

Department of Educational Development,
HEC REVISED CURRICULUM FOR EDUCATION DEGREE PROGRAMS
B. ED 4 -YEAR
SCHEME OF STUDIES
BACHELOR OF EDUCATION (B. ED)

PROGRAM DESCRIPTION

The role of a teacher in shaping the future of society has an extraordinary significance. They not only impart knowledge but also inspire, motivate, and guide students in their developmental journey. To perform this multifaceted role efficiently and effectively, they must possess a strong foundation of content knowledge, pedagogical skills, certain level of professionalism, and a variety of competencies tailored to meet diverse student needs across different educational levels. The program's holistic approach ensures that graduates will not only be knowledgeable in their subject areas but also proficient at engaging and inspiring students from diverse backgrounds. To address all these concerns and to make teaching a profession of choice, B.Ed. (12+4) program was developed in 2006. By cultivating a strong foundation in these areas, the B.Ed program focuses to produce skilled, reflective, and compassionate educators who can make a meaningful impact in the lives of their students and community at large. The changing landscape of teaching and learning, and the increasing demand of well-trained and committed teachers, are making this degree program not just an academic pursuit but a vital contribution to societal development. The B.Ed program provides a comprehensive curriculum that covers a wide range of subjects including mathematical reasoning, science, language, social sciences, and the arts. This breadth of knowledge ensures that future educators are well-prepared to teach various subjects at different educational levels, from early years to higher levels. In an ever evolving world where new information and discoveries are made daily, teachers must stay updated with the latest developments in their respective fields. The B.Ed curriculum incorporates contemporary educational resources, research methodologies, and technological advancements, enabling educators to provide their students with the most accurate and engaging content. The pedagogical training aspect of the B.Ed program is designed to enhance teachers' understanding of how students learn, the various learning styles and modalities, and the best practices for fostering an inclusive and positive learning environment. Prospective teachers engage in hands-on experiences, including school observations, simulations, and teaching practicums as practice teaching, that allow them to apply their theoretical learning in real classroom settings. Learning how to design effective lesson plans, assess student performance, and adapt instruction based on student needs are crucial components of pedagogical training. Furthermore, the integration of technology into pedagogy is a key focus of the B.Ed program, preparing educators to leverage digital tools to enhance learning and engagement. The B.Ed degree program instills a sense of ethical responsibility, accountability, and commitment to lifelong learning. Educators are encouraged to reflect on their practices, engage in professional development, and collaborate with colleagues to

improve their skills and support one another. Future teachers learn the importance of building relationships with students, parents, and the broader community. This involves effective communication skills, cultural competence, and an understanding of the social and emotional factors that influence learning. An emphasis on equity and inclusivity ensures that all students, regardless of their backgrounds or abilities, receive the attention and support they need to succeed. In the clinical model of developing teachers as professionals, it is important for that prospective teacher to gain adequate insight into the ground realities of school and classrooms through their attachments in schools and communities. This rich experience of practice enables prospective teachers to bring a positive attitude in classroom teaching and understanding a plurality of cultures. This breakthrough is expected to facilitate the process of multiculturalism and pluralism in our education system to bring about social transformation in the society. Hence, a blend of content and pedagogical courses has been provided in the scheme of studies – the two years of graduate courses and two years long professional courses to prepare prospective teachers as professionals in education. In addition, the revised curriculum is based on the principle of choice and flexibility, allowing different entry points and the accumulation of credits for the two year degree 3 HEC CURRICULUM BOOKLET – EDUCATION 2025 courses to be transferred to join the 4 year B.Ed program. The revised Bachelor of Education (B.Ed) is designed in accordance with the provisions of the HEC Undergraduate Education Policy V 1.1. to provide students with a comprehensive understanding of teaching and learning process.

STANDARD NOMENCLATURE

For the sake of standardization, all the undergraduate degree programs (NQF level 6 qualifications) in the discipline of Education shall only be offered with the title of “Bachelor of Education (B.Ed)” and henceforth, degree programs at equivalent level with same purpose and scope having different nomenclatures shall accordingly be renamed as Bachelor of Education (B.Ed) and specializations shall be reflected on transcripts only and not on degrees.

