linked to the corresponding POs and PSOs. The evaluation of learning outcomes is conducted using both direct and indirect methods, including an Exit Survey. Direct assessment carries a weightage of 80%, while indirect assessment contributes 20% to the overall evaluation.

- Direct Assessment includes both end-of-semester examinations and continuous internal evaluations. Continuous internal evaluations consist of two internal examinations, assignments or seminars, and attendance, all conducted and monitored by the Higher Education Institution (HEI). The end-of-semester examinations are university exams conducted by university.
- Indirect Assessment is based on exit surveys conducted at the end of each course, where students provide feedback on their learning experiences, understanding of course material, and overall satisfaction with instructional approaches.

End-semester assessment results are equally mapped to each Course Outcome (CO). For in-semester assessments, four components are defined in alignment with university rules. Internal examination questions are thoughtfully crafted to align with Bloom's Taxonomy and appropriately map to the COs. Student marks are diligently recorded and entered. Additionally, assignments, seminars, attendance, and other activities are carefully designed to align with the intended learning outcomes through meticulous mapping.

To determine the examination attainment levels of the courses, RVCAS has established a threshold value system.





The students are categorized into three groups: those scoring between 40 to 49 percent (weighted as 1), 50 to 59 percent (weighted as 2), and 60 percent and above (weighted as 3) for both Continuous Internal Assessments and Summative Examinations. Both Continuous Internal Assessments and Summative Examinations carry equal weight, each valued at 0.5. The examination attainment of Course Outcomes is then calculated as the sum of the Continuous Internal Assessment weightage multiplied by the CIA threshold value and the Summative weightage multiplied by the Summative Examinations' threshold value ($0.5 \times \text{CIA threshold value} + 0.5 \times \text{Summative Examinations' threshold value}$).

In the third stage, the college evaluates the direct attainment of each Course Outcome (CO) concerning Programme Outcomes (PO) and Programme Specific Outcomes (PSOs) using the following formula:

Direct attainment = Course Attainment Level * Mean value of the Concerned PO or PSO

In the indirect method, the alignment of Course Outcomes is validated with Programme Outcomes and Programme Specific Outcomes through Course Exit survey.

Finally, the overall attainment is calculated using the following formula:

Overall attainment = [(Assumed Test Weightage * Direct Attainment Value) + (Assumed Feedback Weightage * Feedback Value)].





RAJAGIRI VISWAJYOTHI COLLEGE OF ARTS AND APPLIED SCIENCES

Vengoor, Perumbavoor
DEPARTMENT OF COMMERCE
FIRST SERIES EXAMINATION 2023-2024 (FIRST SEMESTER)
COICRTH- DIMENSIONS AND METHODOLOGY OF BUSINESS STUDIES

Faculty Name: Rahul Babu
Date: 19-09-2023

Year & semester: I & S1
Max. Marks: 30

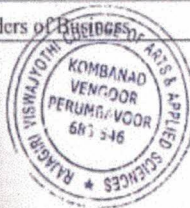
| Course Outcomes | Blooms Level | Que No | Total Marks (Including choice) |
|---|--------------------|-----------|--------------------------------|
| CO1: Infer an idea business and its role in society. | K2 (understanding) | 1,6,7,8 | 27 |
| CO3: Illustrate the business environment and various dimensions | K3 (apply) | 2,3,4,5,9 | 23 |

PART -A
(Answer all Questions)

| Q. No | Questions | Marks | CO | Blooms Level |
|-------|--|-------|-----|--------------|
| 1. | What do you mean by Marketing Co-operatives? | 2 | CO1 | K2 |
| 2. | Write the two elements of external environment? | 2 | CO3 | K2 |
| 3. | Define business environment? | 2 | CO3 | K1 |
| 4. | Explain the importance of Environment in business? | 2 | CO3 | K2 |
| 5. | Distinguish between SWOT and TOWS models of environment analysis | 2 | CO3 | K2 |

PART B
(Answer Any 1 Question)

| Q.No. | Questions | Marks | CO | Blooms Level |
|-------|---|-------|-----|--------------|
| 6. | What is Joint Stock Company? Explain the features of Joint stock company? | 5 | CO1 | K2 |
| 7. | Explain the external stakeholders of Business. | 5 | CO1 | K2 |



(Signature)
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Rajagiri Viswajyothi College of Arts and Applied Sciences
Vengoor, Perumbavoor
Kerala - 683546

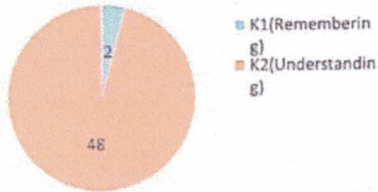




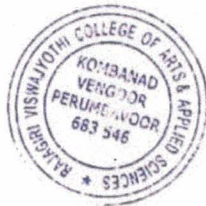
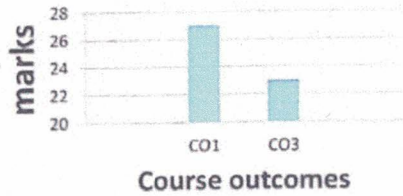
PART C
(Answer Any 1 Question)

| Q.No. | Questions | Marks | CO | Blooms Level |
|-------|---|-------|-----|--------------|
| 8. | Explain the scope of Business | 15 | CO1 | K2 |
| 9. | Describe the various components of business environment | 15 | CO3 | K2 |

**Bloom's Level wise
Marks Distribution**



**Course outcome wise
mark distribution**



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DMBS -Mapped question paper





RAJAGIRI VISWAJYOTHI COLLEGE OF ARTS AND APPLIED SCIENCES
Vengoor, Perumbavoor
DEPARTMENT OF BCA
FIRST SERIES EXAMINATION 2023-2024(FIRST SEMESTER)

MMICMT03 DISCRETE MATHEMATICS (I)

Faculty Name: SARITHA P N

Year & Semester: I&S1

Date: 15-09-2023

Max. Marks :30

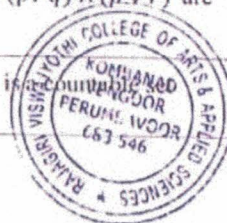
| Course Outcomes | Blooms Level | Que No | Total Marks (Including choice) |
|---|---|-----------|--------------------------------|
| CO1: Understand and apply propositional logic, including propositional equivalence, predicates, quantifiers, and rules of inference | K2 (Understand) K3 (Apply) | 1,2,6,8 | 24 |
| CO2: Define and manipulate sets, perform set operations, and analyze functions, sequences, and summations | K2 (Understand) K3 (Apply) K4 (Analyze) | 3,4,5,7,9 | 26 |

PART -A
(Answer all Questions)

| Q. No | Questions | Marks | CO | Blooms Level |
|-------|---|-------|-----|--------------|
| 1. | Explain proposition with example | 2 | CO1 | K2 |
| 2. | Explain Tautology and contradiction | 2 | CO1 | K2 |
| 3. | Describe cartesian product of two sets and also find the cartesian product of $A=\{1,2\}$ and $B=\{a,b,c\}$ | 2 | CO2 | K2 |
| 4. | Explain One- to- One and Onto function. | 2 | CO2 | K2 |
| 5. | Describe ordered n-tuple. | 2 | CO2 | K2 |

PARTB
(Answer Any 1 Question)

| Q.No. | Questions | Marks | CO | Blooms Level |
|-------|---|-------|-----|--------------|
| 6. | Show that $p \vee (q \wedge r)$ and $(p \vee q) \wedge (p \vee r)$ are logically equivalent | 5 | CO1 | K3 |
| 7. | Show that set of all integers is | 5 | CO2 | K3 |

