UNIT 4

ASSESSMENT PRACTICES IN INCLUSIVE SCHOOL

INCLUSIVE SCHOOL

- ► An inclusive school is one that provides a supportive and welcoming environment for all students, regardless of their background, abilities, or needs.
- ▶ 1. Diverse Learning Environment: Students from different cultural, linguistic, and socio-economic backgrounds are educated together.
- ▶ 2.Accessibility: Facilities and resources are accessible to students with disabilities, ensuring that physical barriers do not hinder participation.
- ▶ 3. Differentiated Instruction: Teaching methods and materials are adapted to meet the diverse learning needs of all students.
- ▶ 4.Support Services: Specialized support, such as speech therapy, occupational therapy, and counseling, is available to students who need it.
- ► 5. Professional Development: Ongoing training and development for teachers and staff on inclusive education practices.

INCLUSIVE ASSESSMENT

- ▶ Inclusive assessment refers to evaluation practices that accommodate the diverse needs and abilities of all students, ensuring that every learner has an equal opportunity to demonstrate their knowledge and skills.
- ▶ 1. Equity: Providing fair opportunities for all students to demonstrate their learning, regardless of their background, abilities, or disabilities.
- 2.Accessibility: Ensuring that assessment tasks are designed in ways that all students can understand and complete.
- ▶ 3.Flexibility: Offering various methods for students to demonstrate their understanding and skills.
- ▶ 4. Transparency: Making assessment criteria clear and understandable to all students.

DIFFERENTIATED ASSESSMENT

- ▶ Differentiated assessment refers to the practice of modifying assessments to cater to the diverse learning styles, abilities, and needs of all students.
- ► The goal is to provide each student with an equitable opportunity to demonstrate their understanding and mastery of the subject matter.
- ► This approach acknowledges that students learn and express their understanding in different ways and at different paces.
- ▶ It involves offering varied types of assessment that allow students to showcase their knowledge and skills in a manner that best suits their strengths.

PRINCIPLES

- ▶ 1.Fairness and Equity: Ensuring that every student has an equal opportunity to succeed.
- Adjusting assessments to meet the diverse needs of students, so all can demonstrate their learning without bias.
- ▶ 2. Variety in Assessment Methods: Using multiple forms of assessment to accommodate different learning styles (e.g., visual, auditory, kinesthetic).
- ▶ 3.Student-Centered:- Focusing on the individual needs, interests, and abilities of students.
- Allowing students some choice in how they are assessed to engage them more deeply in the learning process.
- ▶ 4. Continuous and Formative: Regularly assessing student progress throughout the learning process.
- Using formative assessments to provide ongoing feedback and guide instruction.

- ► 5.Flexibility: Being adaptable in assessment design and implementation.
- Offering different formats or settings for assessments based on individual student needs (e.g., extended time, quiet environment).
- ▶ 6.Inclusivity: Incorporating assessments that are accessible to all students, including those with disabilities.
- Using assistive technologies and alternative formats where necessary.
- ▶ 7. Collaboration: Involving students in the assessment process by seeking their input and allowing for self-assessment and peer assessment.
- Collaborating with other educators and specialists to design and implement effective differentiated assessments.

CULTURALLY RESPONSIVE ASSESSMENT

- ► Culturally responsive assessment involves recognizing and valuing the diverse cultural backgrounds of students while ensuring that assessment practices are fair, inclusive, and reflective of all students' experiences and knowledge.
- ▶ Key Principles
- ▶ 1. Cultural Awareness:
- Understand the cultural backgrounds, values, and communication styles of your students.
- ▶ 2. Equity and Fairness:
- Ensure assessments are accessible to all students, regardless of their cultural or linguistic background.
 Teachers need to avoid cultural biases in test content and format.

- **▶** 3. Inclusivity:
- Incorporate diverse cultural perspectives and examples in assessments.
- **▶ 4. Language Considerations:**
- Provide assessments in students' first languages when appropriate, or offer translation and interpretation services.
- **▶** 5. Feedback and Reflection:
- Provide constructive, culturally sensitive feedback that helps students understand their strengths and areas for improvement.