ELIGIBILITY AND ADMISSION CRITERIA

Higher Secondary School Certificate (involving 12 years of schooling) in any discipline or an Inter Board Coordination Commission (IBCC) equivalent qualification is the eligibility requirement for admission in the Bachelor of Education (B.Ed) four year degree program and Associate Degree Program in Education (ADE). The admitting university may set minimum eligibility scores and may conduct entry / admission test through its own testing body or an external testing services provider of repute as per the screening, admission and merit calculation criteria approved by its statutory bodies.

PROGRAM LEARNING OUTCOMES

By the completion of Bachelor of Education (B.Ed) degree program, the graduates will be able to: a) Demonstrate a comprehensive understanding of content knowledge, educational theories, instructional strategies, and assessment methods to effectively plan, deliver, and evaluate lessons that engage and support diverse learners. b) Apply differentiated student centered instructional techniques to accommodate varied learning styles, abilities, and backgrounds, ensuring all students can succeed academically and socially in an equitable environment to foster collaboration, critical thinking and problem solving skills. c) Exhibit a strong commitment to professional ethics, including respect, integrity, and confidentiality, while fostering an inclusive, equitable, and culturally responsive learning environment. d) Show a commitment to lifelong learning by staying

informed of current research, technological advancements, and innovations in education that enhance instructional effectiveness and contribute to professional growth.

Credit Hours 132 credit hours	
General Education Courses	34 credit hours (14 courses)
Major Education Courses	80 credit hours
Professional Courses Education (Compulsory/Fixed)	36 credit hours (12 courses)
class Observation and Practice Teaching (Practical/Fixed)	02+06 = 08 Credits (3 courses)
Pedagogy Courses (Compulsory/Fixed)	18 credit hours (06 courses)
Specialization Courses (Electives)	18 credit hours (6 courses) – (From Pool of Courses for Area of Specialization from Pool of Specializations)
Interdisciplinary Courses	12 credit hours (4 courses) (From Pool of Courses)
Internship	3 credit hours
Capstone Project/Thesis	3 credit hours
Program Duration	Minimum: 4 Years Maximum: 6 Years
Semester Duration	16-18 weeks for regular semesters (1-2 weeks for examination) 8-9 weeks for summer semesters (1 week for examination)
Course Load (per semester)	15-21 credit hours for regular semesters Up-to 9 credit hours for summer semesters (for remedial/deficiency/failure/repetition courses only)
3 Credit Hours (Theory)	3 classes (1 hour each) OR 2 classes (1.5 hour each) OR 1 class (3 hours) per week throughout the semester
1 Credit Hour (Lab / Field Work)	1 credit hour in laboratory or practical work would require lab / field contact of 3 hours per week throughout the semester.

Standard Scheme of Study for the program of Bachelor of Education (B.Ed) four-year degree program is given as under:

SEMESTER I

S. No	Course	Credit hr
1	Quantitative Reasoning – I	3
2	Human Nutrition (Natural Science)	3
3	Functional English	3
4	Applications of Information & Communication Technologies (ICT)	3
5	Professional Course Education I	3

6	Professional Course Education II	3
Total Credits (18)		

SEMESTER II

S. No	Course	Credit hr
1	Quantitative Reasoning – II	3
2	Social Sciences	2
3	Expository Writing	3
4	Professional Course Education III	3
5	Professional Course Education IV	3
6	Professional Course Education V	3
7	Fehm-e-Quran – I (for Muslim Students)	1
Total Credits (18)		

SEMESTER III

S. No	Course	Credit hr
1	Urdu (Arts & Humanities)	2
2	Islamic Studies * (Ethics for non-Muslim students)	2
3	Ideology & Constitution of Pakistan	2
4	Professional Course Education VI	3
5	Professional Course Education VII	3
6	Professional Course Education VIII	3
7	Pedagogy Course - I	3
8	Fehm-e-Quran – II (for Muslim Students)	1
Total Credits (19)		

SEMESTER IV

S. No	Course	Credit hr
1	Pakistan Studies	2
2	Civics & Community Engagement * a) Scouting OR Emergency Training b) Community Service	2
3	Entrepreneurship	2
4	Professional Course Education IX	3
5	Professional Course Education X	3
6	School Observation	2
7	Pedagogy Course – II	3
Total Credits (17)		

The student may Exit with Associate Degree in Education after completion of 04 Semesters in B.Ed four year degree program.