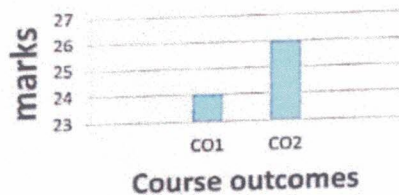




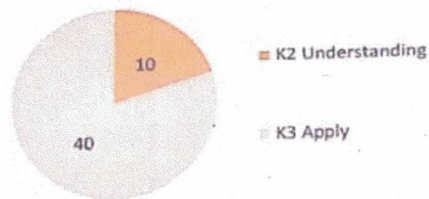
PART C
(Answer Any 1 Question)

| Q.No. | Questions | Marks | CO | Blooms Level |
|-------|---|-------|-----|--------------|
| 8. | (a) Define simple and compound propositions and construct the truth table conjunction and disjunction of two propositions (b) Construct the truth table for inverse, converse and contrapositive of $p \rightarrow q$ (c) Let p and q be the propositions p : "Swimming at the New Jersey shore is allowed". q : "Sharks have been spotted near the shore". Construct the following compound proposition as an English sentence $p \rightarrow \neg q$ | 15 | CO1 | K3 |
| 9. | Explain sequences and summation. Also explain special integer sequences with examples. | 15 | CO2 | K3 |

Course outcome wise mark distribution



Bloom's Level wise Marks Distribution



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 HOD, P
 RAJAGIRI VISWAJYOTHI COLLEGE OF ARTS & APPLIED SCIENCES
 VENGLOOR, PERUMBAVOOR
 683546



Discrete mathematics-mapped question paper





CO-PO&CO-PSO Mapping

| CO-PO MAPPING OF THE COURSE DISCRETE MATHEMATICS | | | | | | | CO-PSO MAPPING OF THE COURSE DISCRETE MATHEMATICS | | | | |
|--|------------------------|-----|------|-----|------|-----|---|----------------------------------|------|-------|-------|
| CO | PROGRAMME OUTCOMES(PO) | | | | | | CO | PROGRAMME SPECIFIC OUTCOMES(PSO) | | | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | | PSO1 | PSO2 | PSO3 | PSO4 |
| CO1 | 3 | 1 | 3 | 2 | 2 | - | CO1 | 2 | 1 | - | - |
| CO2 | 3 | 1 | 3 | 3 | 2 | - | CO2 | 3 | 2 | 2 | 1 |
| CO3 | 3 | 1 | 3 | 3 | 2 | - | CO3 | 2 | 2 | 1 | 1 |
| CO4 | 3 | 1 | 2 | 2 | 1 | - | CO4 | 1 | 2 | 2 | 2 |
| AVERAGE | 3 | 1 | 2.75 | 2.5 | 1.75 | - | AVERAGE | 2 | 1.75 | 1.566 | 1.333 |

| MAPPING CORRELATION | LOW | MED | HIGH | NO |
|---------------------|-----|-----|------|----|
| | 1 | 2 | 3 | - |

| MAPPING CORRELATION | LOW | MED | HIGH | NO |
|---------------------|-----|-----|------|----|
| | 1 | 2 | 3 | - |



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CO-PO&CO-PSO mapping of the course discrete mathematics





CO-PO MAPPING OF THE COURSE DIMENSIONS AND METHODOLOGY OF BUSINESS STUDIES CO-PSO MAPPING OF THE COURSE DIMENSIONS AND METHODOLOGY OF BUSINESS STUDIES

| CO | PROGRAMME OUTCOMES(PO) | | | | | | CO | PROGRAMME SPECIFIC OUTCOMES(PSO) | | | |
|---------|------------------------|-----|-----|-----|------|-----|---------|----------------------------------|------|------|------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | | COURSE OUTCOME(CO) | PSO1 | PSO2 | PSO3 |
| CD1 | 3 | 2 | 2 | 1 | 1 | 3 | CO1 | 3 | 1 | 3 | 1 |
| CD2 | 2 | 2 | 1 | - | - | 3 | CO2 | 2 | - | 2 | - |
| CD3 | 3 | 2 | 3 | 2 | 1 | 2 | CO3 | 3 | 1 | 3 | 2 |
| CD4 | 2 | 1 | 2 | 3 | 3 | 2 | CO4 | 2 | - | 2 | 3 |
| CD5 | 3 | 2 | 3 | 2 | 2 | 1 | CO5 | 3 | 1 | 3 | 1 |
| AVERAGE | 2.6 | 1.8 | 2.2 | 2 | 1.75 | 2.2 | AVERAGE | 2.6 | 1 | 2.6 | 1.75 |

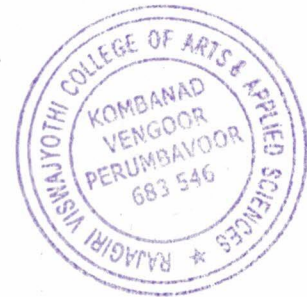
| MAPPING CORRELATION | LOW | MED | HIGH | NO |
|---------------------|-----|-----|------|----|
| | 1 | 2 | 3 | - |

| MAPPING CORRELATION | LOW | MED | HIGH | NO |
|---------------------|-----|-----|------|----|
| | 1 | 2 | 3 | - |



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CO-PO&CO-PSO mapping of the course DMBS





Sample of Internal exam answer sheet after implementing OBE

Date: _____



RAJAGIRI VISWAJYOTHI
COLLEGE OF ARTS AND APPLIED SCIENCES
VENGOOR, PERUMBAVOOR KERALA- 683546


FIRST/SECOND INTERNAL EXAMINATION

NAME: K A Akhila CLASS: B.com mt F&F
 CLASS NO: _____ PROGRAMME: B.com COURSECODE: COICRT01
 COURSE PAPER: DMBS

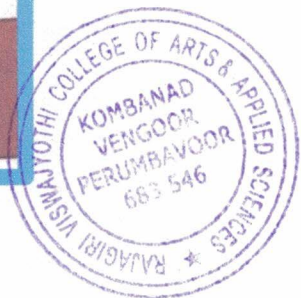
| | | |
|--|---|--|
| CO: Infer an idea business and its role in society | CO:3 Illustrate the business environment and various dimensions | |
| 1 6 7 8 | 2 3 4 5 | |
| 2 5 15 | 2 2 2 2 | |

TOTAL MARK: 30

NAME OF EXAMINER: Rahul Babu

SIGNATURE OF THE EXAMINER: 

used for public sector.