WAYS AND MEANS TO CREATE CULTURALLY RESPONSIVE ASSESSMENT

- Socio-economic status
- Native language
- Learning style

WAYS AND MEANS TO CREATE CULTURALLY RESPONSIVE ASSESSMENT

- 1. Understanding Cultural Contexts
- Get to Know Your Students -
- -Reflect on Your Own Biases
- ▶ 2. Diversified Assessment Methods
- Use Multiple Assessment Formats
- Allow for Student Choice
- 3. Inclusive Assessment Design
- Culturally Relevant Content
- Language Accessibility
- ▶ 4. Feedback and Improvement
- Provide Culturally Sensitive Feedback

USING TESTS FOR LEARNER APPRAISAL

- ▶ Using tests for learner appraisal provides several benefits that enhance the educational process, for both students and educators. Here are the primary reasons why tests should be used for learner appraisal:
- ▶ 1. Measuring Student Understanding and Progress
- 2. Diagnosing Learning Gaps and Needs
- 3. Providing Feedback and Motivating Students
- ▶ 4. Preparation for Future Assessments

ACHIEVEMENT TEST

- ► An achievement test is a standardized test designed to measure a student's knowledge, skills, and abilities in a specific subject area.
- ► These tests are used to assess how well students have learned the material that has been taught in the curriculum.
- ► Achievement tests can be used for various purposes, including evaluating student progress, diagnosing learning gaps, informing instruction, and measuring the effectiveness of educational programs.

STEPS IN CONSTRUCTING AN ACHIEVEMENT TEST 1. PLANNING THE TEST

- **▶** Define the Purpose
- **▶** Identify Learning Objectives
- ► Test Length and Time
- ▶ Decide the content area
- ► Fix the total mark
- ▶ Decide the types of test items
- decide the number of items in each type

2. DETERMINING THE DESIGN OF THE TEST

- ► Assign weightage to the instructional objectives
- Assign weightage to the content areas
- Assign weightage to different forms of test items
- Assign weightage to difficulty levels

ASSIGNING WEIGHTAGE TO THE INSTRUCTIONAL OBJECTIVES

S. No.	Instructional Objectives	Marks Allotted	% of Marks Assigned					
7.	Knowledge	10	20					
2.	Understanding	20	40					
3.	Application	15	30 .					
4.	Skill .	5	10					
	Total	50	100					

ASSIGNING WEIGHTAGE TO THE CONTENT

AREA

S. No.	Content Units	Marks Allotted	% of Marks Assigned				
1.	Unit I	5	10				
2.	Unit II	6	12				
3.	Unit III	18	36				
4.	Unit IV	5	10				
5.	Unit V	1.0	20				
6.	Unit VI	6	12				
	Total	50	100				

ASSIGNING WEIGHTAGE TO DIFFERENT FORMS OF TEST ITEMS

S. No.	Form of Test-Item	No. of Test- Items	Allotted Marks	% of Weightage given	Time required to answer (in minutes)			
1:	Essay Type Question		10	20	20			
2.	Paragraph Question	2	10	20	10			
3.	Very Short Questions	5	5	10	5			
4.	Objective Type Question							
	a) Multiple Choice	10	10	20	10			
	b) Matching	5 (Premises)	5	10	5			
	c) True/False	5	5	. 10	5			
	d) Fill up the blank	. 5	5	10	5			
	Total	33	50	100	60			

ASSIGNING WEIGHTAGE TO DIFFICULTY LEVELS

S. No.	Difficulty level of Test-items	Marks Allotted	% of Marks Assigned				
1.	Difficult Questions	10	20				
2.	Questions with 'average difficulty level'	30	60				
3.	Easy Questions	10	20				
	Total	50	100				

3. PREPARING THE BLUEPRINT OF THE TEST

- ▶ A blueprint, in the context of test construction, is a detailed plan or guide that outlines the structure and content of an achievement test.
- ▶ It serves as a framework to ensure that the test is comprehensive, balanced, and aligned with the learning objectives.
- ▶ The blueprint helps in organizing the content areas, specifying the types of questions to be included, and determining the weight of each section, ensuring that the test fairly and accurately measures student achievement.

COMPONENTS OF & BLUEPRINT

- ▶1. Content Areas
- ▶ 2. Learning Objectives
- ▶ 3. Question Types
- ▶ 4. Cognitive Levels
- ▶ 5. Weighting and Scoring

IMPORTANCE OF A BLUEPRINT

- ▶ 1. Alignment with Objectives: Ensures that the test is aligned with the learning objectives and curriculum standards.
- ► 2. Balanced Assessment: Helps in creating a balanced test that covers all relevant content areas and skills.
- ▶ 3. Fairness and Reliability: Contributes to the fairness and reliability of the test by ensuring consistent coverage and appropriate weighting.
- ▶ 4. Guidance for Item selection: Provides clear guidance for item selection, ensuring that the test items are relevant and appropriately distributed.
- ▶ 5. Transparency and Accountability: Makes the test development process transparent and accountable, as stakeholders can see how the test aligns with educational goals.

