

<b>Project Title- 9</b>	<b>Development of functional spacer fabrics for medical inlays in orthopedic shoes</b>
<b>Principal Investigator</b>	Dr.K.P.Chellamani
<b>Cost</b>	Rs.20.00 lakhs
<b>Date of Commencement</b>	01.01.2009
<b>Duration</b>	24 Months
<b>Date of Completion</b>	31.12.2010
<b>Abstract</b>	<p>The aim of this project was the development of functional three-dimensional knitted textile structures with a user-defined construction and antimicrobial finishing which are predestined for use in shoes. For the research work the technological potential of the raschel technique will be used.</p> <p>3D knitted spacer fabrics in combination with other padding materials have many positive features which make them an interesting material for the direct contact with the foot.</p> <p>Hence, it is planned to develop three dimensionally knit spacer fabrics and study their suitability as a shoe-inlay for orthopedic patients.</p>
<b>Highlights</b>	<p>To develop 3 D spacer fabrics as a base material for shoe-inlays, particularly for orthopedic patients</p> <p>Identification and application of appropriate anti microbial finishes to these show-inlays</p>
<b>Area of applicability</b>	Medical textile
<b>Target beneficiaries</b>	Knitting Industries
<b>Status</b>	Ongoing