Internal exam answer sheet -Specimen copy





Sample of Assignment question paper mapped with course outcomes



RAJAGIRI VISWAJYOTHI COLLEGE OF ARTS AND APPLIED SCIENCES
ASSIGNMENT I - DMBS

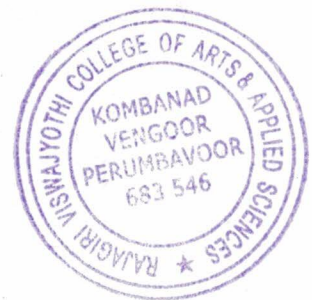
Max. Marks:5

| Course Outcomes | Blooms Level | Que No | Total Marks |
|--|-----------------|--------|-------------|
| CO2: Gather an overview of Business ethics and Corporate Social Responsibility | K2 (Understand) | 1 | 5 |
| CO3: Illustrate the business environment and various dimensions | K3 (Apply) | 2 | 5 |

Answer any 1 Question

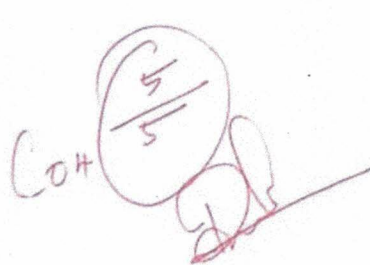
| Q. No | Questions | Marks | CO | Blooms Level |
|-------|---------------------------------|-------|-----|--------------|
| 1. | Write a note on business ethics | 5 | CO2 | K2 |
| 2. | Explain business environment | 5 | CO3 | K2 |

Assignment question paper-Specimen copy





Sample of Assignment after implementing OBE

| | | |
|--|---|--|
| | <p>Assignment on Determinations and Methodology of Business Studies</p> <p>Topic: Major elements of cash Payment System</p> <p>COH </p> <p>Submitted By K.A AKhila Bcom model 1 Semester 1 Submitted to Rahul Babu Dept of Commerce Submitted on: 11/12/2024</p> | |
|--|---|--|



Assignment-specimen copy



Sample of course exit survey

8/21/24, 11:59 AM COURSE EXIT SURVEY

COURSE EXIT SURVEY

RAJAGIRI VISWAJYOTHI COLLEGE OF ARTS AND APPLIED SCIENCES
DEPARTMENT OF COMMERCE
COURSE NAME:CO1CRT01 Dimensions and Methodology of Business Studies

* Indicates required question.

1. Student Name *
2. Roll No *
3. Year of study *
4. Semester *
5. Department *

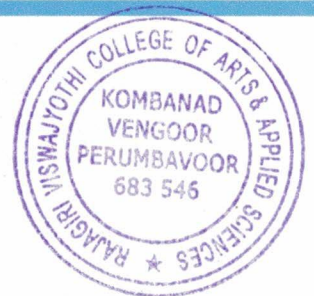
<https://docs.google.com/forms/d/1UJLRLGkIsmCvgSPWUJCzBU-EdH1QtwWV6@shwfwtr>

8/21/24, 11:59 AM COURSE EXIT SURVEY

6. Please rate each of the following attributes in terms of how will the course helps you attain the following attributes.
7. CO1:Infer an idea business idea and its role in society.*
Mark only one oval.
 Strongly agree
 Agree
 Neutral
 Disagree
8. CO2:Gather an overview of Business ethics and Corporate Social Responsibility.*
Mark only one oval.
 Strongly agree
 Agree
 Neutral
 Disagree
9. CO3:Illustrate the business environment and various dimensions.*
Mark only one oval.
 Strongly Agree
 Agree
 Neutral
 Disagree

<https://docs.google.com/forms/d/1UJLRLGkIsmCvgSPWUJCzBU-EdH1QtwWV6@shwfwtr>

Course Exit Survey-Google Form





| Student Name | Roll No | Year of study | Semester | CO1:Infer an idea business and its role in society. | CO2:Gather an overview of Business ethics and Corporate Social Responsibility. | CO3:Illustrate the business environment and various dimensions | CO4:Extend the Technology integration in business. | CO5:Review the importance and fundamentals of business research. | Effectively the course is delivered? | Satisfied with the course evaluation |
|-------------------|---------|---------------|----------|---|--|--|--|--|--------------------------------------|--------------------------------------|
| Muhammed k salin | 1341 | 2 | 1 | 3 | 3 | 3 | 3 | 2 | 3 | 2 |
| Sonam Bhaskar | 1152 | 2023 | 1 | 4 | 4 | 4 | 3 | 3 | 3 | 3 |
| Joel joy | 1145 | 2023 | 1 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| Jeevan S | 1143 | 2023 | 1 | 3 | 4 | 3 | 3 | 3 | 3 | 3 |
| Adith Paul Ashwar | 1132 | 2023-2026 | 1 | 4 | 4 | 4 | 3 | 3 | 3 | 4 |
| Basil Sabu | 1137 | 2023-26 | 1 | 3 | 3 | 3 | 4 | 3 | 4 | 4 |
| Vinayak.h | 1344 | 2023 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Beyon Laljo | 1138 | 2023 | 1st | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Nikhil Biju | 1151 | 2023-26 | 1 | 2 | 3 | 2 | 2 | 2 | 2 | 2 |
| Abhinav Babu | 1154 | 2023-2026 | 1 | 2 | 2 | 2 | 2 | 3 | 2 | 2 |
| Amjad N S | | 2023-2026 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 |
| Daiz Shijo | 1139 | 2023-26 | 1 | 4 | 4 | 4 | 3 | 3 | 4 | 3 |
| Akhil | 1345 | 2023-2026 | 1 | 3 | 3 | 2 | 3 | 2 | 3 | 3 |
| Athul M Sajeev | 1156 | 2023-2026 | 1 | 3 | 3 | 2 | 2 | 3 | 3 | 3 |
| Sreechandra N. C. | 1153 | 2023 | 1 | 3 | 4 | 4 | 4 | 3 | 4 | 4 |
| HAIRUNNISA KS | 1141 | 2023-2026 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Fiza Fathima T F | 1140 | 2023-2026 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Alen M Joseph | 1133 | 2023-2026 | 1 | 3 | 3 | 2 | 3 | 2 | 2 | 2 |
| Lima Sharaf | 1148 | 2023 - 2026 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Hridhysa binu | | 2023-2026 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| SANKAR.SREEDHA | 1151 | 2023 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| K A Akhila | | 2023-2026 | 1 | 3 | 3 | 3 | 3 | 4 | 4 | 4 |
| able Susan Georg | 1149 | 2023-26 | 1 | 2 | 3 | 3 | 3 | 2 | 2 | 2 |
| Jens George | 1342 | 2023-2026 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| AVERAGE | | | | 3.136363636 | 3.333333333 | 3.125 | 3.125 | 3 | 3.208333333 | 3.166666667 |



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Course Exit survey analysis





CO, PO, PSO ATTAINMENT

| | Maximum marks | 27 | 24 | 23 | 7 | 24 | 80 |
|---------|------------------------|-----|-----|-----|-----------------------------|-----|--------------------------|
| | | | | | CO4(Series Exam+Assignment) | | External Assessment test |
| Roll No | Course Outcome Student | CO1 | CO2 | CO3 | | CO5 | |
| 1 | ADITH PAUL ASWAN | 7 | 14 | 23 | 7 | 12 | 62 |
| 2 | AKSHAY ABLE | 5 | 12 | 22 | 7 | 10 | 50 |
| 3 | ALEN M JOSEPH | 7 | 16 | 17 | 7 | 8 | 47 |
| 4 | AMJAD N.S | 22 | 7 | 8 | 7 | 9 | 24 |
| 5 | ASHLY SUSAN BENNY | 14 | 7 | 8 | 7 | 10 | 34 |
| 6 | BASIL SABU | 7 | 12 | 20 | 7 | 12 | 49 |
| 7 | BEYON LALJO | 18 | 9 | 3 | 7 | 11 | 28 |
| 8 | DAIZ SHUJO | 7 | 18 | 11 | 7 | 10 | 42 |
| 9 | FIZA FATHIMA TF | 16 | 14 | 13 | 7 | 14 | 50 |
| 10 | HAIRUNNISA K.S | 7 | 9 | 23 | 7 | 13 | 52 |
| 11 | HRIDHYA BINU | 22 | 19 | 8 | 7 | 18 | 58 |
| 12 | JEEVAN S | 4 | 11 | 13 | 7 | 5 | 17 |
| 13 | JENS GEORGE BIJU | 6 | 3 | 23 | 7 | 17 | 46 |
| 14 | JOEL JOY | 6 | 8 | 16 | 7 | 9 | 40 |
| 15 | K.A. AKHILA | 20 | 17 | 8 | 7 | 11 | 64 |
| 16 | LIMA SHARAF | 7 | 10 | 23 | 7 | 14 | 58 |
| 17 | MABLE SUSAN GEORGE | 20 | 14 | 8 | 7 | 9 | 51 |
| 18 | NEVIN MICHAEL | 15 | 7 | 6 | 7 | 8 | 15 |
| 19 | NIKHIL BIJU | 12 | 7 | 7 | 7 | 6 | 35 |
| 20 | SIVASANKER SREEDHARAN | 22 | 8 | 8 | 7 | 10 | 48 |
| 21 | SONAM | 19 | 14 | 8 | 7 | 10 | 46 |
| 22 | SREECHANDRA NC | 13 | 12 | 10 | 7 | 11 | 31 |
| 23 | ABHINAV BABU | 14 | 7 | 13 | 7 | 5 | 28 |
| 24 | ATHUL M SAJEEV | 6 | 5 | 12 | 5 | 6 | 12 |
| 25 | SAVIYO SIBI | 9 | 4 | 9 | 5 | 5 | 12 |