Blue print

BLUE PRINT - PHYSICS - Higher Secondary - Second Year

(The question paper setter should have a thorough knowledge about the design of the paper)

Time: 3 Hours

Total marks including options 230
 Total marks to be answered
 150

	OBJECTIVES	KNOWLEDGE			UNDERSTANDING			APPLICATION				SKILL				TOTAL		
UNIT		MCQ	VSA	SA	LA	MCQ	VSA	SA	LA	MCQ	VSA	SA	. LA	MCQ	VSA	SA	LA	IUIAL
1.	Electrostatics	1(1)	3(1)	11-11	-	1-1	124	5(1)	10(1)	1(3)	3(1)	-	-	-	-	-	-	25(8)
2.	Current electricity	1(1)	3(2)	5(1)	7-11	1 - 1	3(1)	5(1)					-			-	-	20(6)
3.	Effects of electric current		- //	7-	10(1)		3(1)	5(1)	-	1(2)	-	-	-	-	-	-	-	20(5)
4.	Electromagnetic induction and alternating current	1(1)		5(i)	- 1		3(1)	-	10(1)	1(3)	3(1)		11-11		-	-	-	25(8)
5.	Electromagnetic waves a nd wave optics	1(1)			10(1)		3(2)	5(1)		1(3)	-		-	-		-	-	25(8)
6.	Atomic physics		774	5(1)	11-11				10(1)	1(4)	3(2)	1-		1	-	-	-	25(8)
7.	Dual nature of radiation and matter - Relativity			5(1)				5(1)		1(2)	3(1)						-	15(5)
8.	Nuclear physics	1(2)	774		10(1)	112.	3(1)	5(1)*		1(2)	3(1)	-	-	-	PAGE 1	-	-	25(8)
9.	Semi conductor devices and their applications	1(2)		5(1)	10(1)	-1	3(1)			1(1)	3(2)				3(1)	-	-	30(9)
10.	Communication Systems		1/44/1	-	1	-	~	1	10(1)	1(2)	3(1)	-	-	*	-	5(1)	-	20(5)
- 72		1(8)	3(3)	5(5)	10(4)	-	3(7)	5(6)	10(4)	1(22)	3(9)				3(1)	5(1)	- 2	30(70)

^{*} Two problems are given with internal choice,

4. WRITING THE TEST ITEMS AND ASSEMBLING QUESTION PAPER

- □ Clarity and Precision: Write clear, concise, and unambiguous questions. Avoid complex wording that could confuse students.
- ▶ Relevance: Ensure that each question aligns with the learning objectives and is relevant to the content taught.
- Review and Revision: Have colleagues review the test items for clarity, relevance, and potential biases. Revise items based on feedback.
- ► Logical Sequence: Arrange questions in a logical order, typically from easier to harder, to build student confidence.
- ► Clear Instructions: Provide clear and concise instructions for each section of the test.
- ► Formatting: Ensure the test paper is well-organized and easy to read. Use headings, numbering, and spacing effectively.

SCORING KEY:

- ▶ 1. Objective-Based: A scoring key typically refers to a predefined set of correct answers or responses to specific questions or tasks in an assessment.
- ▶ 2. Used in Objective Assessments: It is commonly used in assessments that have clear right or wrong answers, such as multiple-choice tests or certain types of practical assessments (like coding exercises or math problems).
- ▶ 4. Example: In a multiple-choice test, the scoring key lists the correct option for each question, allowing quick and objective evaluation.

MARKING SCHEME

- ▶ 1. Criteria-Based: A marking scheme is broader and refers to a structured set of guidelines or criteria used to assess performance across various types of tasks or assessments.
- ▶ 2. Used in Subjective Assessments: It is commonly employed in assessments that involve subjective judgment, such as essays, presentations, or projects.
- ▶ 3.Evaluates Quality: The marking scheme outlines what constitutes good performance across multiple dimensions, such as content knowledge, clarity of expression, and critical thinking.
- ▶ 4. Example: In an essay assessment, a marking scheme might include criteria like thesis development, use of evidence, analysis, and organization, with specific descriptors for different levels of achievement.

DI&GNOSTIC TEST

- ▶ A diagnostic test is an assessment tool used primarily to identify strengths and weaknesses in a person's knowledge, skills, or abilities within a specific area or subject.
- ▶ 1. Identifying Learning Gaps: Achievement tests provide a snapshot of what students have learned up to a specific point. Diagnostic tests help teachers identify specific areas where students may have gaps in their understanding or skills. This allows for targeted remediation and support.
- ▶ 2. Personalizing Instruction: Diagnostic tests provide detailed information about individual student strengths and weaknesses.
- ▶ 3. Improving Instructional Planning: By analyzing diagnostic test results, teachers can adjust their instructional plans for future lessons or units.