SEMESTER V

S. No	Course	Credit hr
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1	Interdisciplinary Course – I (Comparative Education)	3
2	Interdisciplinary Course – II (Guidance & counseling in schools)	3
3	Professional Course Education XI (research methods in Edu)	3
4	Pedagogy Course – III (Teaching of Urdu/ Teaching of Science)	3
5	Specialization Elective Course I	3
Total Credits (15)		

SEMESTER VI

S. No	Course	Credit hr
1	Interdisciplinary Course - III	3
2	Professional Course Education XII	3
3	Pedagogy Course - IV	3
4	Pedagogy Course - V	3
5	Specialization Elective Course II	3
Total Credits (15)		

SEMESTER VII

S. No	Course	Credit hr
1	Practice Teaching - I	3
2	Pedagogy Course - VI	3
3	Specialization Elective Course– III	3
4	Specialization Elective Course– IV	3
5	Capstone Project	3
Total Credits (15)		

SEMESTER VIII

S. No	Course	Credit hr
1	Practice Teaching - II	3
2	Interdisciplinary Course - IV	3
3	Specialization Elective Course– V	3
4	Specialization Elective Course– VI	3
5	Internship	3
Total Credits (15)		

- The university / offering department may offer any course in the broader category of “Natural Sciences” which should have relevance to the purpose of the degree program. The course of “**General Science / Environmental Science**” is suggestive one only. A detailed list of courses related to the **Natural Sciences is also given.**
- The university / offering department may offer any course in the broader category of “**Social Sciences**” including but not limited to a course of Psychology, Sociology, Anthropology etc. The course of “Sociology” is suggestive one only. A detailed list of courses related to the Social Sciences is also given.
- The university / offering department may offer any course in the broader category of “**Arts and Humanities**” including but not limited to a course of regional or international

language such as Chinese, Arabic, French, Spanish etc. or any other course such as Philosophy, History etc. The course of “History” is suggestive one only. A detailed list of courses related to the Arts and Humanities is also given.

List of Major Professional Courses (Mandatory for Education Programs in All Specializations)

1. Foundations of Education
2. Inclusive Education
3. Education for Sustainable Development
4. Educational Psychology
5. Research Methods in Education
6. Curriculum Development
7. Critical Thinking and Reflective Practices
8. Educational Assessment and Evaluation
9. School Management
10. Educational Policies and Plans of Pakistan
11. Contemporary Literacies
12. Teaching Profession

List of Major Pedagogy Courses

1. Teaching of English
2. Teaching of Urdu
3. Teaching of Art, Crafts and Calligraphy
4. Teaching of Mathematics
5. Teaching of Science
6. Teaching of Social Studies and Islamiat

Suggested List of Interdisciplinary Courses

The student has to choose 04 courses within below mentioned Interdisciplinary courses offered by HEI. HEIs are at liberty to add more courses to the list) The below highlighted courses will be offered to students based on the availability of faculty.

1. Education, Power and Politics
2. Economics of Education
3. Health and Safety Education
4. Child Abuse and Safety
5. Education in Pakistan
6. Islamic Education
7. Sociology of Education
8. History of Education
9. Media Education
10. Science, Technology and Society
11. Comparative Education
12. Guidance and Counselling in School
13. Production of Resource Materials
14. Human Growth and Development
15. Exceptional Children

16. Development of Individualized Education Plan
17. Family Problems and Interventions

Suggested List of Natural Science Courses

(The student has to choose 01 course within below mentioned courses offered by HEI)

1. General Science
2. Environmental Science
3. Public Health
4. Human Nutrition
5. General Mathematics

Suggested List of Social Science Courses

(The student has to choose 01 course within below mentioned courses offered by HEI)

1. Psychology
2. Philosophy
3. Economics
4. History
5. Political Science
6. Sociology
7. Social Work

Suggested List of Arts and Humanities Courses

(The student has to choose 01 course within below mentioned courses offered by HEI)

1. Urdu
2. Arabic
3. Persian
4. Statistics
5. Fine Arts
6. Journalism
7. Physical Education
8. Geography

Areas of Specialization (Tracks for Specialization Courses/Electives)