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Kerala, India

Attainment Calculation





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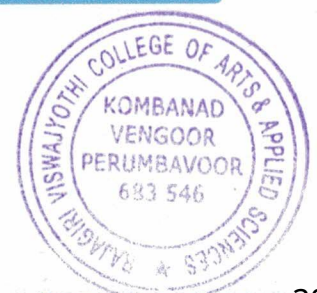
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Vengoor, Perumbavoor, Kerala - 683546

| Tools | Internal Assessment test, Assignment, External Evaluation, Course Exit Survey | CO1 | CO2 | CO3 | CO4(Series+A ssignment) | CO5 | External Assessment Test |
|---------|---|-----|-----|-----|----------------------------|-----|--------------------------------|
| Roll No | Student | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | ADITH PAUL ASWAN | 3 | 6 | 10 | 10 | 5 | 8 |
| 2 | AKSHAY ABLE | 2 | 5 | 10 | 10 | 4 | 6 |
| 3 | ALEN M JOSEPH | 3 | 7 | 7 | 10 | 3 | 6 |
| 4 | AMJAD N.S | 8 | 3 | 3 | 10 | 4 | 3 |
| 5 | ASHLY SUSAN BENNY | 5 | 3 | 3 | 10 | 4 | 4 |
| 6 | BASIL SABU | 3 | 5 | 9 | 10 | 5 | 6 |
| 7 | BEYON LALJO | 7 | 4 | 1 | 10 | 5 | 4 |
| 8 | DAIZ SHIJO | 3 | 8 | 5 | 10 | 4 | 5 |
| 9 | FIZA FATHIMA TF | 6 | 6 | 6 | 10 | 6 | 6 |
| 10 | HAIRUNNISA K.S | 3 | 4 | 10 | 10 | 5 | 7 |
| 11 | HRIDHYA BINU | 8 | 8 | 3 | 10 | 8 | 7 |
| 12 | JEEVAN S | 1 | 5 | 6 | 10 | 2 | 2 |
| 13 | JENS GEORGE BIJU | 2 | 1 | 10 | 10 | 7 | 6 |
| 14 | JOEL JOY | 2 | 3 | 7 | 10 | 4 | 5 |
| 15 | K.A. AKHILA | 7 | 7 | 3 | 10 | 5 | 8 |
| 16 | LIMA SHARAF | 3 | 4 | 10 | 10 | 6 | 7 |
| 17 | MABLE SUSAN GEORGE | 7 | 6 | 3 | 10 | 4 | 6 |
| 18 | NEVIN MICHAEL | 6 | 3 | 3 | 10 | 3 | 2 |
| 19 | NIKHIL BIJU | 4 | 3 | 3 | 10 | 3 | 4 |
| 20 | SIVASANKER SREEDHARAN | 8 | 3 | 3 | 10 | 4 | 6 |
| 21 | SONAM | 7 | 6 | 3 | 10 | 4 | 6 |
| 22 | SREECHANDRA NC | 5 | 5 | 4 | 10 | 5 | 4 |
| 23 | ABHINAV BABU | 5 | 3 | 6 | 10 | 2 | 4 |
| 24 | ATHUL M SAJEEV | 2 | 2 | 5 | 7 | 3 | 2 |
| 25 | SAVIYO SIBI | 3 | 2 | 4 | 7 | 2 | 2 |

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Vengoor, Perumbavoor

Attainment Calculation





| Index Sheet | | | | | | | Number of students | 25 |
|---------------------|--|-----|-----|-----|-----|-----|--------------------|----|
| Academic Year | 2023-2024 | | | | | | | |
| Semester | FIRST SEMESTER | | | | | | | |
| Name of the subject | DIMENSIONS AND METHODOLOGY OF BUSINESS STUDIES | | | | | | | |
| Roll No | Student | CO1 | CO2 | CO3 | CO4 | CO5 | CO6 | |
| 1 | ADITH PAUL ASIWAN | 3 | 6 | 10 | 10 | 5 | 8 | |
| 2 | AKSHAY ABLE | 2 | 5 | 10 | 10 | 4 | 6 | |
| 3 | ALEN M JOSEPH | 3 | 7 | 7 | 10 | 3 | 6 | |
| 4 | AMJAD N.S | 8 | 3 | 3 | 10 | 4 | 3 | |
| 5 | ASHLY SUSAN BENNY | 5 | 3 | 3 | 10 | 4 | 4 | |
| 6 | BASIL SABU | 3 | 5 | 9 | 10 | 5 | 6 | |
| 7 | BEYON LALJO | 7 | 4 | 1 | 10 | 5 | 4 | |
| 8 | DAIZ SHUJO | 3 | 8 | 5 | 10 | 4 | 5 | |
| 9 | FIZA FATHIMA TF | 6 | 8 | 8 | 10 | 6 | 6 | |
| 10 | HARUNNISA K.S | 3 | 4 | 10 | 10 | 5 | 7 | |
| 11 | HRIDYIA BINU | 5 | 4 | 3 | 10 | 8 | 7 | |
| 12 | JEEVAN S | 1 | 5 | 6 | 10 | 2 | 2 | |
| 13 | JENS GEORGE BIJU | 2 | 1 | 10 | 10 | 7 | 6 | |
| 14 | JOEL JOY | 2 | 3 | 7 | 10 | 4 | 5 | |
| 15 | K.A. AKHILA | 7 | 7 | 3 | 10 | 5 | 8 | |
| 16 | LIMA SHARAF | 3 | 4 | 10 | 10 | 6 | 7 | |
| 17 | MABLE SUSAN GEORGE | 7 | 6 | 3 | 10 | 4 | 6 | |
| 18 | NEVIN MICHAEL | 6 | 3 | 3 | 10 | 3 | 2 | |
| 19 | MIKIL BIJU | 4 | 3 | 3 | 10 | 3 | 4 | |
| 20 | SHIVASANKER SREEDHARAN | 6 | 3 | 3 | 10 | 4 | 6 | |
| 21 | SONAM | 7 | 6 | 3 | 10 | 4 | 6 | |
| 22 | SREECHANDRA NC | 5 | 5 | 4 | 10 | 5 | 4 | |
| 23 | ABHINAV BABU | 5 | 3 | 8 | 10 | 2 | 4 | |
| 24 | ATHUL M SAJEEV | 2 | 2 | 5 | 7 | 3 | 2 | |
| 25 | SAVYO SIBI | 3 | 2 | 4 | 7 | 2 | 2 | |

