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## PEO, PO and PSO of M.Sc. Ag. (Genetics & Plant Breeding)

### Programme Education Objectives (PEOs)

**PEO 1.** To produce human resource equipped with the latest knowledge of various breeding practices and techniques of different crops.

**PEO 2.** To train the post graduate students with scientific skills to transform the genetic makeup of plants for better biotic and abiotic stresses and quality, maintaining the genetic stock and finding the new genetic resources.

**PEO 3.** To educate the post graduate students about development of hybrid seed production, in bred line and evaluation of germplasm.

**PEO 4.** To prepare the students with scientific knowledge about crop quality improvement using conventional and modern biotechnological tools *viz*, Marker Assisted Selection, Tissue culture and Transgenic approaches.

### PROGRAMME OUTCOMES (POs)

**PO 1.** To provide holistic exposure on agriculture based knowledge of Genetics and Plant Breeding in different crops.

**PO 2.** The student will know the different plant reproduction systems, genetic variability and strategies of selection and breeding.

**PO 3.** To provide knowledge dissemination regarding various techniques of advance and innovative research related to genetics and plant breeding.

**PO 4.** To make students competitive in pursuing higher studies in Agriculture field.

**PO 5.** To impart in-depth practical knowledge in germplasm screening, development of In-bred line and hybridization techniques of various crops.

### PROGRAM SPECIFIC OUTCOMES (PSO)

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**PSO 1.** To impart in-depth practical knowledge regarding Genetics & Plant Breeding for cultivation of different crops

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- PSO 2.** To understand and analyze the current issues that are occurring in local and global agriculture and how they will affect futuristic agriculture
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- PSO 3.** To build the scientific skilled manpower for serving the community especially for rural areas
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- PSO 4.** To identify and develop the resistance or improved variety to particular area
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- PSO 5.** To get blended knowledge related to genetics and breeding practices for the cultivation of different crops growing from ancient to modern agricultural
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- PSO 6.** This program will provide opportunities for students to understand the major constraints of crop production and their solutions
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- PSO 7.** To provide the knowledge and importance of identifying genes, isolating them, determining their function and controlling their expression in different crops at different field area.
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