1. Early Childhood Care and Education
 2. Educational Research
 3. Educational Assessment
 4. Child Rights and Safety Education
 5. Educational Policy and Planning
 6. Curriculum Studies
 7. Educational Leadership and Management
 8. Educational Psychology
 9. Guidance and Counseling
 10. Inclusive Education
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| 11. | Literacy and Non-Formal Education |
| 12. | Online and Distance Learning |
| 13. | Quality Assurance in Education |
| 14. | Comparative Education |
| 15. | Teacher Professional Development |
| 16. | Mathematics Education |
| 17. | STEM Education |
| 18. | Islamic Education |
| 19. | Education for Sustainable Development |
| 20. | Educational Entrepreneurship |
| 21. | Educational Technology |
| 22. | Health and Physical Education |
| 23. | Artificial Intelligence in Education |
| 24. | Special Education (Intellectual Impairments) |
| 25. | Special Education (Visual Impairments) |
| 26. | Special Education (Physical Impairments) |
| 27. | Special Education (Hearing Impairments) |
| 28. | Special Education (Learning Disabilities) |
| 29. | Special Education (Autism Spectrum Disorder) |

Details of Specializations:

Specialization 1: Early Childhood Care and Education (Select any Six Courses)

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| 1. | Child Care and Development |
| 2. | Early Childhood Education: History, Theory & Practice |
| 3. | Early language and Literacy Development |
| 4. | Models of Early Childhood Care and Education |
| 5. | Educational Games at ECE Level |
| 6. | Assessment of Learning in Early Years |
| 7. | Creative Arts and Expression for Early learners |
| 8. | Technology in Early Childhood Education |

Specialization 2: Educational Research (Select any Six Courses)

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| 1. | Data Analysis: Qualitative and Quantitative Techniques |
| 2. | Project Management |
| 3. | Report Writing |
| 4. | Instrument Development |
| 5. | Technology and Tools for Educational Research |
| 6. | Research Methods for Education in the Digital Age |
| 7. | Research Ethics and Professional Writing |
| 8. | Applied Research in Education |

Specialization 3: Educational Assessment (Select any Six Courses)

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| 1. | Test Development |
| 2. | Classroom Assessment Strategies |
| 3. | Alternative Assessment Techniques |
| 4. | Educational Assessment in the Digital Age |
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5. Data-driven Decision Making in Educational Assessment

6. Assessment and Reporting of Students' Learning

7. Technology based Assessment

8. Psychometrics and Standardized Testing

Specialization 4: Child Rights and Safety Education (Select any Six Courses)

1. Child Development and Child Welfare

2. Children's Abuse and Safety

3. Child Protection Law

4. Creating Safe and Inclusive Learning Environments

5. Health Care and Hygienic Safety of Children

6. Child Rights: Global Perspective

7. Developing Safe Schools

8. Child Safety and Wellbeing

Specialization 5: Educational Policy and Planning (Select any Six Courses)

1. Introduction to Policy and Planning

2. Educational Policy and Planning in Pakistan

3. Policy and Planning: Models and Techniques

4. Challenges of Policy Development and Planning

5. Policy and Planning in Comparative Perspective

6. Education Policy and Reform

7. Education Policy and Practice

Specialization 6: Curriculum Studies (Select any Six Courses)

1. Curriculum Planning, Design and Implementation

2. Curriculum Evaluation and Assessment

3. Models of Curriculum

4. Localization and Contextualization of Curriculum

5. Curriculum Change & Innovation

6. Curriculum Adaptation

7. Comparative Curriculum Studies

8. Instructional Materials Development

Specialization 7: Educational Leadership and Management (Select any Six Courses)

1. School Organization and Management

2. Foundations of Educational Leadership

3. Educational Laws and Policies

4. Leadership for Inclusive and Culturally Responsive Schools

5. Human Resource Management in Education

6. Human Relations in Schools

7. Financial Management for School Leaders

8. Educational Planning & Financing

Specialization 8: Educational Psychology (Select any Six Courses)

1. Foundations of Education Psychology

2. Social and Emotional Learning

3. Mental Health and Wellbeing in Education

4. Positive Psychology

5. Behavioral Management and Classroom Discipline

6. Cognition and Metacognition

7. Child Development and Learning

8. School Psychology

Specialization 9: Guidance and Counselling (Select any Six Courses)