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| Course Outcome | CO1 | CO2 | CO3 | CO4 | CO5 | EIA |
|---------------------------------------|-----|-----|-----|-----|-----|-----|
| Passing students (course exit survey) | 9 | 8 | 6 | 8 | 8 | 6 |
| Number of students above bench mark | 13 | 13 | 14 | 25 | 18 | 17 |
| Percentage | 32 | 32 | 36 | 100 | 89 | 83 |
| Attainment level | 2 | 2 | 2 | 3 | 2 | 3 |

TOOLS
INTERNAL ASSESSMENT TESTS
EXTERNAL ASSESSMENT TESTS
ASSIGNMENT
COURSE EXIT SURVEY



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Attainment Calculation





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COLLEGE OF ARTS AND APPLIED SCIENCES

VENGOOR, PERUMBAVOOR KERALA- 683546

DEPARTMENT OF COMMERCE

ATTAINMENT

| | | | |
|-----------------|-------------|--------------|--|
| Semester | I | Subject | DIMENSIONS AND METHODOLOGY OF BUSINESS STUDIES |
| Batch | MODEL 1 F&T | Course code | COICRT01 |
| Assessment Year | 2023-24 | Faculty Name | RAHUL BABU |

| CO ATTAINMENT MATRIX | | | | | | CO ATTAINMENT COUNE MATRIX | | | | | |
|--------------------------|-----|-----|-----|-----|-----|----------------------------|--------|--------|--------|--------|--------|
| Assessment Tools | CO1 | CO2 | CO3 | CO4 | CO5 | Assessment Tools | CO1 | CO2 | CO3 | CO4 | CO5 |
| Internal assessment test | 2 | 2 | 2 | 3 | 2 | Internal assessment test | 13(25) | 13(25) | 14(25) | 25(25) | 15(25) |

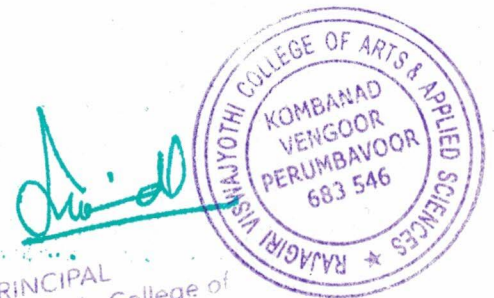
| | | | | | |
|------------------------|-----------|-----------|-----------|-----------|----------|
| CO Direct Attainment | 60%(2) | 60%(2) | 62%(3) | 84%(3) | 64%(3) |
| CO Indirect Attainment | 78.40%(3) | 83.25%(3) | 78.12%(3) | 78.12%(3) | 75%(3) |
| CO Attainment | 63.68%(3) | 64.65%(2) | 65.224(3) | 81.824(3) | 66.2%(3) |

| COURSE PO MATRIX | | | | | | |
|------------------|-----------|--------|--------|--------|-----------|-----------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 |
| Course Mapped | 2.6 | 1.8 | 2.2 | 2 | 1.75 | 2.2 |
| Course Attained | 62.18%(3) | 60%(2) | 64%(3) | 73%(3) | 75.42%(3) | 62.18%(3) |

| COURSE PSO MATRIX | | | | |
|-------------------|-----------|--------|-----------|-----------|
| | 2.6 | 1 | 2.6 | 1.75 |
| Course attained | 62.15%(3) | 56%(2) | 62.15%(3) | 74.85%(3) |



Final attainment



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2.6.2

Attainment of Pos and Cos are evaluated

Outcome Based Education Manual



RAJAGIRI VISWAJYOTHI
COLLEGE OF ARTS & APPLIED SCIENCES

Vengoor, Perumbavoor, Kerala - 683546

OBE MANUAL



WHAT IS **OUTCOME-BASED** **EDUCATION (OBE)?**

| Sl. NO | Contents | Page. NO |
|--------|--|----------|
| 1 | Introduction | 3 |
| 2 | Benefits of Outcome-Based Education | 4 |
| 3 | Key features of OBE | 5 |
| 4 | Outline of the Key steps of OBE | 7 |
| 5 | Strategies for Articulate Learning Outcomes | 8 |
| 6 | Program Outcomes | 9 |
| 7 | Program Specific Outcomes | 9 |
| 8 | Course Outcomes | 10 |
| 9 | Bloom's Taxonomy | 12 |
| 10 | Methodology of CO-PO mapping | 14 |
| 11 | Attainment of POs and Cos are calculated | 15 |





RAJAGIRI VISWAJYOTHI

COLLEGE OF ARTS AND APPLIED SCIENCES

VENGOOR , PERUMBAVOOR KERALA- 683546

OUTCOME-BASED EDUCATION MANUAL

Introduction

Outcome-Based Education (OBE) is an educational paradigm that brings clarity to the learning process by articulating specific and measurable learning outcomes, providing educators and students with a clear understanding of what is expected. Outcome-Based Education (OBE) is a student-centric teaching and learning methodology in which the course delivery, assessment are planned to achieve stated objectives and outcomes. It focuses on measuring student performance i.e. outcomes at different levels. By aligning educational objectives with real world skills and competencies, OBE ensures that students acquire practical knowledge that is relevant to their future careers.

OBE places a strong emphasis on continuous assessment and feedback, allowing for the measurement of progress towards achieving the specified learning outcomes. This ongoing assessment not only provides valuable insights into individual student performance but also allows for timely intervention and adjustments in teaching strategies. The flexibility inherent in OBE accommodates diverse learning styles and paces, acknowledging the individuality of students and promoting a more personalized learning experience.

Furthermore, OBE establishes a framework for quality assurance within educational institutions. By defining clear outcomes, institutions can assess the effectiveness of their programs and make informed decisions to enhance the overall quality of education. This accountability extends to educators who are held responsible for guiding students towards the achievement of specific learning objectives. Additionally, OBE cultivates a mindset of lifelong learning by not only imparting content knowledge but also fostering critical thinking, problem-solving, and other transferable skills.



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On a global scale, OBE facilitates the recognition of qualifications by providing a standardized framework for assessing educational achievements. This, in turn, promotes the mobility of students and professionals across borders, contributing to a more interconnected and globally aware workforce. Lastly, OBE encourages efficient resource allocation within educational institutions, as it allows for the optimization of curriculum and teaching methods to better meet the defined learning goals. Overall, Outcome-Based Education stands as a comprehensive and effective approach that not only prepares students for success in their chosen fields but also contributes to the continuous improvement of the educational process.

Benefits of Outcome-Based Education (OBE)

Outcome-Based Education (OBE) offers numerous benefits that contribute to a more effective and student-centered learning environment. One primary advantage is the clarity it brings to the educational process. By defining specific and measurable learning outcomes, OBE provides clear expectations for both educators and students, ensuring everyone is on the same page regarding the goals of the educational experience. Another key benefit is the shift toward a student-centered approach. OBE focuses on what students are expected to learn, promoting active participation and engagement in the learning process. This shift emphasizes the development of practical skills and competencies that are directly applicable to real-world scenarios, aligning education with the needs of the workforce. Continuous assessment and feedback are integral components of OBE, allowing for the regular measurement of student progress. This ongoing evaluation not only provides insights into individual performance but also enables timely intervention and adjustments in teaching strategies to better meet the needs of students.

Flexibility is inherent in OBE, accommodating diverse learning styles and paces. This adaptability ensures that students can progress through material at their own rate, promoting a more personalized learning experience. Additionally, OBE establishes a framework for quality assurance, enabling institutions to assess the effectiveness of their programs and continuously improve educational offerings.