STEPS-DIAGNOSTIC TEST

- ▶1. Planning
- ▶2. Preparing the Test Items
- ▶3. Assembling the Test Items
- ▶ 4. Providing Clear Instructions
- ▶ 5. Providing the Scoring Key and Marking Schemes
- ► Taking-up remedial measures

ITEM ANALYSIS

- Item analysis is a valuable process in evaluating the effectiveness and quality of test items after administering a diagnostic test.
- It involves examining each test question to determine how well it differentiates between high and low performers and how difficult each question is.

KEY STEPS OF ITEM ANALYSIS

- ▶ 1. Collect Data: Gather the test responses from all students. Ensure you have information on which items were answered correctly or incorrectly by each student.
- ▶ 2. Calculate Item Difficulty (P-value): The item difficulty index indicates the proportion of students who answered the item correctly.
- ▶ P-value close to 1 means the item is easy; a P-value close to 0 means the item is difficult. Generally, a P-value between 0.3 and 0.7 is considered ideal.
- **▶** 3. Calculate Item Discrimination (D-index):
- ► Item discrimination measures how well an item differentiates between high and low scorers.
- ► To calculate, divide students into high and low groups (typically the top 27% and bottom 27% based on overall test scores).

EXAMPLE OF ITEM ANALYSIS

- Suppose you administered a 10-item diagnostic test to 100 students. Here's a simplified example of item analysis for one item:
- Item 3:
- Number of correct responses: 70
- P-value: \(\frac{70}{100} = 0.70 \)
- High group (27 students): 25 correct
- Low group (27 students): 10 correct
- D-index: \(\frac\{25 10\}\{27\} = 0.56\)
- ► P-value of 0.70 indicates the item is moderately easy.
- ► D-index of 0.56 indicates good discrimination.

QUALITIES OF A GOOD TEST

- ► A good test possesses several essential qualities that ensure it effectively measures what it is intended to measure, providing reliable and valid results.
- ▶ 1. Validity Validity refers to the extent to which a test measures what it claims to measure.
- ▶ 2. Reliability- Reliability refers to the consistency of test results over time and across different conditions.
- ▶ 3. Practicality- A practical test is easy to administer, score, and interpret.
- ▶ 4. Fairness- A fair test is free from bias and provides an equal opportunity for all test-takers to perform to the best of their abilities.

- ▶ 5. Objectivity- Objectivity refers to the test's ability to yield the same results regardless of who administers or scores it.
- ▶ 6. Comprehensiveness- A comprehensive test covers all relevant content areas and skills it is intended to measure, providing a complete assessment of the subject or construct.
- ▶ 7. Discriminatory Power- A good test can distinguish between different levels of ability or performance among test-takers.
- ▶ 8. Clarity- Test instructions and items should be clear and unambiguous.

FAIRNESS IN ASSESSMENT

- ► Fairness in assessment is a crucial aspect of educational practices to ensure that all students are evaluated equitably and justly.
- ▶ 1.The content should align with the learning objectives and curriculum standards.
- 2.Scoring should be objective and standardized.
- ▶ 3.Clear guidelines and rubrics help students understand what is expected of them.
- ▶ 4.Assessments should accommodate the diverse needs of students, including those with disabilities or language barriers.

STRATEGIES FOR FAIR ASSESSMENT

- ▶ 1.Use Multiple Assessment Methods
- ► 2.Administer assessments under similar conditions for all students.
- ▶ 3. Provide training for teachers on creating and administering fair assessments.
- ▶ 4. Having clearly stated learning outcomes.
- ▶ 5.What are taught students alone should find place in assessment.
- ▶ 6.Interpret assessment results appropriately.

INCLUSIVE PRACTICES IN THE ASSESSMENT OF DIFFERENTLY ABLED STUDENTS

- ▶ Inclusive practices in the assessment of differently abled students ensure that these students are evaluated in a manner that accurately reflects their knowledge and skills, rather than their disabilities. These practices aim to create an equitable assessment environment that provides all students with the opportunity to demonstrate their learning.
- ► Alternative Formats: Provide assessments in multiple formats (e.g., oral, written, visual) to accommodate different disabilities.
- Assistive Technology: Use technology such as screen readers, speech-to-text software, and other adaptive devices to help students access and complete assessments.
- ► Extended Time: Allow additional time for students who need it to complete assessments.
- ► Scribe Services: Offer the assistance of a scribe for students who have difficulty writing or typing.
- ▶ Visual Supports: Include diagrams, charts, and other visual aids to support understanding.
- ► Work with Specialists: Collaborate with special education professionals to develop appropriate assessment strategies.
- ► Educator Training: Provide training for teachers on inclusive assessment strategies and the use of assistive technologies.