1. Guidance and Counselling: Theory and Practice

2. Counselling Children in Schools

3. Child Guidance: Theory and Practice

4. Models of Counselling

5. Career Counselling in Schools

6. Mental Health and Wellbeing in Schools

7. Counseling Theories and Techniques

Specialization 10: Inclusive Education (Select any Six Courses)

1. Inclusive Education: Theory and Practice

2. Assessment in Inclusive Education

3. Inclusive School Leadership

4. Inclusive Classroom Pedagogies

5. Creating Inclusive Schools

6. Comparative Perspectives of Inclusive Education

7. Instructional Adaptation for Inclusion

Specialization 11: Literacy and Non-Formal Education (Select any Six Courses)

1. Introduction to Literacy and Non-Formal Education

2. Approaches and Methods of Non-Formal Education

3. Global Practices for Literacy and Non-Formal Education

4. Non-Formal Education and Innovative Teaching Strategies

5. Designing Literacy Programs for Marginalized Groups

6. Foundations of Literacy

7. Digital Literacy for Education

Specialization 12: Online and Distance Education (Select any Six Courses)

1. Instructional Design for Online Learning

2. Theories and Models of Distance Education

3. Technology Tools and Platforms for Distance Learning

4. Pedagogy and Best Practices in Online Teaching

5. Leadership in E-Learning and Distance Education

6. Designing and Implementing e-Learning

7. Distance Education: Global Challenges and Trends

Specialization 13: Quality Assurance in Education (Select any Six Courses)

1. Fundamentals of Quality Management

2. Total Quality Management in Education

3. Quality Tools and Techniques for Schools

4. Quality Control and Inspection of Schools

5. Quality Auditing in Schools

6. Introduction to Quality Assurance in Education

7. Managing Educational Quality

Specialization 14: Comparative Education (Select any Six Courses)

1. Models of Comparative Education

2. Education in Muslim World: Comparative Perspective

3. Education in Developed World: Comparative Perspective

4. Global Education: Trends and Challenges
5. Educational Effectiveness and Ineffectiveness
6. Introduction to Comparative and International Education
7. Education and Social Change: Comparative Perspective

Specialization 15: Teacher Professional Development (Select any Six Courses)

1. Teacher Education Theories and Models
2. Teacher Education in Pakistan: Historical Perspective
3. Teacher Education in Islamic Perspective
4. Teacher Education in Global Perspective
5. Teacher Education: Problems and Prospects
6. Professional Development for Teachers
7. Transforming Teacher Learning with Technology

Specialization 16: Mathematics Education (Select any Six Courses)

1. Calculus
2. Plane Curves & Analytical geometry
3. Vectors & Mechanics
4. Linear Algebra and Ordinary Differential Equations
5. Metric Spaces & Group Theory
6. Mathematical Thinking and Learning
7. Mathematics Education in 21st Century

Specialization 17: STEM Education (Select any Six Courses)

1. Instructional Scaffolding in STEM Education
2. Integrating STEM Education Methods
3. Introduction to STEM Education
4. STEM Curriculum Design and Instructional Materials
5. Learning in STEM
6. Innovative STEM Education
7. Technology in STEM Education

Specialization 18: Islamic Education (Select any Six Courses)

1. Islamic Pedagogy and Teaching Methods
2. Foundations of Islamic Education
3. Quranic Teachings and Modern World
4. Islamization of Education
5. Seerat Un Nabi (PBUH)
6. Islamic Education Leadership and School Management
7. Comparative Islamic and Western Education Systems

Specialization 19: Education for Sustainable Development (Select any Six Courses)

1. Principles and Practices of Education for Sustainable Development
2. Global Citizenship Education and Sustainability
3. Change Management for Sustainable Development
4. Global Challenges and Sustainable Futures
5. Community Engagement and Sustainable Development
6. Foundations of Education for Sustainable Development
7. Sustainability and Development Education

Specialization 20: Educational Entrepreneurship (Select any Six Courses)