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OBE fosters a culture of accountability, as educators are held responsible for guiding students toward the achievement of specific learning objectives. Beyond content knowledge, OBE encourages the development of critical thinking, problem-solving, and other transferable skills, cultivating a mindset of lifelong learning.

On a global scale, OBE facilitates the recognition of qualifications, making it easier to assess and compare educational achievements worldwide. This recognition promotes the mobility of students and professionals across borders, contributing to a more interconnected and globally aware society

Efficient resource allocation is also a notable benefit of OBE. By focusing on defined learning outcomes, institutions can optimize their curriculum, teaching methods, and assessment strategies to better meet the identified goals.

In summary, Outcome-Based Education provides a comprehensive framework that enhances educational clarity, fosters a student-centered approach, promotes continuous assessment, ensures flexibility, establishes quality assurance, encourages accountability, cultivates lifelong learning, facilitates global recognition, and optimizes resource allocation.

Key features of OBE

Outcome-Based Education (OBE) is characterized by several key features that distinguish it from traditional education models. One fundamental aspect involves the articulation of clearly defined and measurable learning outcomes or competencies. These outcomes serve as the cornerstone of OBE, specifying the knowledge and skills students should possess by the completion of a course or program. This emphasis on explicit outcomes enables a more focused and purposeful educational experience.

A central tenet of OBE is its commitment to a student-centered approach. Unlike traditional teaching-focused models, OBE places students at the core of the educational process. This shift encourages active engagement, self-directed learning, and the cultivation of critical thinking skills. By prioritizing the learner,



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OBE aims to empower students to take ownership of their education and development.

Furthermore, OBE aligns learning outcomes with real-world skills and competencies. This ensures that the education provided is directly relevant to the demands of the workforce. By integrating practical applications, OBE prepares students to apply their knowledge in authentic settings, enhancing their readiness for professional environments.

Continuous assessment and feedback represent another hallmark of OBE. Throughout the learning journey, OBE emphasizes ongoing evaluation to monitor student progress, identify areas for improvement, and make timely adjustments to teaching strategies. This iterative process of assessment and feedback contributes to a dynamic and responsive educational environment.

Flexibility and adaptability are key principles embedded in OBE. Recognizing the diversity in learning styles, paces, and individual needs, OBE allows for flexibility in how students achieve the defined learning outcomes. This adaptability promotes a more personalized learning experience tailored to the unique characteristics of each student.

Quality assurance is integral to OBE, as it establishes a framework for evaluating the effectiveness of educational programs. By setting clear expectations for learning outcomes, institutions can systematically assess and enhance the quality of education they provide, ensuring that it meets the intended objectives.

Furthermore, OBE instils a sense of accountability among both educators and students. Educators are accountable for guiding students toward the achievement of specific learning outcomes, while students are accountable for their own learning. This shared responsibility creates a collaborative and committed educational community.

In addition to content knowledge, OBE places a strong emphasis on the development of transferable skills. This emphasis aligns with the goal of fostering a mindset of lifelong learning, equipping students with the skills necessary for continuous personal and professional development



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Global recognition is facilitated by OBE through its emphasis on clear and measurable outcomes. This makes it easier to assess and compare educational achievements on a global scale, contributing to increased mobility of students and professionals across borders.

Finally, OBE encourages efficient resource allocation within educational institutions. By focusing on essential learning outcomes, institutions can optimize their curriculum, teaching methods, and assessment strategies, ensuring that resources are aligned with the identified goals. Collectively, these key features position Outcome-Based Education as a student centered, outcomes-driven, and adaptable approach to education that prepares learners for success in the dynamic landscape of the 21st century

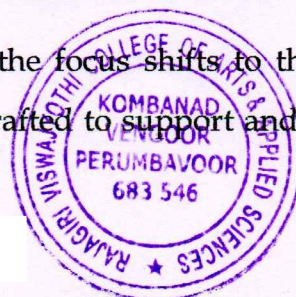
Outline of the Key steps of OBE


Outcome-Based Education (OBE) involves a systematic series of steps in curriculum design, implementation, and assessment. The initial phase begins with the explicit definition of learning outcomes. These outcomes serve as the foundation of OBE, delineating the specific knowledge, skills, and attitudes that students are expected to acquire by the conclusion of a course or program. This step requires collaboration among educators to establish clear and measurable objectives.

Following the definition of learning outcomes, the alignment process ensues, where these outcomes are harmonized with broader educational goals and standards. This alignment ensures that the curriculum is not only internally coherent but also consistent with institutional objectives and external benchmarks, contributing to the overall quality and relevance of the education provided.

Subsequently, the development of assessments takes center stage. Various assessment methods, including exams, projects, presentations, and practical demonstrations, are designed to align closely with the defined learning outcomes. The aim is to create assessment instruments that effectively measure the extent to which students have achieved the desired educational goals.

With the assessments in place, the focus shifts to the creation of instructional strategies. These strategies are crafted to support and enhance the attainment of




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learning outcomes. The emphasis here is on developing diverse and effective teaching methods that cater to different learning styles, fostering an environment conducive to active engagement and critical thinking among students.

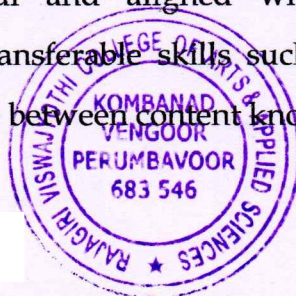
Upon the completion of these preparatory steps, the curriculum is ready for implementation. Educators execute the curriculum based on the defined outcomes, assessments, and instructional strategies. Importantly, this phase involves continuous monitoring, allowing educators to adapt their teaching methods dynamically to ensure that students are progressing effectively toward the specified learning goals.

An integral aspect of OBE is the incorporation of continuous assessment and feedback mechanisms throughout the learning process. Regular assessments provide ongoing insights into student progress, and timely feedback allows for necessary adjustments in instructional strategies. This iterative approach contributes to a dynamic and responsive educational environment, promoting the ongoing improvement of teaching and learning practices.

In essence, the key steps of OBE encompass the articulation of clear learning outcomes, alignment with broader educational goals, development of effective assessments and instructional strategies, curriculum implementation with ongoing monitoring, and the incorporation of continuous assessment and feedback to enhance the overall educational experience.

Strategies for Articulate Learning Outcomes

Articulating effective learning outcomes within Outcome-Based Education (OBE) involves strategic considerations. Start by incorporating strong action verbs such as "analyze" or "synthesize" to precisely define the cognitive actions expected of students. Ensure that outcomes are both specific and measurable, aligning them with the levels of Bloom's Taxonomy for a structured approach to cognitive complexity. Establish a connection between learning outcomes and real-world applications, emphasizing the practical relevance of acquired knowledge and skills. Collaboration with diverse stakeholders, including students and industry professionals, ensures that outcomes remain meaningful and aligned with broader expectations. Additionally, focus on fostering transferable skills such as critical thinking and collaboration, maintaining a balance between content knowledge and process skills.



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Regularly reviewing and revising learning outcomes is crucial to adapting them to evolving educational needs and contexts. These strategies collectively contribute to the development of clear, relevant, and effective learning outcomes in the OBE framework.

