

APPLIED MATHEMATICS 673 "APPROXIMATION THEORY"

Calendar Description: H(3-0)

Existence, uniqueness of minimal solutions, Haar systems, characterization by alternation, Remez algorithm, monotone operators, spline approximation.

Prerequisite: Applied Mathematics 491 and Pure Mathematics 435.

Syllabus

<u>Topics</u>	<u>Time</u>
Polar forms of univariate polynomials	6
Spline curves via polar forms	3
B-splines via polar forms	6
Polar forms of multivariate polynomials	3
Spline surfaces via polar forms	3
Polyhedral splines	6
Box splines basics	6
Subdivision methods based on box splines	<u>3</u>
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