1. Foundations of Educational Entrepreneurship

2. Design Thinking for Education Innovation
3. Building and Scaling Educational Ventures
4. Education Technology and Entrepreneurship
5. Social Entrepreneurship in Education
6. Leadership and Educational Entrepreneurship
7. Educational Entrepreneurship: Innovation in Learning

Specialization 21: Educational Technology (Select any Six Courses)

1. Instructional Design and Technology
2. Emerging Technologies in Education
3. Learning Analytics and Educational Data
4. Mobile and Online Learning Development
5. Learning Management Systems (LMS) and E-Learning Tools
6. Digital Teaching and Learning
7. Gamification and Interactive Learning

Specialization 22: Health and Physical Education (Select any Six Courses)

1. Foundations of Health and Physical Education
2. Kinesiology and Exercise Science
3. Health Education and Wellness Promotion
4. Sports Coaching and Pedagogy
5. Inclusive Physical Education
6. Teaching Health Education in Schools
7. Physical Education for 21st Century Schools

Specialization 23: Artificial Intelligence in Education (Select any Six Courses)

1. Introduction to Artificial Intelligence in Education
2. Artificial Intelligence in Schools
3. Artificial Intelligence for Teachers and Education Leaders
4. Artificial Intelligence Supported Educational Technologies
5. Artificial Intelligence in Education: Ethics and Impacts
6. Future Trends and Innovations in AI for Education
7. Artificial Intelligence Powered Learning Tools and Platforms

Specialization 24: Special Education (Intellectual Impairments) (Select any Six Courses)

1. Introduction to Intellectual and Developmental Disabilities
2. Teaching Children with Intellectual and Developmental Disabilities
3. Transition Planning for Students with IDD
4. Assessment Practices for Intellectual and Developmental Disability
5. Functional and Independent Living Skills for Children with IDD
6. Behavior Management of Children with IDD
7. Assistive Technologies for Students with IDD

Specialization 25: Special Education (Physical Impairments) (Select any Six Courses)

1. Teaching Children with Physically Impairment
2. Assistive Technologies for Children with Physical and Health Impairment
3. Etiology of Physical and Health Impairment
4. Curriculum Development in Physical Education
5. Management of Physical and Health Impairment
6. Educational Adaptation for Children with Physical and Health Impairment
7. Accessible Learning Environment for Children with Physical and Health Impairment

Specialization 26: Special Education (Hearing Impairments) (Select any Six Courses)

1. Teaching Children with Hearing Impairment
2. Assistive Technologies for Children with Hearing Impairment
3. Sign Language
4. Audiology and Hearing Disorder
5. Speech and Language Development
6. Inclusion and Accessibility for Deaf and Hard-of-Hearing Students
7. Cognitive and Social-Emotional Development in Deaf Children

Specialization 27: Special Education (Visual Impairments) (Select any Six Courses)

1. Teaching Children with Visual Impairments
2. Assistive Technologies for Children with Visual Impairments
3. Braille Literacy, Tactile and Digital Learning for Blind Students
4. Etiology of Visual Impairments
5. Orientation and Mobility Skills for Visual Impairments
6. Cognitive and Social-Emotional Development in Children with Visual Impairments
7. Inclusive Education and Accessibility for Students with Visual Impairments

Specialization 28: Special Education (Learning Disabilities) (Select any Six Courses)

1. Teaching Children with Learning Disabilities
2. Assistive Technologies and Digital Learning for Children with Learning Disabilities
3. Etiology of Learning Disabilities
4. Intervention and Assessment of Learning Disabilities
5. Cognitive and Neurodevelopmental Approaches to Learning Disabilities
6. Instructional and Management Strategies for Learning Disabilities
7. Behavioral and Emotional Regulation Strategies for Students with Learning Disabilities

Specialization 29: Special Education (Autism Spectrum Disorders) (Select any Six Courses)

1. Teaching Children with Autism Spectrum Disorders
 2. Assistive Technologies and Communication Strategies for Children with Autism Spectrum Disorders
 3. Autism Spectrum Disorders: Nature, Needs and Etiology
 4. Assessment of Children with Autism Spectrum Disorder
 5. Neuroscience and Autism: Understanding the Brain
 6. Therapeutics Interventions in Autism Spectrum Disorder
 7. Social-Emotional Learning and Autism: Strategies for Inclusion
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