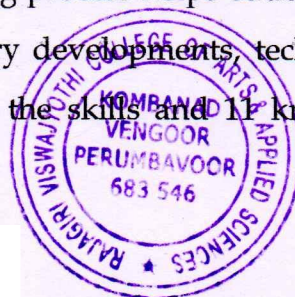
Program Outcomes (PO)

Program Outcomes (PO) refer to the specific knowledge, skills, and attributes that students are expected to acquire upon completing an entire academic program or course of study. These outcomes are typically defined by educational institutions to reflect the overarching goals and objectives of a particular program. Program Outcomes are crucial components of Outcome-Based Education (OBE) and play a significant role in shaping the curriculum, assessment methods, and overall educational experience. They provide a clear roadmap for what students should achieve by the end of their academic journey, ensuring that the education provided is comprehensive and aligned with the intended learning objectives. Program Outcomes are often formulated in consultation with industry experts, accrediting bodies, and other stakeholders to ensure that graduates are well prepared for the demands of their chosen field or profession. Regular assessment and evaluation of Program Outcomes contribute to continuous improvement in educational offerings and help maintain the relevance and quality of academic programs.

Program Specific Outcome (PSO)

Program Specific Outcomes (PSOs) serve as targeted benchmarks within Outcome-Based Education (OBE), concentrating on the specialized knowledge and skills relevant to a specific branch or specialization within an academic program. Unlike broader Program Outcomes (PO), PSOs provide a more detailed and focused perspective on what students are expected to achieve in a particular area of study. These outcomes are integral to shaping the curriculum, assessment strategies, and educational experience within that specialization.

Regular assessment and evaluation of PSOs contribute to the continuous improvement of educational programs. This ongoing process helps educators refine and adapt the curriculum to stay abreast of industry developments, technological advancements, and other changes that may impact the skills and knowledge required in the



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specialized field. By incorporating PSOs, academic institutions can offer tailored and relevant educational experiences that better prepare students for success in their chosen specialization within the broader academic program.

Course Outcomes (CO)

Course Outcomes (CO) are specific, measurable statements that articulate the expected knowledge, skills, and abilities a student should acquire by the end of a particular course. In Outcome-Based Education (OBE), COs serve as a critical component in designing, implementing, and assessing individual courses within a program. These outcomes are essential for providing clarity about the educational objectives of a course and guiding both instructors and students throughout the learning process.

Key features of Course Outcomes include the use of action verbs to describe observable behaviours or performances, making outcomes specific and measurable. COs are typically aligned with Program Outcomes (PO) and may contribute to achieving broader educational goals at the program level.

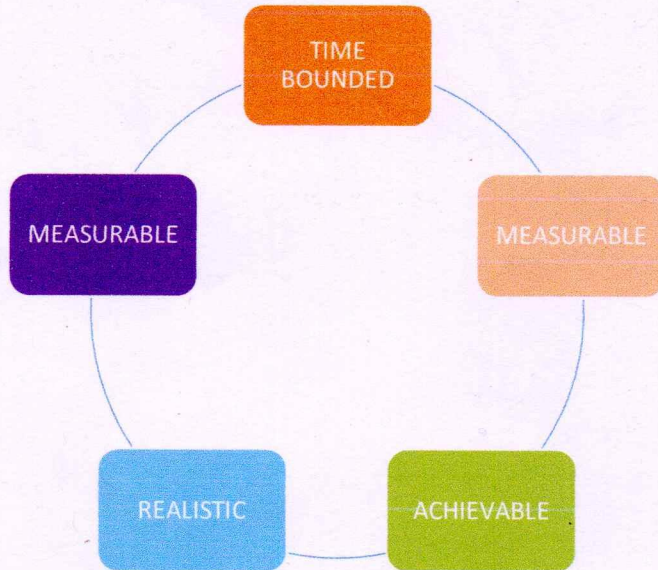
The process of defining Course Outcomes involves careful consideration of the course content, instructional methods, and assessment strategies. COs provide a framework for instructors to structure their teaching, ensuring that students are progressing toward achieving the intended learning objectives. Assessment methods, such as exams, projects, or presentations, are designed to evaluate students based on these specific outcomes.

Regular assessment and feedback on Course Outcomes contribute to the continuous improvement of instructional methods and the overall effectiveness of the course. As students achieve the specified outcomes, instructors can make informed decisions about adjusting teaching strategies, refining content delivery, and enhancing the learning experience for future cohorts.




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RULES TO DEVELOP CO'S



OUTCOME BASED EDUCATION

We have promised, the student should be able to KNOW and DO at the:




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Bloom's Taxonomy

Bloom's Taxonomy, developed by Benjamin Bloom and a team of educational psychologists in the 1950s, is a widely used framework for classifying educational objectives and cognitive skills. The taxonomy consists of six hierarchical levels, each representing a different order of thinking that learners can engage in.

The first level is "Remembering," which focuses on basic recall and recognition of information. This involves the ability to memorize facts, terms, and fundamental concepts. Learners at this stage demonstrate their capacity to retrieve previously learned material.

Moving up the hierarchy, the second level is "Understanding." Here, learners are required to comprehend the meaning of information. This level goes beyond mere recall and emphasizes the ability to explain ideas or concepts in one's own words, indicating a deeper understanding of the material.

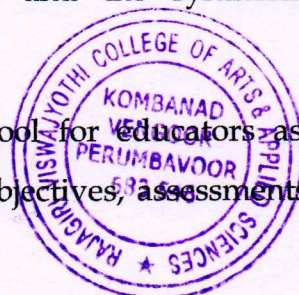
The third level is "Applying," which involves using knowledge and understanding to solve problems or apply concepts in new situations. This level emphasizes the practical application of learned information, testing the ability to transfer knowledge to different contexts.

The fourth level is "Analysing," where learners are required to break down information into its components to understand relationships and organizational structures. This level encourages the examination and interpretation of information rather than mere application.

"Evaluating" is the fifth level, focusing on critical thinking and judgment. Learners at this stage assess the value or significance of information, ideas, or theories. It involves making informed judgments and choices based on evidence and criteria.

Finally, the sixth level is "Creating." This highest order of thinking involves the ability to synthesize information and generate new ideas or products. Learners at this level demonstrate creativity, originality, and the synthesis of previously acquired knowledge.

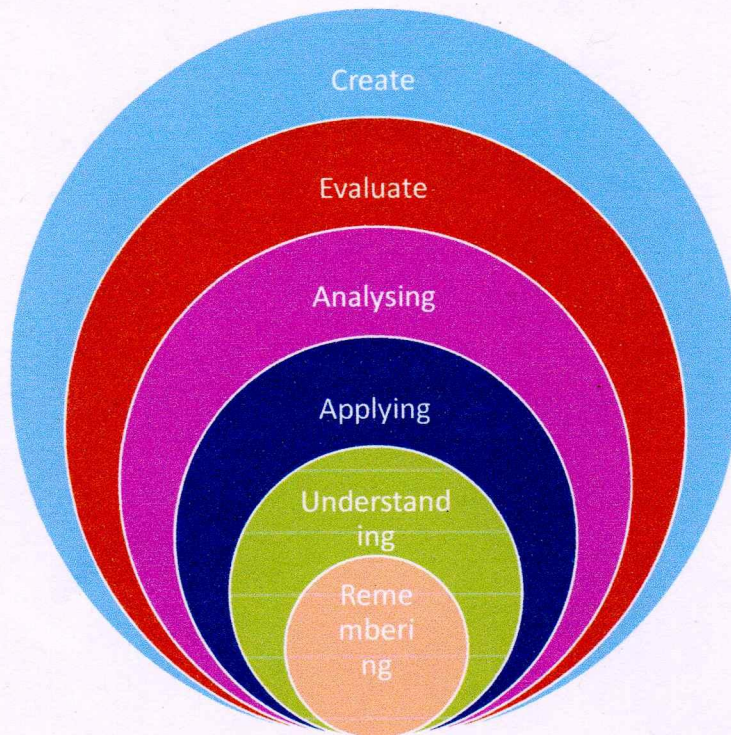
Bloom's Taxonomy is a valuable tool for educators as it provides a structured framework for designing learning objectives, assessments, and activities that target



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different levels of cognitive complexity, promoting a comprehensive and progressive approach to education.