ASSESSING THE LEARNING OUTCOMES OF VISUALLY IMPAIRED STUDENTS

- ▶ Braille: Provide assessments in Braille for students who read Braille.
- ► Large Print: Offer large print versions of written assessments for students with low vision.
- ► Audio Format: Use audio recordings for test instructions and questions.
- Screen Readers: Utilize screen reader software that reads text aloud, helping students navigate digital assessments.
- ► Speech-to-Text: Implement speech-to-text software for students who prefer to speak their answers.
- ▶ Scribes and Readers: Offer the assistance of a scribe to write down answers dictated by the student or a reader to read the questions aloud.
- ▶ Oral Assessments: Conduct oral exams where students can verbally express their knowledge and understanding.

ASSESSING THE LEARNING OUTCOMES OF AUDITORILY IMPAIRED STUDENTS

- ▶ Sign Language Interpreters: Use sign language interpreters during oral assessments or instructions to ensure students understand the material.
- ► Written Instructions and Questions: Provide written versions of all oral instructions, questions, and prompts.
- ► Captioning: Use captioning for videos and audio materials to provide visual text that corresponds to the spoken content.
- ▶ Visual Aids: Incorporate diagrams, charts, and other visual aids to support understanding and provide context.
- ► Written Assessments: Use written assessments instead of oral ones to evaluate students' knowledge and skills.
- Minimize Background Noise: Ensure the assessment environment is free from background noise and distractions.
- ► Seating Arrangements: Arrange seating to allow for clear visual lines of sight for students who rely on lip-reading or sign language.

ASSESSING THE LEARNING OUTCOMES OF STUDENTS WITH INTELLECTUAL DISABILITIES

- ▶ Performance-Based Assessments: Use tasks that require students to demonstrate their skills in real-world contexts (e.g., cooking, shopping, personal hygiene).
- Daily Living Skills: Assess abilities in tasks such as dressing, feeding, and personal care.
- ► Social Skills: Evaluate interpersonal skills, communication, and the ability to interact with others.
- ► Simplified Instructions: Use clear, concise language and step-bystep instructions.
- ► Visual Supports: Incorporate pictures, symbols, and other visual aids to help students understand the tasks.
- ► Extended Time: Provide additional time for students to complete assessments.

LEARNING DISABILITIES

- ▶ Dyslexia
- Difficulty reading accurately and fluently
- Problems with spelling and decoding words
- ► Challenges with phonological processing (connecting letters and sounds)
- Dysgraphia
- Poor handwriting and fine motor skills
- Difficulty with spelling and organizing thoughts on paper
- Problems with grammar and punctuation

LEARNING DISABILITIES

- **▶** Dyscalculia
- ▶ Difficulty understanding numbers and mathematical concepts
- Problems with arithmetic operations and number sense
- Challenges with spatial awareness and organization of numbers
- Attention Deficit Hyperactivity Disorder (ADHD)
- Inattention (difficulty sustaining focus, easily distracted)
- Hyperactivity (excessive movement, fidgeting)
- Impulsivity (acting without thinking, difficulty waiting turn)

FORMATIVE ASSESSMENT FEEDBACK

- Timely: Feedback should be provided promptly to allow students to apply it to their current learning process.
- Specific and Actionable: Feedback should be clear and provide specific guidance on how to improve. General comments like "good job" or "needs work" are less helpful than detailed advice.
- Constructive: Highlight both strengths and areas for improvement. This helps students understand what they are doing well and what needs more work.
- Personalized: Tailor feedback to the individual student's needs, considering their learning style, strengths, and areas for growth.

SUMMATIVE ASSESSMENT FEEDBACK

- ► Summarized: Provide a summary of the student's performance, highlighting key strengths and areas for future improvement.
- ► Comprehensive: Ensure feedback covers all the main criteria and objectives of the assessment.
- ▶ Balanced: Offer a balanced view that includes positive aspects as well as constructive criticism.
- ▶ Reflective: Encourage students to reflect on their performance and think about how they can apply what they've learned to future tasks.
- ► Goal-Oriented: Focus on how the student can use the feedback to set goals for future learning and improvement.

THE FEEDBACK PROCESS

- Define Objectives
- **▶** Gather Information
- Delivery (Choose the Right Medium)
- Structure the Feedback: Start with Positives, Be Specific, Offer Solutions
- Encourage Dialogue- Clarify and Discuss
- Actionable Steps
- ► Follow-Up- Monitor Progress
- Provide Support
- from the recipient on the feedback process itself to identify areas for improvement.

Thank You