Blooms Taxonomy Levels



The sample list of action words that can be used when creating the expected student learning outcomes related to critical thinking skills in a course

| Lower Order of Thinking (LOT) | | | Higher Order of Thinking (HOT) | | |
|-------------------------------|-------------------|--------------|--------------------------------|-----------------|---------------|
| Remember | Understand | Apply | Analyze | Evaluate | Create |
| Define | Explain | Solve | Analyse | Reframe | Design |
| Describe | Describe | Apply | Compare | Criticize | Create |
| List | Interpret | Illustrate | Classify | Judge | Plan |
| State | Summarise | Calculate | Distinguish | Recommend | Formulate |
| Match | Compare | Sketch | Explain | Grade | Invent |
| Tabulate | Discuss | Prepare | Differentiate | Measure | Develop |



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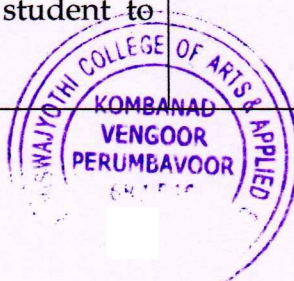
METHODOLOGY OF CO MAPPING

RVCAS places great importance on the evaluation of attainment of POs and PSOs, which is rigorously done through distinct mechanisms. Two distinct strategies are employed to validate Outcome Based Education, utilizing both direct and indirect methods.

In the initial stage, the Course Outcomes (COs) are mapped meticulously with their corresponding Programme Outcomes (POs) and Programme Specific Outcomes (PSOs). This mapping process provides a mean value, which offers insight into the alignment between COs, POs, and PSOs.

CO-PO Mapping Guidelines Most of the time, the appropriate keyword of PO and CO is sufficient for mapping. The various mapping levels for the COs and POs mapping is assigned on a four-point scale: '-' is No Correlation, '1' is Slight Correlation (Low level), '2' is Moderate Correlation (Medium level) and '3' is Substantial Correlation (High level). In order to complete the CO-PO articulation matrix, the first step is to identify the keywords of POs/PSOs to each CO and then make a corresponding mapping table assigning correlation levels at the corresponding cell. These correlation level to CO-PO matrix can be assigned as given in Table below:

| Action verb/ Keywords Used in Writing COs | Mapping Level |
|---|---------------|
| Keywords/action verb of the Course Outcome is not related to the action verb of Program Outcomes | '-' |
| Part of PO is reflected through keywords/action verbs of CO | '1'(LOW) |
| Major part of PO is reflected through keywords/action verbs and moderate level performance is expected from student to achieve CO | '2'(MEDIUM) |
| Exact action verb of PO and critical performance expected from student to achieve CO | '3'(HIGH) |



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Attainment of POs and COs are evaluated

The second stage involves the validation of Course Outcomes against Programme Outcomes and Programme Specific Outcomes through the examination system. The cognitive levels of each course is gauged based on Revised Bloom's Taxonomy. Students' ability to remember and understand is assessed using methods such as Multiple-Choice Questions, Short Answer Questions, Quizzes, Snap Tests, and Oral Examinations. Furthermore, we evaluate their ability to apply, analyse, evaluate, and create through Essay Type Questions, Assignments, Practical Examinations, Field Reports, Internships, and Project Work.

To determine the examination attainment levels of the courses, RVCAS has established a threshold value system. The students are categorized into three groups: those scoring between 40 to 49 percent (weighted as 1), 50 to 59 percent (weighted as 2), and 60 percent and above (weighted as 3) for both Continuous Internal Assessments and Summative Examinations. Both Continuous Internal Assessments and Summative Examinations carry equal weight, each valued at 0.5. The examination attainment of Course Outcomes is then calculated as the sum of the Continuous Internal Assessment weightage multiplied by the CIA threshold value and the Summative weightage multiplied by the Summative Examinations' threshold value ($0.5 \times \text{CIA threshold value} + 0.5 \times \text{Summative Examinations' threshold value}$).

In the third stage, the college evaluates the direct attainment of each Course Outcome (CO) concerning Programme Outcomes (PO) and Programme Specific Outcomes (PSOs) using the following formula:

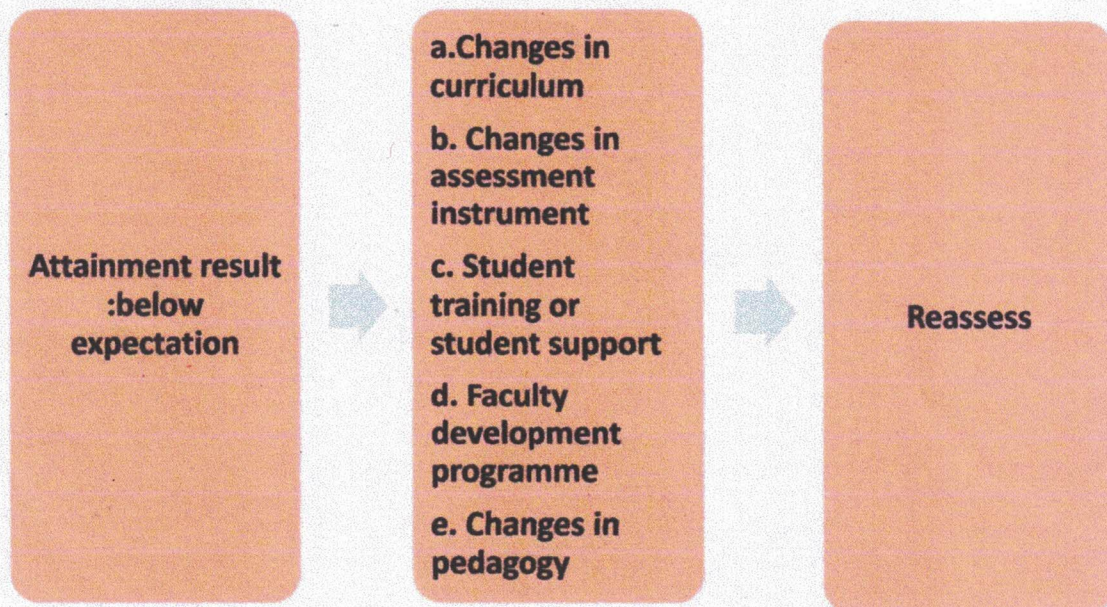
Direct attainment = Course Attainment Level * Mean value of the Concerned PO or PSO. In the indirect method, the alignment of Course Outcomes is validated with Programme Outcomes and Programme Specific Outcomes through a feedback mechanism. The feedback is collected at the exit level using 4-point scale



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Finally, the overall attainment is calculated using the following formula:

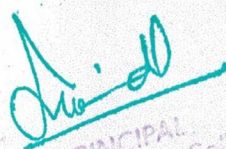
$$\text{Overall attainment} = [(\text{Assumed Test Weightage} * \text{Direct Attainment Value}) + (\text{Assumed Feedback Weightage} * \text{Feedback Value})]$$



In summary, RVCAS College employs a thorough approach to evaluate and validate Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) through direct and indirect methods. With a clear framework for assessing student performance and a commitment to transparency through shared results, the institution ensures continuous improvement in its educational programs. The proactive efforts of the Internal Quality Assurance Cell (IQAC) further strengthen the college's dedication to excellence in education.




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